



TEST REPORT

Report No.....: : WTF22D10214191R1Y002

Applicant.....: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer : 114628

Address.....: --

Product.....: Wireless mouse

Model(s): MO8827, MO8412, MO9747

Total pages.: 69 pages and 4 pages of photo.

Standards.....: EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment -

Part 1:Safety requirements

Date of Receipt sample : 2022-10-28

Date of Test..... : 2022-10-28 to 2022-11-21

Date of Issue.....: 2022-12-26

Test Result.....: : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City,

Guangdong, China Tel: +86-769-2267 6998 Fax: +86-769-2267 6828

Compiled by:

Approved by:

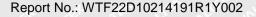
Lucas Cao / Project Engineer

Sam Qi / Designated Reviewer



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| The state of the s | THE THE THE STATE WALL WALL |
|--|---|
| Test Item description Wireless m | ouse and the same |
| Trade Mark(s) MOB | EX TEX LITER DUTER WILLE WALLE WHILE |
| Model/Type reference MO8827, N | 1O8412, MO9747 |
| Ratings | |
| Remark: Whether parts of tests for the product have been subcon Yes No If Yes, list the related test items and lab information: Test items: Lab information: | tracted to other labs: |
| Summary of testing: | e the text the title mit intil o |
| Tests performed (name of test and test clause): - EN IEC 62368-1:2020+A11:2020 The submitted samples were found to comply with the requirements of above specification. | Testing location: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China |
| Summary of compliance with National Differences (List of countries addressed: National Differences and Gohecked. | Group Differences for CENELEC countries were |
| ☐ The product fulfils the requirements of EN IEC 6236 | 8-1:2020+A11:2020. |
| | ndard. The decisions on conformity are made |
| requirements apply) | |
| Information on uncertainty of measurement: The uncertainties of measurement are calculated by the OD-5014 for test equipment and application of test met IECEE. | |
| IEC Guide 115 provides guidance on the application of the decision rule when reporting test results within IECE measurement uncertainty for measurements is not necessity. | EE scheme, noting that the reporting of the |
| Calculations leading to the reported values are on file withe testing. | vith the NCB and testing laboratory that conducted |
| White man man and | ex tex itex street mater and the suntil |





Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.





Frequency range: 2402-2480MHz Maximum RF power: 10mW(EIRP)

PO 41-108240





Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- 2. The CE, UKCA marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



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| Test item particulars: | | |
|--|---|--|
| Product group: | | |
| Classification of use by: | | |
| | ☐ Instructed person | |
| | ☐ Skilled person | |
| Supply connection: | ☐ AC mains ☐ DC mains | |
| | ☐ not mains connected: | |
| Supply tolerance: | ☐ ES1 ☐ ES2 ☐ ES3 ☐ ES3 | |
| Supply tolerance | +20%/-15% | |
| | | |
| | None | |
| Supply connection – type: | pluggable equipment type A - | |
| | non-detachable supply cord | |
| | appliance coupler | |
| | direct plug-in | |
| | pluggable equipment type B - | |
| | non-detachable supply cord | |
| | appliance coupler permanent connection | |
| | | |
| ☐ permanent connection ☐ mating connector ☐ other: not Mains connected Considered current rating of protective device ☐ UK: 13 A; Others: 16 A | | |
| | Location: Duilding equipment | |
| | N/A Street Stre | |
| Equipment mobility:: | | |
| | wall/ceiling-mounted SRME/rack-mounted | |
| | other: | |
| Overvoltage category (OVC): | | |
| THE STEEL WITE SHITE MALL MALL | OVC IV Sometime of Mains connected | |
| Class of equipment:: | ☐ Class II ☐ Class III ☐ Class III ☐ Class III ☐ Class III ☐ Not classified ☐ | |
| Special installation location: | N/A ☐ restricted access area | |
| | outdoor location | |
| Pollution degree (PD): | □ PD 1 □ PD 3 | |
| Manufacturer's specified T _{ma} : | 45°C Outdoor: minimum°C | |
| IP protection class: | ☑ IPX0 | |
| Power systems: | □TN □TT □ITV L-L | |
| THE THE LIFE WITH MITE WALL W | not Mains connected | |
| Altitude during operation (m): | ☑ 2000 m or less ☐ _5000_m | |
| Altitude of test laboratory (m): | | |
| Mass of equipment (kg): | Approximately: 0.047kg | |



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| Possible test case verdicts: | t itel nite inite whit was and we |
|--|--|
| - test case does not apply to the test object: | N/A |
| - test object does meet the requirement: | P (Pass) |
| - test object does not meet the requirement: | F (Fail) |
| Testing: | lite and my and and the |
| Date of receipt of test item: | 2022-10-28 |
| Date (s) of performance of tests: | 2022-10-28 to 2022-11-21 |
| General remarks: | The the state of |
| "(see Enclosure #)" refers to additional information "(see appended table)" refers to a table appended | |
| Throughout this report a \square comma / \boxtimes point | is used as the decimal separator. |
| General Product Information: | The state of the state of |
| Product Description: | of other write out to make my a |
| The EUT covered by this report is a Wireless n internal dry battery. | mouse used as information apparatus. It is supplied by |
| 2. The manufacturer specified maximum ambient | temperature is 45°C. |
| 3. The specified altitude is up to and including 20 | 00 m above sea level. |
| Description of changes: | |
| This report was based on original report WTF22D | 10214191Y002, including following changes: |
| 1. Delete the model MO9785. | |
| 2. Change the test model MO9785 to MO8827. | |
| No additional testing is required for above chan | ges. |
| Model Differences | LEK TEK TEK TEK TEK MITE MITE MITE |
| 1. All these models are same as each other only e | except for the model name, appearance in colour. |
| 2. The model MO8827 was selected for all testing | The let test the street outles south |
| All these models are same as each other only of the model MO8827 was selected for all testing Additional application considerations N/A | |

| OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS | | | | |
|---|----------------------------|------------|---------|-------|
| Clause | Possible Hazard | ne m | . Zu. ~ | at at |
| 5 | Electrically-caused injury | | | |
| Class and Energy Source | Body Part | Safeguards | | |
| (e.g. ES3: Primary circuit) | (e.g. Ordinary) | В | S | R |
| Ordinary person | ES1: All circuit | N/A | N/A | N/A |
| 6 | Electrically-caused fire | | | |
| Class and Energy Source | Material part | Safeguards | | |



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| (e.g. PS2: 100 Watt circuit) | (e.g. Printed board) | В | 1 st S | 2 nd S |
|--------------------------------|------------------------------|---------------------------------------|-------------------|-------------------|
| All components/materials | PS1: All circuit | N/A | N/A | N/A |
| 7 | Injury caused by hazardous s | Injury caused by hazardous substances | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. Ozone) |) (e.g., Skilled) | | S | R |
| N/A | N/A | N/A | N/A | N/A |
| 8 | Mechanically-caused injury | | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. MS3: Plastic fan blades) | (e.g. Ordinary) | В | S | R |
| MS1: Mass of the unit <7kg | Ordinary | N/A | N/A | N/A |
| MS1: Smooth Edges and corners | Ordinary | N/A | N/A | N/A |
| 9 | Thermal burn | | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. TS1: Keyboard caps) | (e.g., Ordinary) | В | S | R |
| TS1: Plastic enclosure | Ordinary | N/A | N/A | N/A |
| TS3: Internal parts/circuits | Ordinary | N/A | N/A | Enclosure |
| 10 | Radiation | | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. RS1: PMP sound output) | (e.g., Ordinary) | В | S | R |
| RS1: LED for indicating | Ordinary | N/A | N/A | N/A |

Supplementary Information:

"B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard

Indicate which energy sources are included in the energy source diagram. Insert diagram below

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS See details in ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE



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| 711 | EN. | IEC 62368-1 | The An |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 4 | GENERAL REQUIREMENTS | | | |
|---------|--|--|-------------------------|--|
| 4.1.1 | Acceptance of materials, components and subassemblies | (See appended table 4.1.2) | P | |
| 4.1.2 | Use of components | Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G | P WALLER A | |
| 4.1.3 | Equipment design and construction | Evaluation of safeguards regarding preventing access to ES3 parts, limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered. | PIN WALTER WALTER | |
| 4.1.4 | Specified ambient temperature for outdoor use (°C) | Indoor use only | | |
| 4.1.5 | Constructions and components not specifically covered No constructions and components. | | N/A | |
| 4.1.8 | Liquids and liquid filled components (LFC) | No such parts. | N/A | |
| 4.1.15 | Markings and instructions | (See Annex F) | ďΡ | |
| 4.4.3 | Safeguard robustness | See below | Р | |
| 4.4.3.1 | General | let life alien wife and | Pul | |
| 4.4.3.2 | Steady force tests | (See Annex T.2 T.4and T.5). | Р | |
| 4.4.3.3 | Drop tests | (See Annex T.7) | Р | |
| 4.4.3.4 | Impact tests | (See Annex T.6) | Р | |
| 4.4.3.5 | Internal accessible safeguard tests The external enclosure cannot be opened without damaging the product. | | N/A | |
| 4.4.3.6 | Glass impact tests | No such glass used. | N/A | |
| 4.4.3.7 | Glass fixation tests | No such parts. | N/A | |
| LUEL | Glass impact test (1J) | At let 18th 18 | N/A | |
| 40, | Push/pull test (10 N) | and and and and | N/A | |
| 4.4.3.8 | Thermoplastic material tests | (See Annex T.8) | Р | |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|----------|---|---|-----------|
| 10. | the set set set see south and | Mr. Mr. M. A. | 7.6 |
| 4.4.3.9 | Air comprising a safeguard | LET TEX STEEL STEEL | N/A |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness | After tests of 4.4.3.2, 4.4.3.3, 4.4.3.4and 4.4.3.8, no safeguard damaged. Class 3 energy sources do not become accessible to an ordinary person or to an instructed person and all other safeguards do remain effective. | ETEX VIDE |
| 4.4.4 | Displacement of a safeguard by an insulating liquid | No such liquid. | N/A |
| 4.4.5 | Safety interlocks | No such parts. | N/A |
| 4.5 | Explosion | THE WALL MALL WAS AN | Р |
| 4.5.1 | General No explosion occurs during normal/abnormal operation and single fault conditions | | P.TE |
| 4.5.2 | No explosion during normal/abnormal operating condition | (See Clause B.2, B.3) | M P |
| ver and | No harm by explosion during single fault conditions | (See Clause B.4) | P |
| 4.6 | Fixing of conductors | See below | P |
| 211 | Fix conductors not to defeat a safeguard | mer mer me m | Р |
| MITER | Compliance is checked by test | (See Clause T.2) | Р |
| 4.7 | Equipment for direct insertion into mains socket | -outlets | N/A |
| 4.7.2 | Mains plug part complies with relevant standard: | LIEK MITER WHITE WHITE | N/A |
| 4.7.3 | Torque (Nm) | | N/A |
| 4.8 | Equipment containing coin/button cell batteries | ite, while auti, auti, an | N/A |
| 4.8.1 | General | the text step act | N/A |
| 4.8.2 | Instructional safeguard | Mur. Mur. Mu. An. | N/A |
| 4.8.3 | Battery compartment door/cover construction | THE STEE STIEF MITTER | N/A |
| - t | Open torque test | Mr. M. M. | N/A |
| 4.8.4.2 | Stress relief test | LIER WHITE WHITE WHITE W | N/A |
| 4.8.4.3 | Battery replacement test | a the state of | N/A |
| 4.8.4.4 | Drop test | must mer mer me | N/A |
| 4.8.4.5 | Impact test | At the title still | N/A |
| 4.8.4.6 | Crush test | Mr. Mr. M. M. | N/A |
| 4.8.5 | Compliance | TEX TEX TEX STEE | N/A |



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| | EN IEC (| 52368-1 | |
|---------|--|--|--------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| 100 | The state of the state was | ic mi mur mur m. | * |
| alter 1 | 30N force test with test probe | A ALL THE THE | N/A |
| | 20N force test with test hook | min hur my a | N/A |
| 4.9 | Likelihood of fire or shock due to entry | of conductive object | N/A |
| 4.10 | Component requirements | Mr. Mr. M. M. | N/A |
| 4.10.1 | Disconnect Device | LIER ALIE MILE MILE WALLE | N/A |
| 4.10.2 | Switches and relays | The state of the s | N/A |

| 5 | ELECTRICALLY-CAUSED INJURY | | P |
|------------|---|---|----------------|
| 5.2 | Classification and limits of electrical energy sources | | |
| 5.2.2 | ES1, ES2 and ES3 limits | et liet oliet onlied | P |
| 5.2.2.2 | Steady-state voltage and current limits | (See appended table 5.2) | P |
| 5.2.2.3 | Capacitance limits | No capacitance | N/A |
| 5.2.2.4 | Single pulse limits | No single pulse introduced | N/A |
| 5.2.2.5 | Limits for repetitive pulses | No repetitive pulses introduced | N/A |
| 5.2.2.6 | Ringing signals | No such ringing signals within the EUT | N/A |
| 5.2.2.7 | Audio signals | No audio signals used | N/A |
| 5.3 | Protection against electrical energy sources | | Р |
| 5.3.1 | General Requirements for accessible parts to ordinary, instructed and skilled persons | See only 4.3 and 5.3 to 5.5 which applies to protection between the accessible parts and hazardous parts of other circuits. | NITEK NITEK |
| 5.3.1 a) | Accessible ES1/ES2 derived from ES2/ES3 circuits | et let liet liet o | P |
| 5.3.1 b) | Skilled persons not unintentional contact ES3 bare conductors | et the its ri | N/A |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | Only ES1 circuit can be accessed for this product | P |
| 20, 21 | Accessibility to outdoor equipment bare parts | Mrs. Mur. My. My | N/A |
| 5.3.2.2 | Contact requirements | TEX TEX STEX SUTES | N/A |
| | Test with test probe from Annex V | ha ma man | - |
| 5.3.2.2 a) | Air gap – electric strength test potential (V) | SEX CUTER WITE WAITE WAY | N/A |
| 5.3.2.2 b) | Air gap – distance (mm) | a state of the | N/A |
| 5.3.2.3 | Compliance | Write Muri Muri Muri | N/A |
| 5.3.2.4 | Terminals for connecting stripped wire | at at let let | N/A |



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| ALL MICH | we we we we | EN IEC 62368-1 | FER WALLER AND THE | MULLE MIL | 1/1/1/ |
|----------|--------------------|----------------|--------------------|-----------|---------|
| Clause | Requirement + Test | Mr. A. EX | Result - Remark | LIEK RITE | Verdict |

| 5.4 | Insulation materials and requirements | | P |
|-------------|---|--|------|
| 5.4.1.2 | Properties of insulating material | No insulation as a safeguard. | N/A |
| 5.4.1.3 | Material is non-hygroscopic | TEX LIEX NUTER MUTER OF | N/A |
| 5.4.1.4 | Maximum operating temperature for insulating materials: | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | EK P |
| 5.4.1.5 | Pollution degrees: | PD2 considered | Р |
| 5.4.1.5.2 | Test for pollution degree 1 environment and for an insulating compound | MALTER MALTER MALTER WALTER | N/A |
| 5.4.1.5.3 | Thermal cycling test | LIER OLIER WALTER WALTER | N/A |
| 5.4.1.6 | Insulation in transformers with varying dimensions | e st st set | N/A |
| 5.4.1.7 | Insulation in circuits generating starting pulses | er write auty aus au | N/A |
| 5.4.1.8 | Determination of working voltage | . At the the th | N/A |
| 5.4.1.9 | Insulating surfaces | the me me | N/A |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | MITER WHITE WALLER WALTER | N/A |
| 5.4.1.10.2 | Vicat test | ALL STEEL ST | N/A |
| 5.4.1.10.3 | Ball pressure test | The state of | N/A |
| 5.4.2 | Clearances | MITE WALL WALLE WA | N/A |
| 5.4.2.1 | General requirements | A A A A A | N/A |
| Alle A | Clearances in circuits connected to AC Mains, Alternative method | WHITE WILL WAS THE | N/A |
| 5.4.2.2 | Procedure 1 for determining clearance | HILL WHITE WHIT WILL | N/A |
| TEX NITE | Temporary overvoltage | at at let let let | _ |
| 5.4.2.3 | Procedure 2 for determining clearance | Mary Mary Mary My | N/A |
| 5.4.2.3.2.2 | a.c. mains transient voltage | - LIER NITER MITER MALT | _ |
| 5.4.2.3.2.3 | d.c. mains transient voltage: | The The Table 18th | _ |
| 5.4.2.3.2.4 | External circuit transient voltage | WITE MILITER MILITE MINIS | _ |
| 5.4.2.3.2.5 | Transient voltage determined by measurement: | et et tet tet | _ |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test | of the text the | N/A |
| 5.4.2.5 | Multiplication factors for clearances and test voltages | which will all the | N/A |
| 5.4.2.6 | Clearance measurement: | anti mri mri mi | N/A |
| 5.4.3 | Creepage distances | A 18 18 58 | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------|---|----------------------|---------|
| Cidado | Troquioment (Trock | Troodic Tromain | Volume |
| 5.4.3.1 | General | at all life | N/A |
| 5.4.3.3 | Material group | every men men | _ |
| 5.4.3.4 | Creepage distances measurement | TEX LIEK NITE IN | N/A |
| 5.4.4 | Solid insulation | 111 11 | N/A |
| 5.4.4.1 | General requirements | e white white white | N/A |
| 5.4.4.2 | Minimum distance through insulation | at at at | N/A |
| 5.4.4.3 | Insulating compound forming solid insulation | MULL MULL MULL | N/A |
| 5.4.4.4 | Solid insulation in semiconductor devices | TEX TEX STEEL O | N/A |
| 5.4.4.5 | Insulating compound forming cemented joints | 1 5 Mr. 20, 20, | N/A |
| 5.4.4.6 | Thin sheet material | TEX NITER WITER WALL | N/A |
| 5.4.4.6.1 | General requirements | The second second | N/A |
| 5.4.4.6.2 | Separable thin sheet material | WILL MALL WALL | N/A |
| LIFE . | Number of layers (pcs): | at at the | N/A |
| 5.4.4.6.3 | Non-separable thin sheet material | mr. Mur. Mur. A | N/A |
| NITER NALL | Number of layers (pcs) | LIFE OF STEEL OF | N/A |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material | | N/A |
| 5.4.4.6.5 | Mandrel test | Mr. My M | N/A |
| 5.4.4.7 | Solid insulation in wound components | ALTER INLIER MALTER | N/A |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V) | TEX STEEL STEEL OF | N/A |
| ITEK WALTE | Alternative by electric strength test, tested voltage (V), K _R | Et liet sliet mi | N/A |
| 5.4.5 | Antenna terminal insulation | W 4 12 | N/A |
| 5.4.5.1 | General | I WILL MALLE WALLE | N/A |
| 5.4.5.2 | Voltage surge test | at at let | N/A |
| 5.4.5.3 | Insulation resistance (M Ω): | mer mer mer | N/A |
| NUTER NIVE | Electric strength test | TER TER STEEL OF | N/A |
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard | et text rest with | N/A |
| 5.4.7 | Tests for semiconductor components and for cemented joints | Who will the | N/A |
| 5.4.8 | Humidity conditioning | whi the the | N/A |



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| EN IEC 62368-1 | | | |
|----------------|--|-------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | D. I. (1) (1) (1) (1) (2) (1) (1) (1) | The Mr. M. | |
| MUTTE MUT | Relative humidity (%), temperature (°C), duration (h) | NITER WHITER WHITER WAS | |
| 5.4.9 | Electric strength test | at at all of | N/A |
| 5.4.9.1 | Test procedure for type test of solid insulation: | i me me m | N/A |
| 5.4.9.2 | Test procedure for routine test | t the steet street | N/A |
| 5.4.10 | Safeguards against transient voltages from external circuits | TEX STEX SITEX | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | m m m | N/A |
| 5.4.10.2 | Test methods | LIER SLIER WALTER WALT | N/A |
| 5.4.10.2.1 | General | in the set | N/A |
| 5.4.10.2.2 | Impulse test | ET MITE WALL MAD | N/A |
| 5.4.10.2.3 | Steady-state test | at let let | N/A |
| 5.4.10.3 | Verification for insulation breakdown for impulse test | Murral Mar Mar A | N/A |
| 5.4.11 | Separation between external circuits and earth | Will all all all | N/A |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | CH WILLEY WALT | N/A |
| 5.4.11.2 | Requirements | THE LITTLE | N/A |
| LITEK | SPDs bridge separation between external circuit and earth | WALL TEX TEX | N/A |
| 4, 7 | Rated operating voltage U _{op} (V) | Mr. M. M. M. | _ |
| unities whi | Nominal voltage U _{peak} (V) | JEX STEX MITER ON | |
| et di | Max increase due to variation ΔU _{sp} : | | _ |
| The Think | Max increase due to ageing ΔU _{sa} | IET WALLE WALLE WALL | 2/1 |
| 5.4.11.3 | Test method and compliance: | - Et TET JET | N/A |
| 5.4.12 | Insulating liquid | men men men | N/A |
| 5.4.12.1 | General requirements | TER STEE STEE AN | N/A |
| 5.4.12.2 | Electric strength of an insulating liquid: | We have the second | N/A |
| 5.4.12.3 | Compatibility of an insulating liquid | LIET WILL MILE MILE | N/A |
| 5.4.12.4 | Container for insulating liquid: | a st set tell | N/A |
| 5.5 | Components as safeguards | MULL MULL MULL | N/A |
| 5.5.1 | General | TEX TEX LIER | N/A |
| 5.5.2 | Capacitors and RC units | me me me | N/A |
| 5.5.2.1 | General requirement | THE LIFE WITE W | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|---------|---|---------------------------------------|-------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.5.2.2 | Safeguards against capacitor discharge after disconnection of a connector | NUTER WALTER WALLER | N/A |
| 5.5.3 | Transformers | at at let i | N/A |
| 5.5.4 | Optocouplers | The Me Me | N/A |
| 5.5.5 | Relays | t TEX TEX WITE | N/A |
| 5.5.6 | Resistors | 111 111 111 | N/A |
| 5.5.7 | SPDs | NITES MITES WALLES | N/A |
| 5.5.8 | Insulation between the mains and an external circuit consisting of a coaxial cable: | ster with writer | N/A |
| 5.5.9 | Safeguards for socket-outlets in outdoor equipment | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| 1/1/2 | RCD rated residual operating current (mA) | E WILL MILL MILL | nu – |
| 5.6 | Protective conductor | t let tet tet | N/A |
| 5.6.2 | Requirement for protective conductors | Aller Alex Alex | N/A |
| 5.6.2.1 | General requirements | TEX STEE WITER | N/A |
| 5.6.2.2 | Colour of insulation | 11. 11. | N/A |
| 5.6.3 | Requirement for protective earthing conductors | THE WALL WAS | N/A |
| ek lie | Protective earthing conductor size (mm²) | - 10 A | <i>-</i> ال |
| - TEX | Protective earthing conductor serving as a reinforced safeguard | Mer Mer Mer | N/A |
| All A | Protective earthing conductor serving as a double safeguard | must met met | N/A |
| 5.6.4 | Requirements for protective bonding conductors | RETER WHETE WALL W | N/A |
| 5.6.4.1 | Protective bonding conductors | et set set s | N/A |
| 1 14 | Protective bonding conductor size (mm²) | me me m | _ |
| 5.6.4.2 | Protective current rating (A) | - LIER NITER MATE | N/A |
| 5.6.5 | Terminals for protective conductors | 211 21 | N/A |
| 5.6.5.1 | Terminal size for connecting protective earthing conductors (mm) | unite unit water | N/A |
| rr un | Terminal size for connecting protective bonding conductors (mm) | THE WITE WITE WA | N/A |
| 5.6.5.2 | Corrosion | A WILL NULL MULL | N/A |
| 5.6.6 | Resistance of the protective bonding system | * * * | N/A |
| 5.6.6.1 | Requirements | White Mri Mri | N/A |
| 5.6.6.2 | Test Method | A St St | N/A |



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| 40, | EN IEC 62368-1 | | | | |
|--------------|---|-----------------------------|---------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |
| 5.6.6.3 | Resistance (Ω) or voltage drop: | A LET LET LED | N/A | | |
| 5.6.7 | Reliable connection of a protective earthing conductor | A CA LEA TEX | N/A | | |
| 5.6.8 | Functional earthing | Till mill mill mill | N/A | | |
| E MITE | Conductor size (mm²) | E - LIEN SLIEN MITER ON | N/A | | |
| | Class II with functional earthing marking | Mr. Mr. St. | N/A | | |
| AND A | Appliance inlet cl & cr (mm) | CLIEF WILL WALTE WALTE | N/A | | |
| 5.7 | Prospective touch voltage, touch current and pr | otective conductor current | N/A | | |
| 5.7.2 | Measuring devices and networks | NUTTER MUTTER MUTTER MUTTER | N/A | | |
| 5.7.2.1 | Measurement of touch current | It let the street | N/A | | |
| 5.7.2.2 | Measurement of voltage | my my m | N/A | | |
| 5.7.3 | Equipment set-up, supply connections and earth connections | WALLER WALLER WALLER WAL | N/A | | |
| 5.7.4 | Unearthed accessible parts | THE LIE OUTER MITE | N/A | | |
| 5.7.5 | Earthed accessible conductive parts | | N/A | | |
| 5.7.6 | Requirements when touch current exceeds ES2 limits | Multi Walit | N/A | | |
| Miller | Protective conductor current (mA) | oute while while our | N/A | | |
| t det | Instructional Safeguard | at the set of | N/A | | |
| 5.7.7 | Prospective touch voltage and touch current associated with external circuits | MULLE MILL MULL MULL | N/A | | |
| 5.7.7.1 | Touch current from coaxial cables | WILLE WALL MALL MAN | N/A | | |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables | LIEK WHIEK WHIEK WHIEK | N/A | | |
| 5.7.8 | Summation of touch currents from external circuits | a set set set s | N/A | | |
| OTEK OTEK | a) Equipment connected to earthed external circuits, current (mA) | WHIT WAS AND AND | N/A | | |
| July J | b) Equipment connected to unearthed external circuits, current (mA) | while with the text | N/A | | |
| 5.8 | Backfeed safeguard in battery backed up suppli | es met me m | N/A | | |
| TEK NITE | Mains terminal ES | No battery used | N/A | | |
| 2,, | Air gap (mm): | Mr. Mr. Mr. M | N/A | | |

| 6 | ELECTRICALLY- CAUSED FIRE | P |
|-----|------------------------------|--------|
| 6.2 | Classification of PS and PIS | м Р "и |



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| | EN IEC 62368-1 | Mr. In In. | |
|-----------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.2.2 | Power source circuit classifications | (See appended table 6.2.2) | P |
| 6.2.3 | Classification of potential ignition sources | Only PS1 | N/A |
| 6.2.3.1 | Arcing PIS | TER STER STEEL WITE ST | N/A |
| 6.2.3.2 | Resistive PIS | | N/A |
| 6.3 | Safeguards against fire under normal operating a conditions | nd abnormal operating | Р |
| 6.3.1 | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials | (See appended table B.1.5 and B.3) | WA P |
| A 0 | Combustible materials outside fire enclosure: | in the the things | N/A |
| 6.4 | Safeguards against fire under single fault condition | ons atter mite white we | P |
| 6.4.1 | Safeguard method | Method by control of fire spread applied, Fire enclosure provided. | PIE |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | MILER WHITE WHITE WHITE | N/A |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | MILIE WHITE W | N/A |
| 6.4.3.1 | Supplementary safeguards | E TO LIFE WILL WAY | N/A |
| 6.4.3.2 | Single Fault Conditions | Mr. All All | N/A |
| White . | Special conditions for temperature limited by fuse | OLITER WITE WALTER WALTER | N/A |
| 6.4.4 | Control of fire spread in PS1 circuits | t it it tit | P |
| 6.4.5 | Control of fire spread in PS2 circuits | Only PS1 | N/A |
| 6.4.5.2 | Supplementary safeguards | et set set stet w | N/A |
| 6.4.6 | Control of fire spread in PS3 circuits | Only PS1 | N/A |
| 6.4.7 | Separation of combustible materials from a PIS | - sites outer write write | N/A |
| 6.4.7.2 | Separation by distance | an a st st | N/A |
| 6.4.7.3 | Separation by a fire barrier | INLIE WALTE WALL WALL | N/A |
| 6.4.8 | Fire enclosures and fire barriers | Only PS1,no fire enclosures and barriers required | N/A |
| 6.4.8.2 | Fire enclosure and fire barrier material properties | a state of | N/A |
| 6.4.8.2.1 | Requirements for a fire barrier | Mury Myr Myr My | N/A |
| 6.4.8.2.2 | Requirements for a fire enclosure | t the the state with | N/A |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | WIN WIN WIN WIN | N/A |



N/A

N/A

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|-----------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | Me an an an | N/A |
| 6.4.8.3.2 | Fire barrier dimensions | WILL MULL AND | N/A |
| 6.4.8.3.3 | Top openings and properties | No openings. | N/A |
| <u> </u> | Openings dimensions (mm) | The the the | N/A |
| 6.4.8.3.4 | Bottom openings and properties | No openings. | N/A |
| - TEX | Openings dimensions (mm) | | N/A |
| 1115 1 | Flammability tests for the bottom of a fire enclosure | WILL MULL MULL MILL | N/A |
| LIFE IN | Instructional Safeguard: | at at the state | N/A |
| 6.4.8.3.5 | Side openings and properties | No openings. | N/A |
| LIEBINLIE | Openings dimensions (mm) | EX LIEX NITER MILES ON | N/A |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c) | THE STEEL STEEL WITE | N/A |
| 6.4.8.4 | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating: | TEX TEX STEX STEX | N/A |
| 6.4.9 | Flammability of insulating liquid | ALL THE THE THE | N/A |
| 6.5 | Internal and external wiring | THE MALIE WALLE | P |
| 6.5.1 | General requirements | the state of | P |
| 6.5.2 | Requirements for interconnection to building wiring | No such wire used | N/A |
| 6.5.3 | Internal wiring size (mm²) for socket-outlets: | MULLER MILLE MULL MULL | N/A |
| 6.6 | Safeguards against fire due to the connection to | additional equipment | N/A |
| 20. 2. | A A A A A A A A A A A A A A A A A A A | We are any | 124 |
| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANCE | | N/A |
| 7.2 | Reduction of exposure to hazardous substances | 71, 24, 2 | N/A |
| 7.3 | Ozone exposure | A WILLER WALLEY WALLE WAS | N/A |
| 7.4 | Use of personal safeguards or personal protective | ve equipment (PPE) | N/A |
| | Personal safeguards and instructions: | WITE WALL WALL MAN | |

| t de | | F 765 |
|------|--|-------|
| 8 | MECHANICALLY-CAUSED INJURY | υP |
| 8.2 | Mechanical energy source classifications | P |

Use of instructional safeguards and instructions

Instructional safeguard (ISO 7010)

Batteries and their protection circuits

7.5

7.6



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| J. m. | The All the All the | EN IEC 62368-1 | TER WALTER WALTER. | alerge alle | - Inc. |
|--------|---------------------|----------------|--------------------|-------------|---------|
| Clause | Requirement + Test | The state of | Result - Remark | LIEK WITE | Verdict |

| | | | 70000 |
|-------------|---|---|-------|
| 8.3 | Safeguards against mechanical energy sources | t at alt alt | P |
| 8.4 | Safeguards against parts with sharp edges and co | orners V | Р |
| 8.4.1 | Safeguards | et let the steel | N/A |
| <u> </u> | Instructional Safeguard | The live all to | N/A |
| 8.4.2 | Sharp edges or corners | The sharp edges and corners of the equipment are considered as MS1. | P |
| 8.5 | Safeguards against moving parts | mr. m. m. m. | N/A |
| 8.5.1 | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts | No moving parts. | N/A |
| The MALIE | MS2 or MS3 part required to be accessible for the function of the equipment | See above. | N/A |
| MILIER | Moving MS3 parts only accessible to skilled person | TER STEE MITE WITH | N/A |
| 8.5.2 | Instructional safeguard: | The same of | N/A |
| 8.5.4 | Special categories of equipment containing moving parts | Wite Write Mile Mile | N/A |
| 8.5.4.1 | General | THE MITTER WATER ON | N/A |
| 8.5.4.2 | Equipment containing work cells with MS3 parts | - L | N/A |
| 8.5.4.2.1 | Protection of persons in the work cell | WILL MULL MULL MU | N/A |
| 8.5.4.2.2 | Access protection override | at let tel tel | N/A |
| 8.5.4.2.2.1 | Override system | Mur Mur Mur Am | N/A |
| 8.5.4.2.2.2 | Visual indicator | THE LIFE NITES WITH | N/A |
| 8.5.4.2.3 | Emergency stop system | the state of | N/A |
| in whi | Maximum stopping distance from the point of activation (m) | THE WALLE WALLE WALLE WA | N/A |
| WALTE | Space between end point and nearest fixed mechanical part (mm) | whilet whilet while whi | N/A |
| 8.5.4.2.4 | Endurance requirements | THE THE THE STIFF | N/A |
| Set I | Mechanical system subjected to 100 000 cycles of operation | And my my my | N/A |
| in m | - Mechanical function check and visual inspection | THE MULL MULL WITH A | N/A |
| IER OLIER | - Cable assembly: | et tet tet atterna | N/A |
| 8.5.4.3 | Equipment having electromechanical device for destruction of media | We the text text text | N/A |
| 8.5.4.3.1 | Equipment safeguards | Mer Mer Mer And | N/A |
| 8.5.4.3.2 | Instructional safeguards against moving parts: | TEX TEX LIFE NITE | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-----------|--|------------------------------|---------|
| Clause | Requirement + Test | Result - Remark | verdict |
| 8.5.4.3.3 | Disconnection from the supply | At the test that | N/A |
| 8.5.4.3.4 | Cut type and test force (N) | With May My May | N/A |
| 8.5.4.3.5 | Compliance | TEX STEX NITER WITER ON | N/A |
| 8.5.5 | High pressure lamps | No high pressure lamps used. | N/A |
| 71/2 | Explosion test | e alter white while whi | N/A |
| 8.5.5.3 | Glass particles dimensions (mm) | at the state state | N/A |
| 8.6 | Stability of equipment | MULL MULL MULL MAN | N/A |
| 8.6.1 | General | MS1: Mass of the unit | N/A |
| | Instructional safeguard | Arr Mr. M. M. | N/A |
| 8.6.2 | Static stability | JEK NITEK MITEK MITEK MA | N/A |
| 8.6.2.2 | Static stability test | The state of the | N/A |
| 8.6.2.3 | Downward force test | WILL MULL MULL WALL | N/A |
| 8.6.3 | Relocation stability | at let let let | N/A |
| 4, 4, | Wheels diameter (mm) | WILL MULL MULL | _ |
| LITE NALI | Tilt test | att Title Miles | N/A |
| 8.6.4 | Glass slide test | 1 1/19 20 20 | N/A |
| 8.6.5 | Horizontal force test | I'm outle while while whi | N/A |
| 8.7 | Equipment mounted to wall, ceiling or other structure | cture | N/A |
| 8.7.1 | Mount means type | MULTER WALL MAD MADE | N/A |
| 8.7.2 | Test methods | Et TET TET STEET | N/A |
| 3, 3, | Test 1, additional downwards force (N) | Mary Mary And Ang Ang | N/A |
| LILE WALK | Test 2, number of attachment points and test force (N) | LIET WHITEK WHITE WHITE WH | N/A |
| MULTE | Test 3 Nominal diameter (mm) and applied torque (Nm) | B- WALTER WALTER WALTER WALT | N/A |
| 8.8 | Handles strength | THE LIFE SLIEF MITE | N/A |
| 8.8.1 | General | No handles | N/A |
| 8.8.2 | Handle strength test | LIER MITER WALTER WALTER OF | N/A |
| Et JE | Number of handles | a state of | _ |
| 7/12 | Force applied (N) | there were mer and | 20 |
| 8.9 | Wheels or casters attachment requirements | t let let liet sie | N/A |
| 8.9.2 | Pull test | No such parts | N/A |
| 8.10 | Carts, stands and similar carriers | TEL TEL TEL STEE | N/A |



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|----------|--|--------------------------------------|---------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |
| 70, | . I st let get get got | Mr. Mr. M. M. | | | |
| 8.10.1 | General | No carts, stands or similar carriers | N/A | | |
| 8.10.2 | Marking and instructions | at the left | N/A | | |
| 8.10.3 | Cart, stand or carrier loading test | Sie with Aut Men. | N/A | | |
| EK WITER | Loading force applied (N) | t telt telt street is | N/A | | |
| 8.10.4 | Cart, stand or carrier impact test | Mrs. Mrs. Mrs. Mrs. | N/A | | |
| 8.10.5 | Mechanical stability | TEX NITER WITER WITE | N/A | | |
| dt. | Force applied (N) | on an are | 10 | | |
| 8.10.6 | Thermoplastic temperature stability | WITE WALLE WALLE WALL | N/A | | |
| 8.11 | Mounting means for slide-rail mounted equipment (SRME) | | N/A | | |
| 8.11.1 | General | No such parts | N/A | | |
| 8.11.2 | Requirements for slide rails | y Tex Ster Ster Street | N/A | | |
| | Instructional Safeguard | The An In | N/A | | |
| 8.11.3 | Mechanical strength test | ALTER OLITER WALTER WALLE | N/A | | |
| 8.11.3.1 | Downward force test, force (N) applied | | N/A | | |
| 8.11.3.2 | Lateral push force test | the military | N/A | | |
| 8.11.3.3 | Integrity of slide rail end stops | the state of | N/A | | |
| 8.11.4 | Compliance | me me m | N/A | | |
| 8.12 | Telescoping or rod antennas | - ITEK STEEK MITEK MAIT | N/A | | |
| <i>*</i> | Button/ball diameter (mm) | No such parts | _ | | |

| 9 | THERMAL BURN INJURY | | P C |
|-------|---|---|------|
| 9.2 | Thermal energy source classifications | ir, mr. m. m. m. | Р |
| 9.3 | Touch temperature limits | et ifet itet nifet mit | Р |
| 9.3.1 | Touch temperatures of accessible parts: | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | PAL |
| 9.3.2 | Test method and compliance | See B.1.6 & B.2.3 | Р |
| 9.4 | Safeguards against thermal energy sources | | Pull |
| 9.5 | Requirements for safeguards | | ∱ Р |
| 9.5.1 | Equipment safeguard | Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions. | PI |



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|--------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 12, | the state of the s | Mer Me Me Me | · , . |
| 9.5.2 | Instructional safeguard | Instructional safeguard is not required. | N/A |
| 9.6 | Requirements for wireless power transmitters | at at the text | N/A |
| 9.6.1 | General | No wireless power transmitters | N/A |
| 9.6.2 | Specification of the foreign objects | et itek altek mitek mil | N/A |
| 9.6.3 | Test method and compliance | The The St. | N/A |
| | | | |

| 10 | RADIATION | | Р |
|----------|--|--|--------|
| 10.2 | Radiation energy source classification | | P |
| 10.2.1 | General classification | See below | P |
| · m | Lasers | white with me me | _ |
| unlier v | Lamps and lamp systems: | RS1: LED only for indicating use which is considered as low power application. | _ |
| in in | Image projectors | WHILE MULL MUT, MUT, MUT, | _ |
| LIFE MIT | X-Ray: | THE STREET | _ |
| | Personal music player | 1 10 10 10 | _ |
| 10.3 | Safeguards against laser radiation | | N/A |
| MITER | The standard(s) equipment containing laser(s) comply | No laser radiation | N/A |
| 10.4 | Safeguards against optical radiation from lamps and lamp systems (including LED types) | | P. |
| 10.4.1 | General requirements | LED indication light: Classed as RS1 (Exempt Group) | FEEL P |
| H WILLEY | Instructional safeguard provided for accessible radiation level needs to exceed | - TEX STEX STEX MIT | N/A |
| | Risk group marking and location: | Mr. Mr. Mr. | N/A |
| ances an | Information for safe operation and installation | ALTER MITE MALTER WALTER | N/A |
| 10.4.2 | Requirements for enclosures | a de de de | N/A |
| in m | UV radiation exposure | the mer were a | N/A |
| 10.4.3 | Instructional safeguard | of the text of the | N/A |
| 10.5 | Safeguards against X-radiation | Mr. Mr. M. M. | N/A |
| 10.5.1 | Requirements | No X-radiation | N/A |
| et . | Instructional safeguard for skilled persons | THE THE STATE OF | _ |
| 10.5.3 | Maximum radiation (pA/kg) | LIE ALTE MILE WALL | |



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| STE WILL | The sie of | EN IEC 62368-1 | TEX WILL MILE MILE M | 74. |
|----------|--------------------|----------------|----------------------|---------|
| Clause | Requirement + Test | Alle Alle Co | Result - Remark | Verdict |

| 10.6 | Safeguards against acoustic energy sources | | N/A |
|----------|--|-------------------------|--------|
| 10.6.1 | General | No such equipment | N/A |
| 10.6.2 | Classification | TEK ITEK NITEK MITE | N/A |
| + 4 | Acoustic output L _{Aeq,T} , dB(A) | The same of the | N/A |
| W.C. | Unweighted RMS output voltage (mV) | MITE WALTE WALTE | s/ N/A |
| TEK | Digital output signal (dBFS) | A sit set | N/A |
| 10.6.3 | Requirements for dose-based systems | Write Aury Aury A | N/A |
| 10.6.3.1 | General requirements | Tet Tet Stet NI | N/A |
| 10.6.3.2 | Dose-based warning and automatic decrease | War Mrs. Mrs. Mrs. Mrs. | N/A |
| 10.6.3.3 | Exposure-based warning and requirements | TEX NITER WITER WHITE | N/A |
| t let | 30 s integrated exposure level (MEL30) | The state of | N/A |
| 2000 | Warning for MEL ≥ 100 dB(A) | White white white | N/A |
| 10.6.4 | Measurement methods | at all the | N/A |
| 10.6.5 | Protection of persons | With Mur All My | N/A |
| LIE WAL | Instructional safeguards | ALTER MITTER | N/A |
| 10.6.6 | Requirements for listening devices (headphones, earphones, etc.) | The Site State | N/A |
| 10.6.6.1 | Corded listening devices with analogue input | 20, 20, 20 | N/A |
| ALL L | Listening device input voltage (mV) | LIER WILL MILE M | N/A |
| 10.6.6.2 | Corded listening devices with digital input | The state of | N/A |
| no in | Max. acoustic output L _{Aeq,T} , dB(A) | WILL MULL MULL MU | N/A |
| 10.6.6.3 | Cordless listening devices | at let let let | N/A |
| - 70, | Max. acoustic output L _{Aeq,T} , dB(A) | in the Me Me | N/A |

| B | CONDITION TESTS AND SINGLE FAULT CONDITION TESTS | | PK |
|-------|---|--|------|
| B.1 | | | Р |
| B.1.5 | Temperature measurement conditions (See appended table B.1.5) | | Pull |
| B.2 | Normal operating conditions | | of P |
| B.2.1 | General requirements | (See Test Item Particulars and appended test tables) | P |
| ans. | Audio Amplifiers and equipment with audio amplifiers | Not such equipment. | N/A |
| B.2.3 | Supply voltage and tolerances | Rated voltage 3Vdc | P |



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| | EN IEC 62368-1 | The My In The | |
|---------------------------------------|--|---|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| B.2.5 | Input test: | (See appended table B.2.5) | P |
| B.3 | Simulated abnormal operating conditions | (Ode appended table B.2.0) | P |
| B.3.1 | General General | (See appended table B.3) | <u>'</u> |
| B.3.2 | Covering of ventilation openings | No openings | N/A |
| D.J.Z | Instructional safeguard: | No openings | N/A |
| B.3.3 | | Not aupplied by D.C. mains | N/A |
| | DC mains polarity test | Not supplied by D.C. mains | |
| B.3.4 | Setting of voltage selector | No voltage selector used. | N/A |
| B.3.5 | Maximum load at output terminals | THE RIPER MILLER WALLER | N/A |
| B.3.6 | Reverse battery polarity | 1 11 1 | Р |
| B.3.7 | Audio amplifier abnormal operating conditions | Not such equipment. | N/A |
| B.3.8 WALTER WALTER WALTER WALTER | Safeguards functional during and after abnormal operating conditions | During an abnormal operating condition that does not lead to a single fault condition, all safeguards are remained effective. After restoration of normal operating conditions, all safeguards are compliant with applicable requirements. For those abnormal operating conditions lead to single fault conditions, see Clause B.4. | F Pri |
| B.4 | Simulated single fault conditions | A MITER WALTER WALTER WALTER | WP. |
| B.4.1 | General | A ST ST ST | P |
| B.4.2 | Temperature controlling device | No such device used. | N/A |
| B.4.3 | Blocked motor test | No motors used. | N/A |
| B.4.4 | Functional insulation | See below. | Р |
| B.4.4.1 | Short circuit of clearances for functional insulation | (See appended table B.4) | Р |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | (See appended table B.4) | PLY |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards | No coated printed boards used. | N/A |
| B.4.5 | Short-circuit and interruption of electrodes in tubes and semiconductors | (See appended table B.4) | TEX P |
| B.4.6 | Short circuit or disconnection of passive components | (See appended table B.4) | P |



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| 70, | EN IEC 62368-1 | y me, me my m | |
|-----------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 72, | the state of the s | Mer Me Me Me | |
| B.4.7 | Continuous operation of components | The EUT is continuous operating type and no such components intended for short time operation or intermittent operation | N/A |
| B.4.8 | Compliance during and after single fault conditions | (See appended table B.4) | P |
| B.4.9 | Battery charging and discharging under single fault conditions | No such battery | N/A |
| Cale | UV RADIATION | TEX TEX STEX SITES | N/A |
| C.1 | Protection of materials in equipment from UV rac | diation | N/A |
| C.1.2 | Requirements | No such UV generated from the equipment. | N/A |
| C.1.3 | Test method | LIER WILE WILLE WALL | N/A |
| C.2 | UV light conditioning test | | N/A |
| C.2.1 | Test apparatus | WILL MULTE MULT MULT | N/A |
| C.2.2 | Mounting of test samples | A TEX TEX | N/A |
| C.2.3 | Carbon-arc light-exposure test | 2 445 445 2 | N/A |
| C.2.4 | Xenon-arc light-exposure test | The Life Wife Wi | N/A |
| D | TEST GENERATORS | Mr. Mr. Mr. | N/A |
| D.1 | Impulse test generators | NITE MITER WALTER WALTER | N/A |
| D.2 | Antenna interface test generator | the set set | N/A |
| D.3 | Electronic pulse generator | inite anti vinit vinit. | N/A |
| EE | TEST CONDITIONS FOR EQUIPMENT CONTAINI | NG AUDIO AMPLIFIERS | N/A |
| E.1 | Electrical energy source classification for audio | signals | N/A |
| WILLE | Maximum non-clipped output power (W) | - LIEK OLIEK WALTER WALT | Water. |
| at . | Rated load impedance (Ω) | The transfer of the | A CO |
| My 1 | Open-circuit output voltage (V) | INLIER WALTE WALL WALL | 10, |
| UEK S | Instructional safeguard: | at let let let | ~UE# (|
| E.2 | Audio amplifier normal operating conditions | UTE MUTE MUTE MUTE | N/A |
| IET MALTE | Audio signal source type: | it stir stirk nation and | in and |
| t st | Audio output power (W): | | |
| MULL | Audio output voltage (V) | INTIE MATERIALITY MATE | Mr. |
| all the | Rated load impedance (Ω) | | 16 |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-----------|--|---|--------------|
| Olause | requirement 1 rest | result remark | Voluici |
| TEK. | Requirements for temperature measurement | It let telt treet | N/A |
| E.3 | Audio amplifier abnormal operating conditions | ure Mury and Any | N/A |
| FIET WILL | EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS | NSTRUCTIONAL | Por |
| F.1 | General | et tet itet nitet mit | P |
| | Language | English | |
| F.2 | Letter symbols and graphical symbols | THE MITE WHITE WHITE | JIP P |
| F.2.1 | Letter symbols according to IEC60027-1 | Letter symbols for quantities and units are complied with IEC 60027-1. | INLT P |
| F.2.2 | Graphic symbols according to IEC, ISO or manufacturer specific | Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010. | Pin |
| F.3 | Equipment markings | the tex tex star | Р |
| F.3.1 | Equipment marking locations | The required marking is located on the enclosure of the equipment and is easily visible. | P LITER W |
| F.3.2 | Equipment identification markings | See copy of marking plate. | Р |
| F.3.2.1 | Manufacturer identification | See copy of marking plate | P |
| F.3.2.2 | Model identification | See copy of marking plate | Р |
| F.3.3 | Equipment rating markings | Unit didn't direct connection to the mains, it need not be marked with any electrical rating. | N/A |
| F.3.3.1 | Equipment with direct connection to mains | in in in | N/A |
| F.3.3.2 | Equipment without direct connection to mains | - LIER NLIER WILLER WALT | N/A |
| F.3.3.3 | Nature of the supply voltage | The The State of | N/A |
| F.3.3.4 | Rated voltage | THE WALTER WALTER WALTER | N/A |
| F.3.3.5 | Rated frequency | A A A A A | N/A |
| F.3.3.6 | Rated current or rated power | The Mary Aug Aug a | N/A |
| F.3.3.7 | Equipment with multiple supply connections | et tet tet stet stet mi | N/A |
| F.3.4 | Voltage setting device | No voltage setting device. | N/A |
| | Terminals and operating devices | See below. | N/A |
| F.3.5 | | | |



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| EN IEC 62368-1 | | | |
|----------------|--|--|----------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1,, | the state of the s | mer mer in in | |
| F.3.5.2 | Switch position identification marking | No switch used. | N/A |
| F.3.5.3 | Replacement fuse identification and rating markings | t it lit lit | N/A |
| | Instructional safeguards for neutral fuse | sic muli and and an | N/A |
| F.3.5.4 | Replacement battery identification marking: | No such battery on the equipment. See sub-clause F.5 | N/A |
| F.3.5.5 | Neutral conductor terminal | WILL WILL MALL WALL WALL WALL | N/A |
| F.3.5.6 | Terminal marking location | at at let set | N/A |
| F.3.6 | Equipment markings related to equipment classification | THE WATER THE THE | N/A |
| F.3.6.1 | Class I equipment | the write and and an | N/A |
| F.3.6.1.1 | Protective earthing conductor terminal | e at the the til | N/A |
| F.3.6.1.2 | Protective bonding conductor terminals | MUTTER MUTE AND AND | N/A |
| F.3.6.2 | Equipment class marking | TEK JEK ALTER MITE | N/A |
| F.3.6.3 | Functional earthing terminal marking | | N/A |
| F.3.7 | Equipment IP rating marking | IPX0 | N/A |
| F.3.8 | External power supply output marking | | N/A |
| F.3.9 | Durability, legibility and permanence of marking | Marking is considered to be legible and easily discernible. See also the following details. | P |
| F.3.10 | Test for permanence of markings | The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible. | UNLITER WALTER |
| F.4 | Instructions | The state of | P |
| Merca | a) Information prior to installation and initial use | Provided in the manual. | Р |
| WALTER | b) Equipment for use in locations where children not likely to be present | Not such equipment | N/A |
| J. | c) Instructions for installation and interconnection | Not such equipment | Р |



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| | EN IEC 62368-1 | | |
|-----------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 10. | the state of the south south | me me me | , , , |
| WALTER W | d) Equipment intended for use only in restricted access area | Not such equipment | N/A |
| JEK J | e) Equipment intended to be fastened in place | Not such equipment | N/A |
| 211 | f) Instructions for audio equipment terminals | No such terminals provided. | N/A |
| EK NITE | g) Protective earthing used as a safeguard | t get get significa | N/A |
| - JEX | h) Protective conductor current exceeding ES2 limits | AND | N/A |
| 700 7 | i) Graphic symbols used on equipment | MULL WILL ME MY | N/A |
| inchek an | j) Permanently connected equipment not provided with all-pole mains switch | Not permanently connected equipment. | N/A |
| TEK WALT | k) Replaceable components or modules providing safeguard function | No such markings. | N/A |
| it The | I) Equipment containing insulating liquid | No such liquid. | N/A |
| 211. | m) Installation instructions for outdoor equipment | Not such equipment | N/A |
| F.5 | Instructional safeguards | TEX TEX LIER NITES | N/A |
| G | COMPONENTS | any any any | Р |
| G.1 | Switches | THE MALTER MALTER | N/A |
| G.1.1 | General | No switches | N/A |
| G.1.2 | Ratings, endurance, spacing, maximum load | White white white we | N/A |
| G.1.3 | Test method and compliance | at all the of | N/A |
| G.2 | Relays | Mer Mer Me M | N/A |
| G.2.1 | Requirements | No relays | N/A |
| G.2.2 | Overload test | in the same | N/A |
| G.2.3 | Relay controlling connectors supplying power to other equipment | TEX WALTER WALTER WALTER W | N/A |
| G.2.4 | Test method and compliance | - LITER OLITER WHITE WHI | N/A |
| G.3 | Protective devices | SH SH SH SH | N/A |
| G.3.1 | Thermal cut-offs | No thermal cut-offs | N/A |
| nliek wh | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | LIEK MILIEK MILIEK | N/A |
| TEX WALTE | Thermal cut-outs tested as part of the equipment as indicated in c) | et united united united un | N/A |
| G.3.1.2 | Test method and compliance | at at at a | N/A |
| G.3.2 | Thermal links | No thermal-links | N/A |



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| 6. | | D 11 D 1 | A-1, 10 |
|--------------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics | CLIER WHITER WHITER WALTER | N/A |
| UEF NI | b) Thermal links tested as part of the equipment | at at let let | N/A |
| G.3.2.2 | Test method and compliance | and the man | N/A |
| G.3.3 | PTC thermistors | No PTC thermistor provided as safeguard within the equipment. | N/A |
| G.3.4 | Overcurrent protection devices | Weign They Me My | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to G.3.4 | LIEK WALTER WALTER | N/A |
| G.3.5.1 | Non-resettable devices suitably rated and marking provided | Et MUTER MUTER MUTER M | N/A |
| G.3.5.2 | Single faults conditions: | et tet stet set | N/A |
| G.4 | Connectors | They They My Any | N/A |
| G.4.1 | Spacings | TEX STEX BUTER WITE | N/A |
| G.4.2 | Mains connector configuration | The state of the s | N/A |
| G.4.3 | Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely | mrite with a | N/A |
| G.5 | Wound components | E MITE WALL WALL THE | N/A |
| G.5.1 | Wire insulation in wound components | at at all a | N/A |
| G.5.1.2 | Protection against mechanical stress | White Auth Aug Aug | N/A |
| G.5.2 | Endurance test | LEK TEK STEK NITEK | N/A |
| G.5.2.1 | General test requirements | Mr. Mr. M. M. | N/A |
| G.5.2.2 | Heat run test | TEX SLIEN WILL MILE MILE W | N/A |
| et let | Test time (days per cycle) | The second second | £ -1 |
| ane | Test temperature (°C) | WILL MILL MILL MILL | 9 |
| G.5.2.3 | Wound components supplied from the mains | at at all all | N/A |
| G.5.2.4 | No insulation breakdown | mer mer mer and | N/A |
| G.5.3 | Transformers | TEX LIER WITER BUTER | N/A |
| G.5.3.1 | Compliance method | The Thirty and | N/A |
| I. MULL | Position | CENTER WITTER WALTER WALTER | N/A |
| t JEX | Method of protection | at the state of | N/A |
| G.5.3.2 | Insulation | MULTE WALL WALL WALL WALL | N/A |
| All The Land | Protection from displacement of windings: | at at at at | 100 |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------|--|---------------------------------------|------------|
| 20, 1 | the state of the s | me me me | 70, 2, |
| G.5.3.3 | Transformer overload tests | et Jet Jet | N/A |
| G.5.3.3.1 | Test conditions | our mr mr 2 | N/A |
| G.5.3.3.2 | Winding temperatures | TEX LITER NUTER ON | N/A |
| G.5.3.3.3 | Winding temperatures - alternative test method | 111 11 11 | N/A |
| G.5.3.4 | Transformers using FIW | E WILLEY WALLE MALLE | N/A |
| G.5.3.4.1 | General | it it it | N/A |
| 211. 21 | FIW wire nominal diameter: | MULL MULL MULL | 211 |
| G.5.3.4.2 | Transformers with basic insulation only | TEX TEX STER O | N/A |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation | et let let of | N/A |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core | We the Tex Tex | N/A |
| G.5.3.4.5 | Thermal cycling test and compliance | Mer Mer Mu | N/A |
| G.5.3.4.6 | Partial discharge test | TEX STEX OUTER. | N/A |
| G.5.3.4.7 | Routine test | 1 11 | N/A |
| G.5.4 | Motors | No motors | N/A |
| G.5.4.1 | General requirements | | ⊬ N/A |
| G.5.4.2 | Motor overload test conditions | MULL MULL MULL | N/A |
| G.5.4.3 | Running overload test | TEN TEN LITER | N/A |
| G.5.4.4.2 | Locked-rotor overload test | The Au Au | N/A |
| inches and | Test duration (days) | LIEF WITE WITE W | ntie Julia |
| G.5.4.5 | Running overload test for DC motors | | N/A |
| G.5.4.5.2 | Tested in the unit | HEY WALTER WALTE WAL | N/A |
| G.5.4.5.3 | Alternative method | a et det de | N/A |
| G.5.4.6 | Locked-rotor overload test for DC motors | with the Me | N/A |
| G.5.4.6.2 | Tested in the unit | TEX LIEX SLIER | N/A |
| * | Maximum Temperature | The The April | N/A |
| G.5.4.6.3 | Alternative method | LIER WITER WHITER WA | N/A |
| G.5.4.7 | Motors with capacitors | | N/A |
| G.5.4.8 | Three-phase motors | MULL MILL MILL | N/A |
| G.5.4.9 | Series motors | A LET LET | N/A |
| (1) | Operating voltage | Aller Aller Aller | 2, 2 |
| G.6 | Wire Insulation | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-----------|---|----------------------|-----------|
| 7/6 | | White white will | 145 145 |
| G.6.1 | General | at all all | N/A |
| G.6.2 | Enamelled winding wire insulation | ave me me | N/A |
| G.7 | Mains supply cords | TEX LIEK NITER IN | N/A |
| G.7.1 | General requirements | 10 10 10 | N/A |
| Me | Туре | er write write write | aur aur |
| G.7.2 | Cross sectional area (mm² or AWG) | A SIL SIL | N/A |
| G.7.3 | Cord anchorages and strain relief for non- detachable power supply cords | Must mer must | N/A |
| G.7.3.2 | Cord strain relief | A THE MUTT ME ME | N/A |
| G.7.3.2.1 | Requirements | et tet tet ut | N/A |
| L A | Strain relief test force (N) | 1112 111 111 | N/A |
| G.7.3.2.2 | Strain relief mechanism failure | A STEE WITE WITE | N/A |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm): | an a st | N/A |
| G.7.3.2.4 | Strain relief and cord anchorage material | UNLIE WALTE WALL V | N/A |
| G.7.4 | Cord Entry | at the | N/A |
| G.7.5 | Non-detachable cord bend protection | 2 July My | N/A |
| G.7.5.1 | Requirements | The all the matter | N/A |
| G.7.5.2 | Test method and compliance | Mr. An An | N/A |
| Alver, A | Overall diameter or minor overall dimension, <i>D</i> (mm) | WALTER WHITE WALTER | |
| | Radius of curvature after test (mm) | NIEK WIFE WHIEF W | rite min- |
| G.7.6 | Supply wiring space | | N/A |
| G.7.6.1 | General requirements | HE MULL MULL MULL | N/A |
| G.7.6.2 | Stranded wire | - LEK TEK TIEK | N/A |
| G.7.6.2.1 | Requirements | me me m | N/A |
| G.7.6.2.2 | Test with 8 mm strand | LIER SLIER MATER | N/A |
| G.8 | Varistors | 20, 20, 2 | N/A |
| G.8.1 | General requirements | No varistors used | N/A |
| G.8.2 | Safeguards against fire | a state of | N/A |
| G.8.2.1 | General | i mur mur mur | N/A |
| G.8.2.2 | Varistor overload test | A TEN TEN TEN | N/A |
| G.8.2.3 | Temporary overvoltage test | Mr. M. M. | N/A |
| G.9 | Integrated circuit (IC) current limiters | THE THE LITER | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdic |
|----------------|---|--|----------|
| 7/62 | a to the still still | Will Mill Mill Mark | |
| G.9.1 | Requirements | No such IC | N/A |
| <i>t</i> 1, 1, | IC limiter output current (max. 5A) | With Mur Mur And | T |
| LIE WILL | Manufacturers' defined drift | TEX LIEX OLIEX MITETA | 1671 - A |
| G.9.2 | Test Program | | N/A |
| G.9.3 | Compliance | WILL MILL MULL MU | N/A |
| G.10 | Resistors | . It is to the | N/A |
| G.10.1 | General | The bleeder resistors used after X - capacitor, not relied upon as safeguard, no test necessary. See 5.5.6. | N/A |
| G.10.2 | Conditioning | TER WILL MULTER WALL MI | N/A |
| G.10.3 | Resistor test | at at at a | N/A |
| G.10.4 | Voltage surge test | MULL MULL MULL MULL | N/A |
| G.10.5 | Impulse test | fet tet tret nites | N/A |
| G.10.6 | Overload test | Mr. My My My | N/A |
| G.11 | Capacitors and RC units | CHE CHIEF WITE | N/A |
| G.11.1 | General requirements | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| G.11.2 | Conditioning of capacitors and RC units | MITTE WALL WALL WA | N/A |
| G.11.3 | Rules for selecting capacitors | at at let it | N/A |
| G.12 | Optocouplers | While Mur Mur Mur | N/A |
| Mrtier M | Optocouplers comply with IEC 60747-5-5 with specifics | NATER WALTER WALTER WALTER | N/A |
| TER MI | Type test voltage V _{ini,a} : | et let let liet liet. | CLIER-IN |
| ري ابر د | Routine test voltage, V _{ini, b} | m, m, m, | L - |
| G.13 | Printed boards | - LIER OLIER MILIERANI | Р |
| G.13.1 | General requirements | See the following details. | P |
| G.13.2 | Uncoated printed boards | The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements | WE P |
| G.13.3 | Coated printed boards | No coated printed board or multilayer board applied for within the equipment. | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|----------|--|-----------------------|-------------|
| | requirement 1 foot | Troodic Tromain | Volume |
| G.13.4 | Insulation between conductors on the same inner surface | NUTER WAITER WAITER W | N/A |
| G.13.5 | Insulation between conductors on different surfaces | at at let | N/A |
| -27 | Distance through insulation | in mer me | N/A |
| ER NALTE | Number of insulation layers (pcs) | t TER TIER WITE | NITE WILL |
| G.13.6 | Tests on coated printed boards | 111 111 111 | N/A |
| G.13.6.1 | Sample preparation and preliminary inspection | OLIER MILIE WALLE | N/A |
| G.13.6.2 | Test method and compliance | at the title | N/A |
| G.14 | Coating on components terminals | Write Mer Mer Me | N/A |
| G.14.1 | Requirements | No such coating | N/A |
| G.15 | Pressurized liquid filled components | The me in | N/A |
| G.15.1 | Requirements | No such liquid | N/A |
| G.15.2 | Test methods and compliance | 20 x x | N/A |
| G.15.2.1 | Hydrostatic pressure test | Write White Mail a | N/A |
| G.15.2.2 | Creep resistance test | At a state . | N/A |
| G.15.2.3 | Tubing and fittings compatibility test | 2 July 24 | N/A |
| G.15.2.4 | Vibration test | The state out | N/A |
| G.15.2.5 | Thermal cycling test | m m | N/A |
| G.15.2.6 | Force test | WIFE WILLE WALLE | N/A |
| G.15.3 | Compliance | a state | N/A |
| G.16 | IC including capacitor discharge function (ICX) | WILL MULL MUE A | N/A |
| G.16.1 | Condition for fault tested is not required | No such ICX | N/A |
| 4 | ICX with associated circuitry tested in equipment | int my m | N/A |
| anite . | ICX tested separately | - LITER OLITER MALTER | N/A |
| G.16.2 | Tests | m n t | N/A |
| MUE W | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test: | united white white | ing my |
| ner who | Mains voltage that impulses to be superimposed on | LIER WHITE WHITE WA | it 2/h2 _3/ |
| I WILL | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test: | WALLET WALL WALL | my the |
| G.16.3 | Capacitor discharge test: | SLIEF RUE SPLIE | N/A |
| Н | CRITERIA FOR TELEPHONE RINGING SIGNALS | The state of | N/A |
| H.1 | General | ALTER MILE MALIE | N/A |



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| | EN IEC 62368-1 | | |
|-----------|--|---|---------------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| 4, | The state of the s | THE THE THE THE | |
| H.2 | Method A | Let tet tet nich nicht | N/A |
| H.3 | Method B | mer mer mer m | N/A |
| H.3.1 | Ringing signal | No telephone ringing signal generated within the equipment. | N/A |
| H.3.1.1 | Frequency (Hz) | Murr Murr Mur Mur | 20. |
| H.3.1.2 | Voltage (V) | TEX STEEL STEEL SPITE | MACTER |
| H.3.1.3 | Cadence; time (s) and voltage (V) | m m m | , et |
| H.3.1.4 | Single fault current (mA): | WITER WALTE WALTE WALTE | 1000-1 |
| H.3.2 | Tripping device and monitoring voltage | at let tet steet. | N/A |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | The me me of | N/A |
| H.3.2.2 | Tripping device | mer me me me | N/A |
| H.3.2.3 | Monitoring voltage (V) | THE THE LITTER OLITER | N/A |
| J' | INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION | | N/A |
| J.1 | General | General | |
| er will | Winding wire insulation | E LIE RELLEVANIE MA | Start Barrell |
| - it | Solid round winding wire, diameter (mm) | Mr. A. A. A. | N/A |
| MUT. | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²): | White white white white | N/A |
| J.2/J.3 | Tests and Manufacturing | RETER OFFICE WALL WALL | 111 - 1 |
| K | SAFETY INTERLOCKS | at at the test | N/A |
| K.1 | General requirements | in me me m | N/A |
| ik NALTE! | Instructional safeguard: | No safety interlock provided. | N/A |
| K.2 | Components of safety interlock safeguard mechanism | | N/A |
| K.3 | Inadvertent change of operating mode | | N/A |
| K.4 | Interlock safeguard override | | N/A |



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| t | EN IEC 62368-1 | 741, 20, | 4- 0 |
|-----------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| K.7.1 | Separation distance for contact gaps & interlock circuit elements | Street writes writes writes | N/A |
| LIFEK WAL | In circuit connected to mains, separation distance for contact gaps (mm) | TEX WITER WITER WHITER W | N/A |
| EX WALTER | In circuit isolated from mains, separation distance for contact gaps (mm) | the street will survive surviver | N/A |
| MALTER | Electric strength test before and after the test of K.7.2 | (See appended table 5.4.9) | N/A |
| K.7.2 | Overload test, Current (A) | and the second | N/A |
| K.7.3 | Endurance test | Wife Write White Whi | N/A |
| K.7.4 | Electric strength test | a de de de | N/A |
| F 20 | DISCONNECT DEVICES | The man me me | N/A |
| L.1 | General requirements | t telt street market | N/A |
| L.2 | Permanently connected equipment | The The The The | N/A |
| L.3 | Parts that remain energized | SLIEF BLIEF WILLE WALLE | N/A |
| L.4 | Single-phase equipment | The set | N/A |
| L.5 | Three-phase equipment | The same of the same of | N/A |
| L.6 | Switches as disconnect devices | The July | N/A |
| L.7 | Plugs as disconnect devices | The The The The | N/A |
| L.8 | Multiple power sources | TER STER WITE WITE | N/A |
| J. | Instructional safeguard | Mr. Mr. 20 | N/A |
| M w | EQUIPMENT CONTAINING BATTERIES AND THE | EIR PROTECTION CIRCUITS | N/A |
| M.1 | General requirements | at at at at | N/A |
| M.2 | Safety of batteries and their cells | The MULT MAN | N/A |
| M.2.1 | Batteries and their cells comply with relevant IEC standards | No battery used | N/A |
| M.3 | Protection circuits for batteries provided within the equipment | WALTER WALTER WALTER | N/A |
| M.3.1 | Requirements | et let let let | N/A |
| M.3.2 | Test method | in mer mer me me | N/A |
| TEN NALTE | Overcharging of a rechargeable battery | Et LIER NIER WITER W | N/A |
| t st | Excessive discharging | 101 111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| MULIT | Unintentional charging of a non-rechargeable battery | WHITE WHITE WHITE WHI | N/A |
| | Reverse charging of a rechargeable battery | TER TER STEE STEE | N/A |



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| 70, | EN IEC 62368-1 | The air air air | |
|---------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 70. | The state of the state which which | Mr. Mr. M. M. | |
| M.3.3 | Compliance | LET THE WIFE WIFE | N/A |
| M.4 | Additional safeguards for equipment containing battery | a portable secondary lithium | N/A |
| M.4.1 | General | in the the miles | N/A |
| M.4.2 | Charging safeguards | t lifet allest miles and | N/A |
| M.4.2.1 | Requirements | The the total | N/A |
| M.4.2.2 | Compliance | WILL WILL WHILL WILL | N/A |
| M.4.3 | Fire enclosure | at the fifth | N/A |
| M.4.4 | Drop test of equipment containing a secondary lithium battery | THE MALL MALL MALL | N/A |
| M.4.4.2 | Preparation and procedure for the drop test | E WILL MUTT MUT MU | N/A |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):: | MUTER WHITER WHITER WHITE | N/A |
| M.4.4.4 | Check of the charge/discharge function | at at let jet | N/A |
| M.4.4.5 | Charge / discharge cycle test | Will Aug Aug My | N/A |
| M.4.4.6 | Compliance | at the street of | N/A |
| M.5 | Risk of burn due to short-circuit during carrying | | N/A |
| M.5.1 | Requirement | alie with while we | N/A |
| M.5.2 | Test method and compliance | The state of the s | N/A |
| M.6 | Safeguards against short-circuits | WHITE WHITE WAS WAS | N/A |
| M.6.1 | External and internal faults | at let let liet | N/A |
| M.6.2 | Compliance | ing the the the | N/A |
| M.7 | Risk of explosion from lead acid and NiCd batter | ies the true mitter in | N/A |
| M.7.1 | Ventilation preventing explosive gas concentration | | N/A |
| MULL | Calculated hydrogen generation rate | CLIEF WALLE WALL WALL | N/A |
| M.7.2 | Test method and compliance | s at at at | N/A |
| 41, 4 | Minimum air flow rate, Q (m ³ /h) | Write Mure And And | N/A |
| M.7.3 | Ventilation tests | et set set stet | N/A |
| M.7.3.1 | General | in the same | N/A |
| M.7.3.2 | Ventilation test – alternative 1 | A STEE WITE WITE WALLES | N/A |
| t lit | Hydrogen gas concentration (%) | The sale of the sale | N/A |
| M.7.3.3 | Ventilation test – alternative 2 | MITE WALL WALL WALL | N/A |
| 1 | Obtained hydrogen generation rate | the state of | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|----------|---|------------------------------|---------------------|
| 1000 | | antis with mile high | 100 |
| M.7.3.4 | Ventilation test – alternative 3 | et tet tet tet | N/A |
| 20, 2, | Hydrogen gas concentration (%) | ave me me me | N/A |
| M.7.4 | Marking | TEX LIEX NUTER MUTER ON | N/A |
| M.8 | Protection against internal ignition from externa with aqueous electrolyte | I spark sources of batteries | N/A |
| M.8.1 | General | 14. 14. 14. 1 | N/A |
| M.8.2 | Test method | CALIER MITE MALIE WALLE | N/A |
| M.8.2.1 | General | A A A A | N/A |
| M.8.2.2 | Estimation of hypothetical volume V_Z (m³/s) | WILL MULL MULL MULL | 1, _ 2 |
| M.8.2.3 | Correction factors | at test test tiest of | 1 ^{EF} -01 |
| M.8.2.4 | Calculation of distance d (mm) | Mr. Mr. Mr. M. | £ -, |
| M.9 | Preventing electrolyte spillage | A TIER WILL MATER WATER | N/A |
| M.9.1 | Protection from electrolyte spillage | The second second | N/A |
| M.9.2 | Tray for preventing electrolyte spillage | WILL MULLE MULLE MULL | N/A |
| M.10 | Instructions to prevent reasonably foreseeable misuse | THE WALTER MALIER | N/A |
| Et JE | Instructional safeguard: | | N/A |
| N | ELECTROCHEMICAL POTENTIALS | | N/A |
| NITES | Material(s) used | Pollution degree considered | NI LIE |
| 0 | MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES | | N/A |
| Mrs. M | Value of X (mm) | ALTER INLIER MILITER WILLIE | 11 m 1 |
| Pot 3 | SAFEGUARDS AGAINST CONDUCTIVE OBJECT | TS to the | N/A |
| P.1 | General | HER MILL MUST MILL M | N/A |
| P.2 | Safeguards against entry or consequences of er | ntry of a foreign object | N/A |
| P.2.1 | General | Only PS1, ES1 | N/A |
| P.2.2 | Safeguards against entry of a foreign object | LIER WILL WILL WHILE | MULLI |
| | Location and Dimensions (mm) | and the second | 16th |
| P.2.3 | Safeguards against the consequences of entry of a foreign object | | N/A |
| P.2.3.1 | Safeguard requirements | LE MULLE MULL MULL M | N/A |
| WALTER. | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment | Not transportable equipment | N/A |
| NALTEK W | Transportable equipment with metalized plastic | Not transportable equipment | N/A |



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| | EN IEC 62368-1 | in were any | |
|---|---|------------------------|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| D 0 0 0 | | me me m | - N/A |
| P.2.3.2 | Consequence of entry test | LIET STEE WITH SHILL | N/A |
| P.3 | Safeguards against spillage of internal liquids | Mr. M. M. | N/A |
| P.3.1 | General | No such liquids. | N/A |
| P.3.2 | Determination of spillage consequences | t st st | N/A |
| P.3.3 | Spillage safeguards | e white mult war w | N/A |
| P.3.4 | Compliance | . A st set of | N/A |
| P.4 | Metallized coatings and adhesives securing part | ts with the the | N/A |
| P.4.1 | General | No such construction. | N/A |
| P.4.2 | Tests Test Tree Tree Tree Tree Tree Tree Tree Tre | in my my | N/A |
| in Muri | Conditioning, T _C (°C) | TEH NITER MITER MITER | W. All |
| t zet | Duration (weeks) | The state of | A - 18 |
| Q d | CIRCUITS INTENDED FOR INTERCONNECTION | WITH BUILDING WIRING | N/A |
| Q.1 | Limited power sources | at at 1st st | N/A |
| Q.1.1 | Requirements | Mile Muri Mile May | N/A |
| VIEW WI | a) Inherently limited output | ART TO STIFF MITTER | N/A |
| | b) Impedance limited output | 7 57 57 | N/A |
| WILL | c) Regulating network limited output | S ALTE WITH MILE W | N/A |
| - LEX | d) Overcurrent protective device limited output | L A At | N/A |
| m. | e) IC current limiter complying with G.9 | White white white whi | N/A |
| Q.1.2 | Test method and compliance: | at let let life | N/A |
| ,, , , , , , , , , , , , , , , , , , , | Current rating of overcurrent protective device (A) | Wery Mary Mary Mary | N/A |
| IIEE MI | | Et JET JET WEET | JACTER ON |
| Q.2 | Test for external circuits – paired conductor cable | who we take the | N/A |
| 100 | Maximum output current (A) | mr. mr. m. m. | N/A |
| MITE | Current limiting method: | TEX STEE DEFENDE | WILL |
| R | LIMITED SHORT CIRCUIT TEST | M. M. M. S. | N/A |
| R.1 | General | No such consideration. | N/A |
| R.2 | Test setup | a the state of | N/A |
| 1/1 | Overcurrent protective device for test | L MULL MULL MULL A | |
| R.3 | Test method | t tet tet tet tet | N/A |
| 20, | Cord/cable used for test: | mi me me all | 4 24 |
| R.4 | Compliance | TEX JEX JEX STE | N/A |



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| 1 012 | The the text of | EN IEC 62368-1 | LEX MULLER AMULES | Notice Char | m |
|--------|--------------------|----------------|-------------------|-------------|---------|
| Clause | Requirement + Test | Mr. San T. C. | Result - Remark | IEK ALTE | Verdict |

| S | TESTS FOR RESISTANCE TO HEAT AND FIRE | CH THE THE STEET | N/A |
|----------|--|---|------------|
| S.1 | Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W | | N/A |
| | Samples, material | the the me of | ` |
| EH MILTE | Wall thickness (mm) | L STEP STEP WITER OUT | No. |
| Et | Conditioning (°C): | Mr. And | C |
| MUS | Test flame according to IEC 60695-11-5 with conditions as set out | untile until until vari | N/A |
| ال شارا | - Material not consumed completely | LIET WILL WALL WALL | N/A |
| CEN C | - Material extinguishes within 30s | a at at let | N/A |
| 210 | - No burning of layer or wrapping tissue | MULL MAY MAY MA | N/A |
| S.2 | Flammability test for fire enclosure and fire barrie | r integrity | N/A |
| t | Samples, material | My my my | |
| White. | Wall thickness (mm) | WILL WILL WILL WILL | Mr. |
| 1st | Conditioning (°C): | | TEX. |
| S.3 | Flammability test for the bottom of a fire enclosure | | N/A |
| S.3.1 | Mounting of samples | The Lift of | N/A |
| S.3.2 | Test method and compliance | me me me | N/A |
| MALTER | Mounting of samples | LIER NITER WITE WAITE | MULT |
| , et | Wall thickness (mm) | The tax of | 1 th |
| S.4 | Flammability classification of materials | LITE WALTE WALT WALT | N/A |
| S.5 | Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W | FER WHITER WHITER W | N/A |
| me | Samples, material | WILL MILL MULL AND | a. |
| JEK | Wall thickness (mm) | at let let liet | C. L.T.E.W |
| 20, | Conditioning (°C): | Write Mar Mar And | 100 T |
| Kir N | MECHANICAL STRENGTH TESTS | TEX LIEX OLITER MATERIAL | P |
| T.1 | General (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 44 24 | P P |
| T.2 | Steady force test, 10 N: | (See appended table T.2) | Р |
| T.3 | Steady force test, 30 N: | at at at 5 | N/A |
| T.4 | Steady force test, 100 N: | MULL MULL MULL MILL | N/A |
| T.5 | Steady force test, 250 N: | (See appended table T.5) | P |



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| | EN IEC 62368-1 | in the say of the | |
|----------------------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| T.6 | Enclosure impact test | Mar Mr Mr Mr | Р |
| 41/2 - 41 | Fall test | MI WAIT WILL WILL | Р |
| ure r "Ni | Swing test | et the itel with | P.II |
| T.7 | Drop test | and the sure of the sure | N/A |
| T.8 | Stress relief test: | (See appended table T.8) | Р |
| T.9 | Glass Impact Test: | No such glass | N/A |
| T.10 | Glass fragmentation test | NATIONALLE MALL MALL | N/A |
| STEK IN | Number of particles counted | No such glass | N/A |
| T.11 | Test for telescoping or rod antennas | are are are | N/A |
| The MULT | Torque value (Nm): | No such antennas provided within the equipment. | N/A |
| U untite | MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION | | |
| U.1 | General Control of the Control of th | | N/A |
| LIEK JA | Instructional safeguard: | No CRT provided within the equipment. | N/A |
| U.2 | Test method and compliance for non-intrinsically protected CRTs | | |
| U.3 | Protective screen | | |
| V A | DETERMINATION OF ACCESSIBLE PARTS | a at at all | N/A |
| V.1 | Accessible parts of equipment | White Mutt was many | N/A |
| V.1.1 | General | LEK TEK STEK STEK | N/A |
| V.1.2 | Surfaces and openings tested with jointed test probes | of the let let | N/A |
| V.1.3 | Openings tested with straight unjointed test probes | in mer my mi m | N/A |
| V.1.4 | Plugs, jacks, connectors tested with blunt probe | E TEX STEX NUTER SINCE | N/A |
| V.1.5 | Slot openings tested with wedge probe | 711 711 71 | N/A |
| V.1.6 | Terminals tested with rigid test wire | INLIER WALLE WHILE WALL | N/A |
| V.2 | Accessible part criterion | | N/A |
| X | ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS) | | |
| t Jet | Clearance | at the state of | N/A |
| Yaller | CONSTRUCTION REQUIREMENTS FOR OUTDOO | OR ENCLOSURES | N/A |
| Y.1. | General | Indoor equipment | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|---------|--|---------------------------------------|---------|
| Clause | requirement + rest | Result - Remark | Verdici |
| Y.2 | Resistance to UV radiation | at let let | N/A |
| Y.3 | Resistance to corrosion | with Must My 1 | N/A |
| Y.3 | Resistance to corrosion | TEX TEX WIFE ON | N/A |
| Y.3.1 | Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by | t TEX TEX STE | N/A |
| Y.3.2 | Test apparatus | Mr. Mr. M. | N/A |
| Y.3.3 | Water – saturated sulphur dioxide atmosphere | NITER WITE WALTER | N/A |
| Y.3.4 | Test procedure: | A A A | N/A |
| Y.3.5 | Compliance | The MULL MULL M | N/A |
| Y.4 | Gaskets | at the test of | N/A |
| Y.4.1 | General | me me m | N/A |
| Y.4.2 | Gasket tests | TEK NITER WITE | N/A |
| Y.4.3 | Tensile strength and elongation tests | The The The | N/A |
| and a | Alternative test methods: | WILL WILL MILLE | N/A |
| Y.4.4 | Compression test | | N/A |
| Y.4.5 | Oil resistance | 2 Mr. M | N/A |
| Y.4.6 | Securing means | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| Y.5 | Protection of equipment within an outdoor enclos | sure | N/A |
| Y.5.1 | General | NITER INITER WALTER | N/A |
| Y.5.2 | Protection from moisture | The state of | N/A |
| no in | Relevant tests of IEC 60529 or Y.5.3 | WILL WILL MILL IN | N/A |
| Y.5.3 | Water spray test | at at all a | N/A |
| Y.5.4 | Protection from plants and vermin | in me me m | N/A |
| Y.5.5 | Protection from excessive dust | - JEK STEK MITE | N/A |
| Y.5.5.1 | General | 24, 24, 24, | N/A |
| Y.5.5.2 | IP5X equipment | OLIER MITE MALTER | "N/A |
| Y.5.5.3 | IP6X equipment | at at at | N/A |
| Y.6 | Mechanical strength of enclosures | THE MUTTER MUTTER MU | N/A |
| Y.6.1 | General | et tet tet it | N/A |
| Y.6.2 | Impact test | ALT ALT AND | N/A |



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| EN IEC 62368-1 | | | |
|----------------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment - Part 1: Safety requirements)

Differences according to...... EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator.....: UL(Demko)

Master Attachment 2021-02-04

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| n n | CENELEC COMMON MODIFICAT | IONS (EN) | Р |
|-------------|--|--|------|
| EK WALTER | Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z". | | |
| unitek unit | Annex ZB (normative) Annex ZC (informative) Annex ZD (informative) | rmative references to international publications h their corresponding European publications ecial national conditions deviations C and CENELEC code designations for flexible | WP P |
| 1 | Modification to Clause 3. | | N/A |
| 3.3.19 | Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions: | | N/A |
| 3.3.19.1 | momentary exposure level, MEL metric for estimating 1 s sound exp the HD 483-1 S2 test signal applied channels, based on EN 50332-1:20 Note 1 to entry: MEL is measured levels in dB. Note 2 to entry: See B.3 of EN 503 additional information. | to both 13, 4.2. as A-weighted | N/A |



| | EN IEC 62368-1 | | |
|---------------|--|---|--------------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| | The first car that will work | in my m | |
| 3.3.19.3 | Sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T | whitek whitek whitek | N/A |
| | Note 1 to entry: The SI unit is Pa ² s. $E = \int_{0}^{T} p(t)^{2} dt$ | unifer while while whi | et whitet w |
| 3.3.19.4 | sound exposure level, SEL | Aires Aires Mr. | N/A |
| WINLIE TEK | logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans. | Whitek whitek whitek w | NITE WILL |
| | Note 1 to entry: SEL is measured as A-weighted levels in dB. | NUTE WHITE WILL WAS | t whitek w |
| | $SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$ | Whitek whitek whitek | whit H whi |
| | Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information. | MILIER W | TITEK WALTER |
| 3.3.19.5 | digital signal level relative to full scale, dBFS | - L | N/A |
| | levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused | LIFE WHITE WHITEK WHITEK | an itek an |
| MALTER W | Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS. | JUNITER WHITE WHITE V | unity whitek |
| 2 | Modification to Clause 10 | | N/A |
| 10.6 | Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following: | ex writer writer awriter | N/A |
| 10.6.1.1 | Introduction | Not such equipment | N/A |
| whi white | Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: | until while | |
| | is designed to allow the user to listen to audio or audiovisual content / material; and | WALTER WALTER WALTER | MULL MULL |



| The tago 40 of | 1 1 1 A | | THE O |
|--------------------|-----------------|-----|-----------|
| EN IEC 62368-1 | WALL WALL WALL | In. | 711. 711. |
| Vr. The Assessment | Result - Remark | et- | Verdict |

Clause Requirement + Test - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible. Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: professional equipment; NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. - a player while connected to an external amplifier

use

that does not allow the user to walk around while in



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| EN IEC 62368-1 | | | |
|-----------------------------------|--|--|-----------------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| MALIER W | For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods | Junifek whilek whilek whilek | MALIE Y |
| 10.6.1.2 | and measurement distances apply. Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz The amount of non-ionizing radiation is regulated | A TEX WILL WILL WILL AND | N/A |
| omitek omitek omitek omi | by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566. | MULTER WALTER WALTER WALTER | white whitek stek wh |
| 10.6.2 | Classification of devices without the capacity to | estimate sound dose | N/A |
| 10.6.2.1 | General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. | No such part in this equipment | N/A |
| | For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i>) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In | INCITES WHITES WHITES WHITES | t white whitek whitek |
| | this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i>) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not | TEE MILIE WHITE WH | et white white mitet |
| LIEK WALT | exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 | EX WHITEX WHITEX WHITEX WHITE | iek yni k |



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| EN IEC 62368-1 | | | r. 24, 24 |
|----------------|--------------------|-----------------|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| dB. | 1 1 1 | A |
|---|--|--|
| RS1 limits (to be superseded, see 10.6.3.2) | WALTER WALTE WALL W | N/A |
| RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general | JOHN WILLER WHITER WHIT | TEK JUNITER |
| - The RS1 limits will be updated for all devices as per 10.6.3.2. | White White White w | |
| RS2 limits (to be superseded, see 10.6.3.3) | ALTER AND | N/A |
| RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. | LIFE WHITE W | win let win in the win |
| | MULTER MULTER MALTER MA | N/A |
| exceeds RS2 limits. | a state of | it det |
| Classification of devices (new) | | |
| General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below. | Not such equipment | N/A |
| | RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. - The RS1 limits will be updated for all devices as per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits. Classification of devices (new) General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The | RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device is known by other means such as setting or automatic detection, the LAeq, 7 acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, 7 acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBF? G(digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits. Classification of devices (new) General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The |



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| | EN IEC 62368-1 | | | |
|---------------|--|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdic | |
| 10.6.3.2 | RS1 limits (new) | - Liet Stiest Willer | N/A | |
| | RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, T acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme | JUNITER WALTER WALTER WALTER | A LIEK WALTER | |
| 10.6.3.3 | simulation noise" described in EN 50332-1. RS2 limits (new) | et let ter ter unite | N/A | |
| MALIER WALTER | RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1. | LIE WHITEK WHITE | AND SEE AND TEST OF THE SE | |
| 10.6.4 | Requirements for maximum sound exposure | the state of | N/A | |
| 10.6.4.1 | Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with | Not such equipment | N/A | |
| 10.6.4.2 | EN 50332-1 or EN 50332-2 as applicable. | The Mary Mill And | NI/A | |
| 10.0.4.2 | Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. | TEK WALTER WALTER | N/A | |



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| NA | Description of Table 1 | Desuit Desuit | |
|---------|--|--|-------------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| , , , t | The text is the state with any | 21 21 21 2V | |
| | Between RS2 and an ordinary person, the basic | THE STEE STEE | WILL WILL |
| | safeguard may be replaced by an instructional | were the the | in 22 |
| | safeguard in accordance with Clause F.5, except | | _t _t* |
| | that the instructional safeguard shall be placed | THE THE LITER OF | The William |
| | on the equipment, or on the packaging, or in the | They are the | 200 |
| | instruction manual. | | * J |
| | Alternatively, the instructional safeguard may be | Let Let the Li | |
| | given through the equipment display during use. | in the the | 20 |
| | given through the equipment display during use. | 1 4 | J+ |
| | The elements of the instructional safeguard shall | It let the the | 10. |
| | be as follows: | The Me Me | 10, 00 |
| | be as follows. | | 24- 24 |
| | | - THE THE STEEL | CLIP WILL |
| | - element 1a: the symbol 49, IEC 60417-6044 | They are the to | 1. 2. |
| | (2011-01) | 3 | A |
| | – element 2: "High sound pressure" or equivalent | at let the | The Color |
| | wording | VII ME WE ME | -3. |
| | element 3: "Hearing damage risk" or equivalent | | L St |
| | wording | It It The The | |
| | element 4: "Do not listen at high volume levels for | the will me we | 20, 20 |
| | long periods." or equivalent wording | 7 7 | 4 |
| | iong ponedo: or oquitalent wording | the fifth of the contract of t | - LI 101 |
| | An equipment safeguard shall prevent exposure | with one was | 211. |
| | of an ordinary person to an RS2 source without | | 4 0 |
| | intentional physical action from the ordinary | The Table | The Wille |
| | person and shall automatically return to an output | " " " " " " " " " " " " " " " " " " " | 20 |
| | level not exceeding what is specified for an RS1 | | 1 1 |
| | source when the power is switched off. | | EL STEP |
| | Source when the power is switched on. | elite with white when | 200 |
| | The equipment shall provide a means to actively | | |
| | inform the user of the increased sound level when | at the title the | 11. |
| | the equipment is operated with an output exceeding | The Will Will | 24. |
| | RS1. Any means used shall be acknowledged by | 7 | . t . |
| | | the state of the | LUTE MUT |
| | the user before activating a mode of operation which allows for an output exceeding RS1. The | WILL ME MULT | 71, |
| | | In a | 1 |
| | acknowledgement does not need to be repeated | at the state of | Ter City |
| | more than once every 20 h of cumulative listening | CITE WILL MUE MU | 20 |
| | time. | 2 | 4 4 |
| | NOTE 2 Evemples of masses include viewel as | at all the of | TIE . |
| | NOTE 2 Examples of means include visual or | The state of the s | 21, 2 |
| | audible signals. Action from the user is always | 3 | a\- |
| | needed. | to the ten the | (a) " (b) |
| | NOTE 2 The 20 h listening time is the account letion | The water was | 24, 20, |
| | NOTE 3 The 20 h listening time is the accumulative | 200 | . 4 |
| | listening time, independent of how often and how | - Let 18th 18th | LIE BLIV |
| | long the personal music player has been switched | WILL MUT. WAY IN | 20, |
| | off. | 20 | 4 4 |
| | A al-Wad page and all and by the state of the state of | at the the | CLIE |
| | A skilled person shall not be unintentionally | The war were any | 30 |
| 0.6.5 | exposed to RS3. Requirements for dose-based systems | | N/A |
| | | Not ough a suite stand | -412 - 211 |
| 0.6.5.1 | General requirements | Not such equipment | N/A |
| | Personal music players shall give the warnings as | THE THE THE | LIV MI |
| | provided below when tested according to EN | Will wife and | 10. |
| | 50332-3, using the limits from this clause. | ate at an | |



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| | EN IEC 62368-1 | | |
|--|--|--|----------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| WINTER WINTER WINTER WINTER WINTER WINTER WINTER | The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. | Whitek wh | WALTER WALTER |
| WHITE W | The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. | ALTER WALTER WALTER WALTER | WALL WALTER |
| 10.6.5.2 | Dose-based warning and requirements When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. | THE SLIE WHITEK WHITEK WHITEK | N/A |
| | The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss. | ex whiles multes multes on | ilik mu |
| 10.6.5.3 | Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. | JUNITER WHITER WHITER WHITER | N/A |
| | The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. | Whitek whitek whitek whitek | TEX WALTER |
| | Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than | LIFE WALTER WALTER WALTER WALTER | STEX ON |

| | EN IEC 62368-1 | | |
|--|---|---|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| WILLER WILLER | 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the EL may be disabled. | Multer multer multer | TER WITER |
| 10.6.6 | (or test signal), the EL may be disabled. Requirements for listening devices (headphones | . earphones. etc.) | N/A |
| 10.6.6.1 | Corded listening devices with analogue input | Not such equipment | N/A |
| HER WALTER WAS THE WAS | With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. | A Whitek | white white help white |
| is wit | NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. | THE WALTER WALTER WALTER | Mr. M |
| 10.6.6.2 | Corded listening devices with digital input | 4 STEP STEP WITER | N/A |
| MILITER WALTE | With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. | LITE WILLER WILLER WILLER | MAN TEX MATER |
| 10.6.6.3 | Cordless listening devices | LEK TEK TEK | N/A |
| | In cordless mode, – with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and – respecting the cordless transmission standards, where an air interface standard exists that specifies | wite white white whi | TEX UNLIEX. |
| | the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the L Aeq, T acoustic output of the listening device shall be \leq 100 dB with | Junitek muitek muitek | white white |

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Measurements shall be made in accordance with EN 50332-2 as applicable.

Modification to the whole document



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| min m | in the time to | EN IEC 62368-1 | MILIER WALTER WALTE WA | is and an |
|--------|--------------------|----------------|------------------------|-----------|
| Clause | Requirement + Test | We Alle A | Result - Remark | Verdict |

| list: | | | | Vr. 14 | 10, 10, |
|---|--------------------------------|-------------------------|-----------------------|-------------|-----------------------|
| 0.2.1 | Note 1 and 2 | 1 | Note 4 and 5 | 3.3.8.1 | Note 2 |
| 3.3.8.3 | Note 1 | 4.1.15 | Note | 4.7.3 | Note 1 and 2 |
| 5.2.2.2 | Note | 5.4.2.3.2.2 Table 12 | Note c | 5.4.2.3.2.4 | Note 1 and 3 |
| 5.4.2.3.2.4 | Note 2 | 5.4.2.5 | Note 2 | 5.4.5.1 | Note |
| Table 13 | | | | | |
| 5.4.10.2.1 | Note | 5.4.10.2.2 | Note | 5.4.10.2.3 | Note |
| 5.5.2.1 | Note | 5.5.6 | Note | 5.6.4.2.1 | Note 2 and 3 and 4 |
| 5.6.8 | Note 2 | 5.7.6 | Note | 5.7.7.1 | Note 1 and Note 2 |
| 8.5.4.2.3 | Note | 10.2.1 Table 39 | Note 3 and 4 and 5 | 10.5.3 | Note 2 |
| 10.6.1 | Note 3 | F.3.3.6 | Note 3 | Y.4.1 | Note |
| Y.4.5 | Note | | | | |
| | t it | THE NU | aller alle | 24/2 | 2n, 2. |
| Modification | to Clause 1 | | | | <i>y</i> |
| Add the follow NOTE Z1 The and electronic | use of certair equipment is | | | WALTER WAL | TEK WITEK WIT |
| see Directive : | | " " " " " " (I) | 20 | 20. | , d |



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| | EN IEC 62368-1 | 1. 24, 25, | |
|--|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 4.Z1 | Add the following new subclause after 4.9: | | N/A |
| Whitek wh | To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A | JUNITER WHITE WHIT | JUNITER JUNITE |
| nliek whi | the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. | LITE WALTER WALTER | NLTEK V |
| 6 | Modification to 5.4.2.3.2.4 | | N/A |
| 5.4.2.3.2.4 | Add the following to the end of this subclause: The requirement for interconnection with external | No connection to external circuit. | N/A |
| 7 | circuit is in addition given in EN 50491-3:2009. Modification to 10.2.1 | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | N/A |
| 10.2.1 JUNE OF THE STATE OF THE | | Added. The equipment is a low power AC ADAPTER, it does incorporate only non-intentional radiators, but does not contain radio transmitters; the typical usage, installation and physical characteristics make the equipment inherently compliant with all applicable EMF exposure levels (EN 62479: 2010 clause 4.1 Route A). | N/A |
| 8 | Modification to 10.5.1 | AC AV A A | N/A |



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| | EN IEC 62368-1 | | |
|--------|--|--|----------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 100 | the state of the state of | i me me m | |
| 10.5.1 | Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: | MULTER WHITER WHITER WHITE | N/A |
| | In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum | tex writex writex writex | er n |
| | radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. | THE MITER WALLER WALLER | white white |
| | The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. | THEY WHITEK WHITEK | UNLTEK TEK |
| | Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. | White white white whi | e with |
| | For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. | The tree in the state of the st | WILEY |
| 74 Y | NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. | the many many many a | i v |
| 9 | Modification to G.7.1 | | N/A |
| G.7.1 | Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. | White white white white | N/A |
| 10 | Modification to Bibliography | | N/A |



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| 11/13 11 | | EN IEC 62368-1 | UNLIER WALTER WALTER WA | The Marie Colo |
|----------|--------------------|----------------|-------------------------|----------------|
| Clause | Requirement + Test | No Me and | Result - Remark | Verdict |

| | | | U. M. M. | |
|--|---|---|--|--|
| EX SEX | Add the following no | otes for the standards indicat | ed: | P. P. |
| me. | IEC 60130-9 | NOTE Harmonized as EN 8 | n 13n-9 | 211 |
| _+ | IEC 60269-2 | NOTE Harmonized as HD 6 | | it let |
| WILL M | IEC 60309-1 | NOTE Harmonized as EN 6 | | SINLA. |
| 20, 20 | IEC 60364 | | red in HD 384/HD 60364 series. | 200 |
| 1 1 1 A | IEC 60601-2-4 | NOTE Harmonized as EN 6 | | LEF . |
| Mer with | IEC 60664-5 | NOTE Harmonized as EN 6 | | also all |
| | IEC 61032:1997 | NOTE Harmonized as EN 6 | 1032:1998 (not modified). | |
| LEK JEK | IEC 61508-1 | NOTE Harmonized as EN 6 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| The same | IEC 61558-2-1 | NOTE Harmonized as EN 6 | 1558-2-1. | We are |
| | IEC 61558-2-4 | NOTE Harmonized as EN 6 | 1558-2-4. | |
| F 15 | IEC 61558-2-6 | NOTE Harmonized as EN 6 | | CE LIE. |
| 21/2 2 | IEC 61643-1 | NOTE Harmonized as EN 6 | | -21/2 |
| | IEC 61643-21 | NOTE Harmonized as EN 6 | | 1 1 |
| JET N | IEC 61643-311 | NOTE Harmonized as EN 6 | | THE STATE OF |
| are an | IEC 61643-321 | NOTE Harmonized as EN 6 | 1643-321. | 1/1/2 2 |
| 4 0 | / IEC 61643-331 | NOTE Harmonized as EN 6 | | 1 |
| JEEN SLIE | | | | OLITE ONE |
| 177 | | L at all Jiv | inti inti wa vil | 21, 22. |
| 11 | ADDITION OF ANN | EXES | | |
| ZB | ANNEX ZB, SPECIA | AL NATIONAL CONDITION | S (EN) | in b |
| 4.1.15 | Denmark, Finland, | Norway and Sweden | Class II equipment | N/A |
| The all | | | | |
| - | I o the end of the sui | bclause the following is | Wer M | · 21, |
| 4 | added: | bclause the following is | The first sh | T 14 |
| Tek at | added: Class I pluggable e | equipment type A intended | E met m | ex oriex |
| INLIEK WAL | added: Class I pluggable e for connection to oth | equipment type A intended er equipment or a network | white white white white | EX NITEX |
| INLIEN WAL | added: Class I pluggable e for connection to oth shall, if safety relies | equipment type A intended er equipment or a network on connection to reliable | untile while while while | ex aviter m |
| INTEK WITER | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s | equipment type A intended her equipment or a network on connection to reliable suppressors are connected | untite white white white | ex avitex an |
| TEX MILES | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible | united white whitek whitek | aniek aner |
| INTER WHITE | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible ag stating that the equipment | White white whitek whitek | an lest and |
| INCTER WALTER | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible | white white whitek whitek | EX DALTEX ONLY |
| INTER DANK | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible ag stating that the equipment | antifet whitek whitek whitek | ex on tex unit |
| TEX WILLEY | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. | equipment type A intended her equipment or a network on connection to reliable suppressors are connected a terminals and accessible ag stating that the equipment of an earthed mains socket- | antifet whitek whitek whitek | EX WILLEX WILLEY WILLEY WILLEY WILLEY WILLEY WILLEY |
| INTER JUNES | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t | equipment type A intended the equipment or a network on connection to reliable suppressors are connected to terminals and accessible ag stating that the equipment of an earthed mains socket the applicable countries | ANLIE WALTER WALTER WALTER | EX WILLEX WILLEY WILL WILLEY WILLEY WILLEY WILL WILLEY WILL WILL WILL WILL WILL WILL WILL WIL |
| UNITER WHITE | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. | equipment type A intended the equipment or a network on connection to reliable suppressors are connected to terminals and accessible ag stating that the equipment of an earthed mains socket the applicable countries | JUNITER WHITE WHITEK WHITEK | EX WILLEX WILLEY WILLEY WILLEY WILLEY WILLEY WILLEY WILLEY |
| INLIER WILLER JUNITER WILLER WILLER | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible ag stating that the equipment of an earthed mains socket the applicable countries | antifet white whit | EX WILLEX WILL WILLEX W |
| INTER WHITE WAS AND THE WAS AN | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar | equipment type A intended ther equipment or a network on connection to reliable suppressors are connected at terminals and accessible ag stating that the equipment of an earthed mains socket the applicable countries attests stikprop skal tilsluttes | ANLIER WALTER WA | EX WITEX WITEX WITEX WITEX WITEX WITEX WITEX |
| MITER WHITE WILLES | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med je | equipment type A intended the equipment or a network on connection to reliable suppressors are connected at terminals and accessible ag stating that the equipment of an earthed mains socket the applicable countries | ANTER WALTER WAL | EX WITEX WITEX WITEX WITEX WITEX |
| TEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med ju stikproppens jord." | equipment type A intended the equipment or a network on connection to reliable suppressors are connected to terminals and accessible to an earthed mains socket the applicable countries attests tikprop skal tilsluttes ord som giver forbindelse til | ANTER WHITE WHITER WHIT | EX WITEX WIT |
| ANTER WHITE WHITER WHITE WHITER WHITE ANTER WHITE ANTER WHITE ANTER WHITE | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med ju stikproppens jord." In Finland: "Laite on | equipment type A intended ther equipment or a network on connection to reliable suppressors are connected at terminals and accessible to an earthed mains socket the applicable countries attest stikprop skal tilsluttes ord som giver forbindelse til a liitettävä suojakoskettimilla | JUNITER WHITE WHITEK | EX WILLEX WILL WILLEX WILLEX |
| MITER WALTER WAL | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med ju stikproppens jord." In Finland: "Laite on varustettuun pistoras | equipment type A intended ther equipment or a network on connection to reliable suppressors are connected at terminals and accessible to an earthed mains socket the applicable countries attest stikprop skal tilsluttes ord som giver forbindelse til a liitettävä suojakoskettimilla | JUNITER WHITE WHITEK | EX WITEX |
| ALTER WALTER WAL | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med ju stikproppens jord." In Finland: "Laite on varustettuun pistoras | equipment type A intended ther equipment or a network on connection to reliable suppressors are connected at terminals and accessible to an earthed mains socketthe applicable countries attest stikprop skal tilsluttes ord som giver forbindelse til a liitettävä suojakoskettimilla siaan" | ANLIER WHITER WH | EX WILLEX WILL WILLEX WILLEX |
| TEK WALTER | added: Class I pluggable e for connection to oth shall, if safety relies earthing or if surge s between the network parts, have a markin shall be connected to outlet. The marking text in t shall be as follows: In Denmark: "Appar en stikkontakt med ju stikproppens jord." In Finland: "Laite on varustettuun pistoras In Norway: "Apparat stikkontakt" | equipment type A intended ther equipment or a network on connection to reliable suppressors are connected at terminals and accessible to an earthed mains socketthe applicable countries attest stikprop skal tilsluttes ord som giver forbindelse til a liitettävä suojakoskettimilla siaan" | ANTER WALTER WAL | EX WILLEX WILLEY WILLEX |

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| 4.7.3 United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex 5.2.2.2 Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation | thick N/A white touch current ured. N/A N/A N/A N/A |
|--|--|
| To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation | gh touch current N/A ured. |
| After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. 5.4.11.1 and Annex G Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation | ured. white white white white |
| Annex G To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation | N/A N/A |
| of at least 0,4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition • passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and • is subject to routine testing for electric strength | Whitek wh |



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| 21, 21, | EN IEC 62368-1 | | | | |
|---|---|---|-------------------------|--|--|
| Clause | Requirement + Test | ent + Test Result - Remark | | | |
| EK WALTER | A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions: | t united anited anited an | II WALTE | | |
| | the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; | White white white whitek | Whitek we | | |
| | the additional testing shall be performed on all the test specimens as described in EN 60384- 14; | MULTER WALTER WHITER WAT | IE VINLIER | | |
| Maritek M | the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. | MITER WALTER WALTER | MITER | | |
| 5.5.2.1 | Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line | TEX WATER WATER WATER WA | N/A | | |
| 5.5.6 | voltage (230 V). Finland, Norway and Sweden | No such resistors. | N/A | | |
| | To the end of the subclause the following is added: | TEN THE WITH MITTER | NITEK M | | |
| itek mait | Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2. | iek mutek mutek mutek m | nitek wai | | |
| 5.6.1 L. Walter W. L. | Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse. | No such equipment. | N/A N/A N/A N/A N/A | | |
| 5.6.4.2.1 | Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. | Approved mains plug used (see appended table 4.1.2) | N/A | | |



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| | EN IEC 62368-1 | | |
|--|--|---------------------------------------|---------------------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.6.4.2.1 | France After the indent for pluggable equipment type A, the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. | t whilet whilet whilet while while | N/A |
| 5.6.5.1 | To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area. | LIFE WALTER WALTER WALTER | N/A |
| 5.6.8 | Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted. | White whitek whitek whitek | N/A |
| 5.7.6 | Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | No high protective conductor current. | N/A |
| 5.7.6.2 | Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. | LEK WALTER WALTER WALTER WAL | WELLER WILLIE |
| 5.7.7.1 WALLEY W | Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or | Not such system. | N/A N/A N/A N/A N/A N/A N/A N/A |
| unliek un liek unli ek unliek | external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. | ALTER WHITER WHITER WHITER | unif nifek ssk |



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| | EN IEC 62368-1 | | |
|-----------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 22. | The tit the state state state of | it, were mer in | 727 |
| | "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" | Whitek | WALT WALTER WALT |
| | NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. | Whitek whitek whitek | white wife. |
| | Translation to Norwegian (the Swedish text will also be accepted in Norway): | LIER WHITER WHITER WHI | |
| | "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." | ALTE WALTER WALTER WALTER | Junia Juniaest Juniae |
| AL WHITEK | Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel- TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet." | TEK WALTER WALTER WALTER | White white |
| 8.5.4.2.3 | United Kingdom | No external circuits. | N/A |
| | Add the following after the 2 nd dash bullet in 3 rd paragraph: | et lift slift slift | t while whi |
| | An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury. | THE LIFE STIFF | UNLIEF WALTER |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------------|---|--|-----------------|
| Clause | requirement + rest | Result - Remark | Verdict |
| B.3.1 and | Ireland and United Kingdom | , '/ ₁ , '/ ₂ | N/A |
| B.4 | The following is applicable: | * white white white | MILL MILL |
| | To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met | Whitek wh | ancies whiles |
| G.4.2 | Denmark | THE WALL WILL | N/A |
| o.4.2 Militik | To the end of the subclause the following is added: | WILLER MULTER MULTER OF | ALTER UNITER |
| | Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. | The whitee whitee wh | TEX MITTER AND |
| | CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. | nife white white | Whilek Whilek |
| | If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. | THE WALTER WALTER WALTER | EX WALLEY MALLE |
| | Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. | unties whites whites wh | unit whitek w |
| | Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. | EX WHITEX WHITEX WHITE | TEY TEY |
| | Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a | WILER MATER MUTER | NATER MATER |
| | Justification: | et set set s | IEK OTEK IN |



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| | EN IEC 62368-1 | | | | | | |
|-----------|---|----------------------------|--|--|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | | | |
| G.4.2 | United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, | Direct plug-in equipment | N/A | | | | |
| NITER WAS | 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply. | EX WHITEX WHITEX WHITEX | UNITER WILL | | | | |
| G.7.1 | United Kingdom To the first paragraph the following is added: | Direct plug-in equipment | N/A | | | | |
| | Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. | MITER WHITER WHITER WHITER | White white | | | | |
| | NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. | THE THE MILE WALLE | TO WILEY | | | | |
| G.7.1 | Ireland To the first paragraph the following is added: | Direct plug-in equipment | N/A | | | | |
| WALTER W | Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard | whilet whilet whilet whi | LITE WILLER WILL WILLER WILLER WILLER WILLER WILLER WILL WILLER WILLER WILLER W | | | | |
| G.7.2 | Ireland and United Kingdom | Direct plug-in equipment | N/A | | | | |
| | To the first paragraph the following is added: | ex outex antier anties a | Not. | | | | |
| WALTER . | A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A. | Miller Waliest Whilest Whi | TEK WALTER | | | | |
| ZC 👉 | ANNEX ZC, NATIONAL DEVIATIONS (EN) | | N/A | | | | |



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NOTE Contact address:

http://www.ptb.de

Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:

| EN IEC 62368-1 | | | | | | |
|----------------|---|------------------------------|-----------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | | |
| 10.5.2 | Germany | No CRT within the equipment. | N/A | | | |
| | The following requirement applies: | White white white white | The. | | | |
| | For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. | WALTER WALTER WALTER WALTER | WALTER W | | | |
| | Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. | AND TEX MALTER WALTER WALTER | EK WALTER | | | |





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| mry m | Ang All to | EN IEC 62368-1 | WHILE MILLER MILLER | Vita Angel An |
|--------|--------------------|----------------|---------------------|---------------|
| Clause | Requirement + Test | Mar Mar Mr | Result - Remark | Verdict |

| | IEC and CENELEC CODE DESIGNATIONS F | OR FLEXIBLE C | ORDS (EN) | N/ |
|------|--|---------------|--------------------------|---------|
| 77 | Type of flexible cord | Code de | N/ | |
| an' | | IEC | CENELEC | WALT |
| .46 | PVC insulated cords | | | TEN. |
| in. | Flat twin tinsel cord | 60227 IEC 41 | H03VH-Y | |
| TEK | Light polyvinyl chloride sheathed flexible cord | 60227 IEC 52 | H03VV-F H03VVH2-F | 7 1EK 1 |
| - 21 | Ordinary polyvinyl chloride sheathed flexible cord | 60227 IEC 53 | H05VV-F H05VVH2-F | - 511° |
| | Rubber insulated cords | | | CLE |
| | Braided cord | 60245 IEC 51 | H03RT-F | ance |
| | Ordinary tough rubber sheathed flexible cord | 60245 IEC 53 | H05RR-F | LITER |
| | Ordinary polychloroprene sheathed flexible cord | 60245 IEC 57 | H05RN-F | |
| ×. | Heavy polychloroprene sheathed flexible cord | 60245 IEC 66 | H07RN-F | 10 |
| | Cords having high flexibility | • | | ŧ , |
| 8 | Rubber insulated and sheathed cord | 60245 IEC 86 | H03RR-H | 21/2 |
| Ś | Rubber insulated, crosslinked PVC sheathed cord | 60245 IEC 87 | H03 RV4-H | CLIFE |
| 4 | Crosslinked PVC insulated and sheathed cord | 60245 IEC 88 | H03V4V4-H | 3), |
| | Cords insulated and sheathed with halogen- free thermoplastic compounds | | | CITES . |
| 11 | Light halogen-free thermoplastic insulated and sheathed flexible cords | | H03Z1Z1-F H03Z1Z1H2-F | 21/L |
| MIL | Ordinary halogen-free thermoplastic insulated and sheathed flexible cords | | H05Z1Z1-F H05Z1Z1H2-F | WALK |



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| EN IEC 62368-1 | | | | | | |
|----------------|--------------------|---------|-----------------|---------|--|--|
| Clause | Requirement + Test | me me m | Result - Remark | Verdict | | |

| TABLE: Classification of electrical energy sources | | | | | | |
|--|---|--|---|---|--|--|
| Location (e.g. | Test Parameters | | | | | ES Class |
| designation) | conditions | U (V) | I (mA) | Type ¹⁾ | Additional Info ²⁾ | |
| The EUT is | Normal | <60Vdc | 1214 | SS | SINETE S | ner wh |
| 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Abnormal | in the | 14 1 | 200 | -7- | ES1 |
| 3Vdc supplied by Internal dry battery | Single fault | X WITEK | nlte <mark>-</mark> wni | Marie | mr. nu | (declare) |
| | Location (e.g. circuit designation) The EUT is designed to be supplied by Internal dry | Location (e.g. circuit designation) The EUT is designed to be supplied by Internal dry Location (e.g. Test conditions Normal Abnormal | Location (e.g. circuit designation) The EUT is designed to be supplied by Internal dry Location (e.g. Test conditions U (V) Abnormal <60Vdc Abnormal Single fault | Location (e.g. circuit designation) The EUT is designed to be supplied by Internal dry Location (e.g. Test conditions U (V) I (mA) Volume (ma) | Location (e.g. circuit designation) The EUT is designed to be supplied by Internal dry Location (e.g. conditions Test conditions U (V) I (mA) Type¹) Volume of the parameters Volume of the para | Location (e.g. circuit designation) Test conditions U (V) I (mA) Type¹) Additional Info²) The EUT is designed to be supplied by Internal dry Single fault Single fault Parameters Conditions O (V) I (mA) Type¹) Additional Info²) Additional Info²) Single fault Single fault |

| 5.4.1.8 | TABLE: Working volta | ge measureme | nt | TER NATE W | Vill Mer. | N/A |
|------------|----------------------|--------------------|---------------------|-------------------|-----------|-------|
| Location | | RMS voltage (V) | Peak voltage (V) | Frequency (Hz) | Comme | nts |
| et jet | SITE MITE MITE | AUTIL -AUTI | 74, - 74, | JE 18 | - Alt - A | it is |
| Supplement | ary information: | | | | | |

| 5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics | | | | | |
|---|--|-------|-----------------|-------------|-------|
| Method | | .: | ISO 306 / B50 | A LIER | _ |
| Object/ Part No./Material | art No./Material Manufacturer/trademark Thickness (mm) | | | T softening | |
| The west may make a | " - At At | - 3 | TELL NITER WITE | NATE WE | re an |
| Supplementary information: | | | | | |
| The Mr. Mr. And | in a let state i | CI CE | CALLEY MALLEY | WE WE | Mr. |

| 5.4.1.10.3 | TABLE: Ball pressure test of thermoplastics | | | | | | |
|-------------|---|------------------------|----------------|-------|-----------------------|-----|----------------------|
| Allowed imp | ression diam | eter (mm) | : | ≤ 2 m | m , t | JEH | _ |
| Object/Part | No./Material | Manufacturer/trademark | Thickness (mm) | | Test temperature (°C) | | ression eter (mm) |
| 20 | ne di | TER THE MITTER OF | hite whi | - Mrs | 100 - 100 | 10 | " |
| Supplement | ary information | on: | | | | | |

| | 5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance | | | | | | | |
|--------------------|--|------------------|------------------|------------|------------------------|------------------|--|--|
| U _p (V) | U _{rms} (V) | Freq 1) (kHz) | Required cl (mm) | cl (mm) | E.S. ²⁾ (V) | Required cr (mm) | cr (mm) | |
|) _U | · | 1 | * 'at | | N. T. C. | LITELL OUT | 7 <u>17</u> 17 | |
| | | | P | P | P | P 11110 | (V) (V) (kHz) cl (mm) (mm) (V) cr (mm) | |

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn

| | K |
|----|---|
| V. | 1 |
| V. | |
| \\ | W |

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|----------------------------------|---------------|
|----------------------------------|---------------|

| me m | EN I | EC 62368-1 | 745, 74 |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 5.4.4.2 | TABLE: Minimun | ABLE: Minimum distance through insulation | | | | | | |
|--------------------------|--------------------|---|------------|-------------------|-------|--------------------|--|--|
| Distance the (DTI) at/of | nrough insulation | Peak voltage (V) | Insulation | Required DTI (mm) | Mea | asured DTI (mm) | | |
| TEN N | iet nite nite | MULL MET MUL | 7 - A | et et . | 4 Eit | Litte (N) | | |
| Supplemen | ntary information: | | | | | | | |

| 5.4.4.9 | TABLE: Solid in | TABLE: Solid insulation at frequencies >30 kHz | | | | | |
|------------|---------------------|--|--------------------|----------------|------------------|------------|-----------------------|
| Insulation | material | E _P | Frequency (kHz) | K _R | Thickness d (mm) | Insulation | V _{PW} (Vpk) |
| WITER N | NITE WALTE WAS | 'm' | n , | | Tet - Jet | aliek mi | TER METER S |
| Suppleme | entary information: | | | | | | |

| 5.4.9 | TABLE: Electric strength tests | ite with me of | L 2n 2n | N/A |
|--------------|--------------------------------|--|--|-----------------------|
| Test voltage | applied between: | Voltage shape (Surge, Impulse, AC, DC, etc.) | Test voltage (V) | Breakdown Yes / No |
| Functional: | | ADLIE IL | 2 24 24 | 4 1 |
| MILLE WALL | Mr. Mr. | set set see | NITE WILL WAL | White whi |
| Basic/supple | ementary: | ver mur ally | the state of the s | · At S |
| T. Mur | Mr. M. M. St. St. St. | et alter alter al | TIE WALL MALL | mr - m |
| Reinforced: | NITER WILL WHITE WHITE WHITE | 70, 20, | at the test | TEX STEX |
| - 44 2 | A A SET SET STEE | WILL MILL MILL | Mur Mur. | n |
| Routine Tes | ts: while we want | A ST ST | ITEK ALTEK IN | TER WITE W |
| /- // | t tet tet stet stet alter s | Land Maria | -m -m -m | t of |
| Supplement | ary information: | | | |

| 5.5.2.2 | TABLE: | TABLE: Stored discharge on capacitors N/A | | | | | | | |
|--------------|-------------|---|----------------------------------|-----------------|------------------------------|-------------|--|--|--|
| Location | | Supply voltage (V) | Operating and fault condition 1) | Switch position | Measured voltage (Vpk) | ES Class | | | |
| WILLE WILL | ani | mr -m | A 14 14 | JEH- JIEH | WITE WITE | " " The The | | | |
| Supplement | ary inform | ation: | | | | | | | |
| X-capacitors | installed | for testing: | at at | TEK STEET | alie antie | wer are | | | |
| ☐ bleeding | resistor ra | ating: | | | | | | | |
| ☐ ICX: | | | | | | | | | |



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| mer m | -24 | 4 .0 | EN IEC 62 | 2368-1 | in write m | Tr. Mur | 1112 11 |
|--------------|------------------------------|--------------------|---|---|----------------------------------|---|--|
| Clause | Requirer | ment + Test | mur. mr. | Re | esult - Remark | ek liek | Verdict |
| | | 4 4 | Let Stit | Mile John | The shirt | 20, 1 | 0 |
| 5.6.6 | TABLE: | Resistance of | protective conduc | ctors and ter | minations | TEX | N/A |
| Location | | | Test current (A) | Duratior (min) | | ge drop F (V) | Resistance (Ω) |
| 20, 20 | - A | t at a | y | WILL -W | 12. 24. 1 | 11. 14 | 20. |
| Supplemen | tary inform | nation: | | | | , | |
| | - 15 | TEN TEN | ALTER BLIEF | mr. mr. | 24. 24 | , , | ,* . |
| The Market | Mrs. | The The | 4, 4, | et et | JEK JI | all the | VILL MUS |
| 5.7.4 | TABLE | : Unearthed acc | cessible parts | TIL MILL | m. m. | | N/A |
| Location | ing a | Operating and | | EK STEK | Parameters | white whi | ES |
| | fault conditions Voltage (V) | | S Voltage (V) | Voltage (V _{rms} or V _{pk} | Currer (A _{rms} or A | 15 | STATE OF THE PARTY |
| _A | y TEN | JEH STE | milie - while | mr. mr | 7, 2, | | |
| Supplemen | tary inform | nation: | - A | TEK JE | NITE IN | NALTE | are an |
| et et | 5E* | LIFE CLIFE | WILLEY WALLE A | 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 70, 7, | - 3 | set is |
| 40. | 410000 | 1 2 1 | t it | Jet with | Will Will | They are | C 2/C |
| 5.7.5 | TABLE | : Earthed acce | ssible conductive | part | | Alt S | N/A |
| Supply volta | age (V) | | ER TE BLIFE | Life | | in in | _ |
| Phase(s) | | | [] Single Phase | ; [] Three Ph | nase: [] Delta | [] Wye | |
| Power Disti | ribution Sy | /stem: | □ TN □ | TT JOE |] IT | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| Location | | | | Fault Condition No in IEC Touch current 60990 clause 6.2.2 (mA) | | Com | ment |
| - 1112 | Ne M | 2 m 2 | 1 10 - 10 - 150 1 | | must white white | | |
| Supplemen | tary Inforn | nation: | | | | | |
| 21/2 21 | . 44 | | L A A | - Litter .ci | TE MITE | ine whe | an . |
| 18 S | # JE | nite* inite | WILL MAN | 24, 24 | <u> </u> | at at | 10 |
| 5.8 | TABLE | : Backfeed safe | eguard in battery | backed up s | supplies | In Mile. | N/A |
| Location | | Supply Coltage (V) | Operating and fault condition | Time (s) | Open-circuit voltage (V) | Touch current (A) | ES Class |
| t- TEK | ALTER O | LIER WILLE VI | tr. Mr. M. | , <u> </u> | * - c+ | 10 ⁴ 0 | * -UE* |
| Supplemen | tary inforn | nation: | | | | | |
| WALTER JUNE | IE WALT | MULL MUT | W W | | EX NIEK | LIEK WALTER | WHITE S |
| 6.2.2 | TABLE | : Power source | circuit classifica | ntions | | et et | J [®] P ∧ |
| Location | Ope | rating and fault | Voltage (V) | Current (A) | Max. Power ¹⁾ | Time (S) | PS class |

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| | | EN IEC 6 | 2368-1 | | | |
|-------------|-------------------|-------------|------------|----------------|------------|---------------|
| Clause | equirement + Test | ing the | 77 | Result - Remar | ket get | Verdict |
| et sitet si | Normal condition | <15 | | t st w | - 100 m | TEX STE |
| Dry battery | Signal fault | it itelt si | E WILL | Thri Aur | 1415 - 121 | PS1 (declare) |
| | Signal fault | 2/1 - 2/1 | <i>5</i> + | Et 18th | JEK _ JI | _ (deciare |

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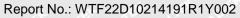
Supplementary information:

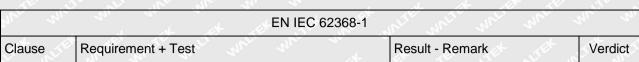
Abbreviation: SC= short circuit

| 6.2.3.1 | TABLE: Determi | nation of Arcing PIS | | | N/A |
|-----------|-------------------|--------------------------------------|----------------------------|------------------|-------------------------|
| Location | | Open circuit voltage after 3 s (Vpk) | Measured r.m.s current (A) | Calculated value | Arcing PIS? Yes / No |
| - 4 | TEK SITEK RITE | White Milit Me | 24, - 24, | | et zet |
| Supplemen | tary information: | | | | |

| 6.2.3.2 | TABLE: Determination of resistive PIS | | | | | |
|-----------|---------------------------------------|-------------------------------|---------------------|-------------------------|--|--|
| Location | | Operating and fault condition | Dissipate power (W) | Arcing PIS? Yes / No | | |
| 71/11 /21 | | EX TE MITE SUIT | 2 - m n | , n | | |
| Supplemen | tary information: | | | | | |
| * 0 | - TEN TEN | LIER WILL WALL WALL | Mr. Mr. Mr. And And | - J. | | |

| 8.5.5 | TABLE: High pressure lamp | | | | | | |
|-----------|---------------------------|--------------------|------------------|-------------------------------------|--|--|--|
| Lamp manu | ufacturer | Lamp type | Explosion method | Longest axis of glass particle (mm) | Particle found beyond 1 m Yes / No | | |
| 7 | A 184 . | CEX LIEX OLITEX ON | it - when when a | L. 1/1. 2 | .L | | |
| Supplemen | tary information | : | · | | | | |
| et let | TEK LIFE | WILL MALLE WAL | 211. 211. 21. | الله الحد الم | - Let St | | |





| 9.6 TA | BLE: Tempe | ratare mea | - Juliani | o for whole | os power | transmitte | | N/A |
|-----------------|----------------|-------------------|----------------|----------------------|----------------|-----------------------|----------------|---------------------------|
| Supply voltage | (V) | | : Etc. | | | | 10. 1 | _ |
| Max. transmit p | ower of transr | mitter (W) | : | | of the | CLIER OF | LIER WY | _ |
| | 11, 5 1 5 5 | eiver and contact | | eiver and contact | | ver and at of 2 mm | | eiver and at e of 5 mm |
| Foreign objec | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) |
| L 35 X | × 201- | JEK - JIE | NATE. | 11/12 - 11 | | - in | <u>~</u> | J+ - J |
| Supplementary | information: | | | | | | | |

| 5.4.1.4, 9.3, B.1.5, B.2.6 | erature mea | asurem | ents | | | | WETERP WILL |
|-------------------------------|--------------------------|-------------------|------------------------|-------------------------------|---------------------|-------------------------------|------------------|
| Supply voltage (V) | | : | 3Vdc | 1/1 - 1/2 | * | | _ |
| Ambient temperature during to | est T _{amb} (°C |) : | 45.0 | WILLEY WAS | NI III | anc - an | _ |
| Maximum measured temperat | ure <i>T</i> of pa | rt/at: | | Allowed T _{max} (°C) | | | |
| Internal wire | 6-1 | | 47.6 | J. 188 | | AN THE | 80 |
| PCB near C1 | | | 49.4 | in. | | - - | 130 |
| PCB near U1 | r | yk _\ | 52.1 | antitee an | The Mile | Musica. M | 130 |
| PCB near D3 | ry Will | 20 | 49.4 | 7 EV 5 | et - Tek | NITE IN | 130 |
| Enclosure inside | EX WILLER | MILLE | 48.6 | uraur | 2/1 | 74 J | Ref. |
| Ambient | T. | , Et | 45.0 | iek u nliek | WY TE W | The Albert | 21/2 21 |
| Accessible part | mr. M | | an an | + 11+ | TEK IT | EX NUTEX | WITER WY |
| Plastic outside | alifek mi | LEK WIL | 27.7 | 11/15 1 | | | .77 |
| Ambient | الد عاد | ی - | 25.0 | MITE NO | ER WILLE | mri- m | 77/2 |
| Temperature T of winding: | t ₁ (°C) | R ₁ (Ω | 2) t ₂ (°C) | $R_2(\Omega)$ | T (°C) | Allowed T _{max} (°C) | Insulation class |
| MILIE WILLE MALL WILL | Mr. | n. | | EK JEK | ALTER MAL | EK WILTER | mriie m |
| | | | | | | | |

Supplementary information:

- 1. Tma should be considered as directed by 66pplicable requirement.
- 2. Tma is not included in assessment of Touch Temperatures (Clause 9).
- 3. The temperatures were measured under worst case normal mode as described in B.2.5 at voltages as

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| 20,000 | | EN IEC 62368-1 | 245 24 |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

above.

- 4. With a specified maximum ambient temperature and test temperature of 45°C.
- 5. When tested for touch temperature limit of clause 9, the ambient was conducted between 20-30°C.

| B.2.5 | JALIA TA | ABLE: In | put test | 7/1 | A TEX | الله المثالة | A WITER | WALTER WALTER WA | | | |
|---------|----------------------------|----------|---------------|---------------|-------------------|--------------|-------------|------------------|--|--|--|
| U (V) | Hz | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status | | | |
| 3.00 | dc | 0.021 | 70 | 0.063 | y with hi | ER TIE | White My | Normal working | | | |
| Suppler | Supplementary information: | | | | | | | | | | |
| The ma | ximum | measure | d current und | er rated volt | tage did not exce | eed 110% of | the rated c | urrent. | | | |

| B.3, B.4 | TAB | LE: Abnormal | operating | and fault | condition t | ests | | Р |
|--------------|--|---------------------------|--------------------------|--------------|-------------|------------------------|---|---|
| Ambient tem | perati | ure T _{amb} (°C) | 7, 7, | 1/1 | : | 25°C, if r | not specified | _ |
| Power source | e for I | EUT: Manufact | urer, model/ | type, outp | outrating: | - 1/1 | _ | |
| Component N | No. | Condition | Supply voltage (V) | Test time | Fuse no. | Fuse current (A) | Observatio | n |
| Battery | * 11 ** | Reverse | 3 | 10min | | 7 | Unit does't work, No damage, no hazards | |
| C1 | کاری | SC | 3.0 | 10min | Mrri M | | Unit shutdown immediate No damage, no hazards | |
| R1 | THE STATE OF THE S | SC | 3.0 | 10min | ALTE - WILL | UMLE. | Unit shutdown imm No damage, no haz | |
| U1 pin1-7 | 7 | SC | 3.0 | 10min | EK LIER | WINLE V | Unit shutdown imm No damage, no haz | • |

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

- 1) S-C: Short-circuited;
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

| M.3 | TABLE: Pro | TABLE: Protection circuits for batteries provided within the equipment N/A | | | | | | | | | |
|--|------------|--|--|--|--|--|--|--|--|--|--|
| Is it possible to install the battery in a reverse polarity position?: | | | | | | | | | | | |
| Equipment Sp | ng | | | | | | | | | | |



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| min m | Will the state of | EN IEC 62368-1 | ry Mry Ch |
|--------|--------------------|-----------------|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | | | | | 000 | | | | .0 | | |
|------------------|---------------|------------------------------|-----------------------|-------------------|-----------------------|----------|--------------|-------------------------|---------------|-------------|--|--|
| 77 | | | of | Alt . | N . N | 22 | "AVE. | July. | 70. 1 | | | |
| | | | Vo | ltage (V) | | | | | Current (A) | | | |
| | | THE THE STATE WITH WALL WELL | | | | | | 11/2 | 111, 11, | * | | |
| | | | Battery specification | | | | | | | | | |
| | | Non-recharge | able | batteries | | | Rech | nargeab | le batteries | | | |
| | | Discharging | | ntentional | Charging | | ging | | Discharging | Reverse | | |
| Manufactu | current (A) |) charging current (A) | | Voltage (V) Curre | | ent (A) | current (A) | charging current (A) | | | | |
| - A - | alt alt | TEL STE | ik onlätik un | | 4 | " in | | -24- | 7 | x - ut | | |
| Note: The test | s of M.3.2 ar | e applicable or | ıly w | hen above | appropria | te d | ata is | not ava | ilable. | | | |
| Specified batte | ery temperat | cure (°C) | | | 2/2 | -7/1 | | ₩. | - 14 10 | ¢. | | |
| Component No. | | | | Test time | Temp. (°C) | | rrent (A) | Voltag (V) | e Obse | ervation | | |
| T. Mr. | an - an | , · | ٠ | 18th | alife <mark>lt</mark> | JEK 1115 | | 100 | in min. | the m | | |
| Supplementar | y information | : | | | | | | | | | | |
| Abbreviation: | SC= short ci | rcuit; OC= ope | n cir | cuit NL= n | o chemica | al lea | akage | ; NS= n | o spillage of | liquid; NE= | | |

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

| | TABLE: Charging safeguards for equipment containing a secondary lithium battery | | | | | | | | | |
|---|---|---------------------|----------------------|----------------------|---------------|--------------|----------|--|--|--|
| Maximum spe | cified ch | arging voltage | e (V) | 711 7 | | at alt | | | | |
| Maximum specified charging current (A): | | | | | | | | | | |
| Highest specif | fied char | ging temperat | ure (°C) | | * - LE* | TER STEE OUT | | | | |
| Lowest specifi | ied charç | ging temperati | ure (°C) | | : = -11 | 701 7 | | | | |
| Battery | | Operating | | Measurement | | Observation | n | | | |
| manufacturer/t | type | and fault condition | Charging voltage (V) | Charging current (A) | Temp. (°C) | | | | | |
| xt | 16th | JEN LIER | MITE WAL | 21/2, 21 | . <u>'a</u> n | 4. | <i>*</i> | | | |

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

| Q.1 | TABLE: Circuits intended for interconnection with building wiring (LPS) | | | | | | | | | |
|-------------------|---|---------------------|-----------|-----------------|---------|------------|-------|--|--|--|
| Output Circuit | Condition | U _{oc} (V) | Time (s) | I _{sc} | (A) | S (VA) | | | | |
| | Condition | O _{oc} (V) | 11116 (3) | Meas. | Limit | Meas. | Limit | | | |
| - 1000 1 | u m - m | A | 77.5 | CIEN OLIF | e inter | matic with | 410.5 | | | |



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| 11/2 21 | The state of | EN IEC 62368-1 | Write Mulie Aug M | in the the |
|---------|--------------------|----------------|-------------------|------------|
| Clause | Requirement + Test | W. W. W. | Result - Remark | Verdict |

| Suppleme | entary Info | rmation | : | | | | | | | | | |
|----------|-------------|-------------|------|------|------|-------|-----|------|----------|-----|-----|----|
| 20. | V | | , et | NET. | JEK. | LUTER | Men | w.r. | The same | 'an | 10, | 77 |

| erial Thickness (mm) | Probe Figure V.2 | Force (N) | Test Duration (s) | Observation No reduction the clearances and | | |
|-----------------------|----------------------|----------------------------|--------------------------------|--|--|--|
| MUNITER WILLIAM | 3 (1) | 10 | nite 5 mil | No reduction the clearances and | | |
| | Figure V.2 | 10 | 5 | No reduction the clearances and creepage distances | | |
| See table 4.1.2 | WU. | 250 | 5 | No cracking, no damage. | | |
| See table 4.1.2 | MULLE | 250 | W 5 | No cracking, no damage. | | |
| stic* See table 4.1.2 | NITE V | 250 | 5 | No cracking, no damage. | | |
| s | 4.1.2 tic* See table | 4.1.2 tic* See table 4.1.2 | 4.1.2 tic* See table 4.1.2 250 | 4.1.2 tic* See table | | |

| | | | The with with the August Augus |
|----------|--|--|--|
| Material | erial Thickness (mm) Height Observation (mm) | | Observation |
| Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |
| Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |
| Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |
| | Plastic* | Plastic* See table 4.1.2 Plastic* See table 4.1.2 | Plastic* See table 4.1.2 1300 Plastic* See table 4.1.2 1300 |

*Test was performed on product with each source listed in table 4.1.2.

| T.7 T. | ABLE: Drop test | At THE | LIEK NITER | WILL MILL MULL ME A | Р |
|-----------------------------|-----------------|-----------------|-------------------------|-------------------------|----------|
| Location/part | Material | Thickness (mm) | Height (mm) | Observation | |
| Enclosure bottom (T.7) | Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. | <i>,</i> |
| Enclosure top (T.7) | | | No cracking, no damage. | - (j' | |
| Enclosure Plastic* See tabl | | See table 4.1.2 | 1000 | No cracking, no damage. | 2/1 |



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| | EN | IEC 62368-1 | | | |
|-----------|--------------------------|-------------|--------------|----------|----------|
| Clause | Requirement + Test | | Result - Rem | ark | Verdict |
| side (T. | 7) if mile we want | EL MULLE | rest at | ile in a | THE LIFE |
| Supplemen | ntary information: | | | | |
| LITER . | RLIE WILL WALL WALL WALL | 20 | L St St | t Jet Je | NLIE . |

| T.8 TABLE: Stress relief test | | | | | | | |
|-------------------------------|-----------------|-----------------|------------------------------|-----------------|---|--|--|
| Location/Part | Material | Thickness (mm) | Oven Temperatur e (°C) | Duration (h) | Observation | | |
| Enclosure | Plastic* | See table 4.1.2 | 70°C | 7h | No distortion, no softening, no cracking. | | |
| Supplementa | ry information: | | | | | | |

*Test was performed on product with each source listed in table 4.1.2.

| Х | TABLE: Alternati | ve method for determining minimum clearances distances N/A | | | | | |
|----------|-----------------------|--|---------------------|---------------------|--|--|--|
| Clearand | ce distanced between: | Peak of working voltage (V) | Required cl (mm) | Measured cl (mm) | | | |
| - WITE | white he we | 2 Z Z | | WITE WILL WHITE | | | |
| Supplem | nentary information: | | | | | | |
| UNITY S | We we want | A THE | ITEK SITE WITE N | The world when a | | | |

| 4.1.2 | TABLE: Critical components information | | | | | | | |
|----------------------|--|---------------------|-------------------------------------|-----------------|-------------------------------------|--|--|--|
| Object / part No. | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | | | |
| Plastic enclosure | FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV | AC310(+) | V-2, 60°C, min. thickness 0.8mm. | UL 94 | UL E162823 | | | |
| РСВ | Interchangeable | Interchangeabl e | Min. V-1 , 130°C | UL 796 UL 94 | UL" | | | |
| Internal wire | Interchangeable | Interchangeabl e | Min. 30AWG , 80°C | UL 796 UL 94 | UL NATER | | | |

Supplementary information:

Supplementary information:

¹⁾ License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



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Photo Documentation

Reference No.: WTF22D10214191R1Y002



Figure 1: Overall view



Figure 2: Overall view

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Reference No.: WTF22D10214191R1Y002



Figure 3: Internal view



Figure 4: Internal view



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Photo Documentation

Reference No.: WTF22D10214191R1Y002



Figure 5: Internal view

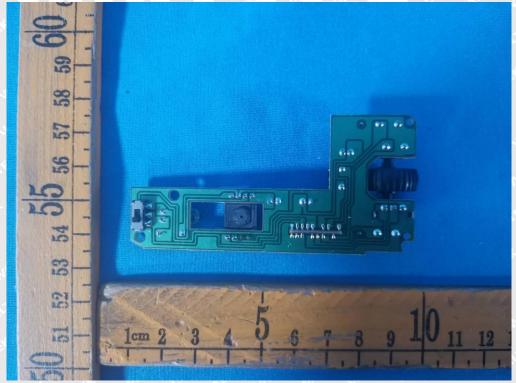


Figure 6: PCB view



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Photo Documentation

Reference No.: WTF22D10214191R1Y002

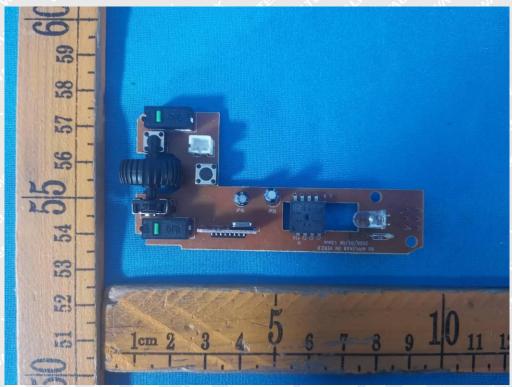


Figure 7: PCB view

===== End of Report ======





TEST REPORT

Report No..... : WTF22D10214191Y002

Applicant.....: Mid Ocean Brands B.V.

Hong Kong

Manufacturer : 114628

Address.....: : --

Product.....: Wireless mouse

Model(s): MO8827, MO8412, MO9747, MO9785

Total pages.....: 69 pages and 4 pages of photo.

Standards.....: EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment -

Part 1:Safety requirements

Date of Receipt sample : 2022-10-28

Date of Test.....: 2022-10-28 to 2022-11-21

Date of Issue..... : 2022-11-22

Test Result.....: : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By: Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City,

Guangdong, China Tel: +86-769-2267 6998 Fax: +86-769-2267 6828

Compiled by:

Lucas Cao / Project Engineer

Approved by:

Sam Qi / Designated Reviewer



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| the series were all the series | |
|---|--|
| Test Item description Wireless m | ouse unit with the surface of the su |
| Trade Mark(s) MOB | |
| Model/Type reference MO8827, N | MO8412, MO9747, MO9785 |
| Ratings | |
| Remark: Whether parts of tests for the product have been subcon Yes No If Yes, list the related test items and lab information: Test items: Lab information: | atracted to other labs: |
| Summary of testing: | t the text that they write with |
| Tests performed (name of test and test clause): - EN IEC 62368-1:2020+A11:2020 The submitted samples were found to comply with the requirements of above specification. | Testing location: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China |
| Summary of compliance with National Differences (List of countries addressed: National Differences and Cochecked. | |
| ☐ The product fulfils the requirements of EN IEC 6236 | 8-1:2020+A11:2020. |
| Use of uncertainty of measurement for decisions of | hen comparing the measurement result with the ndard. The decisions on conformity are made |
| ☐ Other:(to be specified, for example when required requirements apply) | by the standard or client, or if national accreditation |
| Information on uncertainty of measurement: | |
| The uncertainties of measurement are calculated by the OD-5014 for test equipment and application of test met IECEE. | |
| IEC Guide 115 provides guidance on the application of the decision rule when reporting test results within IECE measurement uncertainty for measurements is not nece customer. | EE scheme, noting that the reporting of the |
| Calculations leading to the reported values are on file withe testing. | vith the NCB and testing laboratory that conducted |
| A WILLER MULTER MULTER MULT MULT MILL M | |





Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

MOB/MO8827 PO BOX 644 6710 BP (NL) Made in China

Frequency range: 2402-2480MHz Maximum RF power: 10mW(EIRP)

PO 41-108240







- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- 2. The CE, UKCA marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



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| Test item particulars: | The still action which was and |
|--|---|
| Product group: | end product built-in component |
| Classification of use by: | |
| Classification of use by | Instructed person |
| Marie Marie Mar And And And And | Skilled person |
| Supply connection: | ☐ AC mains ☐ DC mains |
| Cappiy Commedian | ☐ not mains connected: |
| at the feet that the state | ☐ Sest ☐ Est ☐ Es |
| Supply tolerance: | +10%/-10% |
| the state of the state | +20%/-15% |
| THE MITTER WALL WALL WALL WALL WALL | +%/% |
| Mr. M. W. T. A. Let | None |
| Supply connection – type: | pluggable equipment type A - |
| We my my my | non-detachable supply cord |
| THE TEX STEEL NITER MITTER MINITER WAS | appliance coupler |
| and who are the | direct plug-in |
| t let tet tet stet stret nuter white | pluggable equipment type B - |
| with the the the the | non-detachable supply cord |
| t at let let liet liet suffer. | ☐ appliance coupler ☐ permanent connection |
| write while while whe will the | ☐ mating connector ☒ other: not Mains connected |
| Considered current rating of protective device | UK: 13 A; Others: 16 A |
| | Location: Duilding equipment |
| | N/A □ |
| Equipment mobility: | movable hand-held transportable |
| An an at the street | ☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted |
| LIFER NITER MITE WALL MALL WALL | other: |
| Overvoltage category (OVC): | |
| TEX LIER NITER WITE WHILE WAS | OVC IV other: not Mains connected |
| Class of equipment:: | ☐ Class II ☐ Class III |
| Special installation location: | Not classified ☐N/A ☐ restricted access area |
| Special installation location | outdoor location |
| Pollution degree (PD): | □ PD 1 □ PD 3 |
| Manufacturer's specified T _{ma} : | 45°C Outdoor: minimum°C |
| IP protection class: | |
| Power systems: | □ TN □ TT □ ITV ₁₋₁ |
| it is is is not w | ☐ not Mains connected |
| Altitude during operation (m): | ☐ 2000 m or less ☐ _5000_m |
| Altitude of test laboratory (m): | |
| Mass of equipment (kg): | Approximately: 0.047kg |



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| Possible test case verdicts: - test case does not apply to the test object: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail) Testing: Date of receipt of test item | 8 to 2022-11-21 I to the report. |
|---|---|
| - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail) Testing: Date of receipt of test item | 8 to 2022-11-21 I to the report. |
| - test object does not meet the requirement: F (Fail) Testing: Date of receipt of test item | 8 to 2022-11-21 I to the report. |
| Testing: Date of receipt of test item | 8 to 2022-11-21 I to the report. |
| Date (s) of performance of tests | 8 to 2022-11-21 I to the report. |
| Date (s) of performance of tests | 8 to 2022-11-21 I to the report. |
| General remarks: "(see Enclosure #)" refers to additional information appende "(see appended table)" refers to a table appended to the report a ☐ comma / ☒ point is used as General Product Information: Product Description: 1. The EUT covered by this report is a Wireless mouse use internal dry battery. 2. The manufacturer specified maximum ambient temperat | I to the report. |
| "(see Enclosure #)" refers to additional information appende "(see appended table)" refers to a table appended to the rep Throughout this report a ☐ comma / ☒ point is used as General Product Information: Product Description: 1. The EUT covered by this report is a Wireless mouse use internal dry battery. 2. The manufacturer specified maximum ambient temperat | |
| "(see appended table)" refers to a table appended to the report a ☐ comma / ☒ point is used as General Product Information: Product Description: 1. The EUT covered by this report is a Wireless mouse use internal dry battery. 2. The manufacturer specified maximum ambient temperate | |
| General Product Information: Product Description: 1. The EUT covered by this report is a Wireless mouse use internal dry battery. 2. The manufacturer specified maximum ambient temperat | |
| Product Description: 1. The EUT covered by this report is a Wireless mouse use internal dry battery. 2. The manufacturer specified maximum ambient temperat | the decimal separator. |
| The EUT covered by this report is a Wireless mouse use internal dry battery. The manufacturer specified maximum ambient temperat | A A A A A |
| internal dry battery. 2. The manufacturer specified maximum ambient temperat | mile while while when you |
| | as information apparatus. It is supplied by |
| 2. The experified elititude is up to end including 2000 to about | re is 45°C. |
| 3. The specified altitude is up to and including 2000 m about | e sea level. |
| Model Differences | |
| 1. All these models are same as each other only except for | ne model name, appearance in colour. |
| 2. The model MO9785 was selected for all testing. | |

| OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS | | | | | |
|---|------------------------------|--------------------------------------|-------------------|-------------------|--|
| Clause | Possible Hazard | OLIEK WITER | White white | Mer. Mer. | |
| 5 | Electrically-caused injury | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| (e.g. ES3: Primary circuit) | (e.g. Ordinary) | В | S | R | |
| Ordinary person | ES1: All circuit | N/A | N/A | N/A | |
| 6 Electrically-caused fire | | | | | |
| Class and Energy Source | Material part | | Safeguards | | |
| (e.g. PS2: 100 Watt circuit) | (e.g. Printed board) | В | 1 st S | 2 nd S | |
| All components/materials | PS1: All circuit | N/A N/A N/A | | N/A | |
| 7 | Injury caused by hazardous s | njury caused by hazardous substances | | | |
| Class and Energy Source | Body Part | art Safeguards | | | |



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| (e.g. Ozone) | (e.g., Skilled) | В | S | R | |
|--------------------------------|----------------------------|------------|------------|-----------|--|
| N/A | N/A | N/A | N/A | N/A | |
| 8 | Mechanically-caused injury | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| (e.g. MS3: Plastic fan blades) | (e.g. Ordinary) | В | S | R | |
| MS1: Mass of the unit <7kg | Ordinary | N/A | N/A | N/A | |
| MS1: Smooth Edges and corners | Ordinary | N/A | N/A | N/A | |
| MS3:Wall-mount | Ordinary | N/A | N/A | See 8.7.1 | |
| 9 | Thermal burn | | | | |
| Class and Energy Source | Body Part | Safeguards | | | |
| (e.g. TS1: Keyboard caps) | (e.g., Ordinary) | В | S | R | |
| TS1: Plastic enclosure | Ordinary | N/A | N/A | N/A | |
| TS3: Internal parts/circuits | Ordinary | N/A | N/A | Enclosure | |
| 10 | Radiation | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| (e.g. RS1: PMP sound output) | (e.g., Ordinary) | В | S | R | |
| RS1: LED for indicating | Ordinary | N/A | N/A | N/A | |

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Supplementary Information:

"B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard

ENERGY SOURCE DIAGRAM Indicate which energy sources are included in the energy source diagram. Insert diagram below ☐ ES ☐ PS ☐ MS ☐ TS ☐ RS

See details in ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE



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| ALL MILLS | The sur on a | EN IEC 62368-1 | TEX MILITER VANLERY | Write Mr. | ALL L |
|-----------|--------------------|----------------|---------------------|-----------|---------|
| Clause | Requirement + Test | May A Co | Result - Remark | LIEK OLIE | Verdict |

| 4 | GENERAL REQUIREMENTS | | P | |
|---|--|--|-------------------------|--|
| 4.1.1 | Acceptance of materials, components and subassemblies | (See appended table 4.1.2) | P | |
| ce st. wi Co IE ur in Ar | | Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G | P Whitek | |
| 4.1.3 | Equipment design and construction | Evaluation of safeguards regarding preventing access to ES3 parts, limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered. | PIN WALTER WALTER | |
| 4.1.4 | Specified ambient temperature for outdoor use (°C) | Indoor use only | | |
| 4.1.5 | Constructions and components not specifically covered | No constructions and components. | | |
| 4.1.8 | Liquids and liquid filled components (LFC) No such parts. | | N/A | |
| 4.1.15 | Markings and instructions | (See Annex F) | NI P | |
| 4.4.3 | Safeguard robustness | See below | Р | |
| 4.4.3.1 | General | CEL LIET OLIER WITER AND | P | |
| 4.4.3.2 | Steady force tests | (See Annex T.2 T.4and T.5). | P | |
| 4.4.3.3 | Drop tests | (See Annex T.7) | νP | |
| 4.4.3.4 | Impact tests | (See Annex T.6) | Р | |
| 4.4.3.5 | | | N/A | |
| 4.4.3.6 | Glass impact tests | No such glass used. | N/A | |
| 4.4.3.7 | Glass fixation tests | No such parts. | N/A | |
| LITER | Glass impact test (1J) | LET THE THE STR | N/A | |
| 2,, | Push/pull test (10 N) | and any and any | N/A | |
| 4.4.3.8 | Thermoplastic material tests | (See Annex T.8) | P | |



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| JET JIN | The strain of th | the state of the s | |
|---------|--|--|---------|
| 211 | EN IEC 6 | 2368-1 | |
| Clause | Requirement + Test | Result - Remark | Verdict |
| 4.4.3.9 | Air comprising a safeguard | The state of the s | N/A |
| W W | 1 1111111111111111111111111111111111111 | | - 10° |

| Clause | Requirement + Test | Result - Remark | Verdict |
|----------|---|---|----------|
| 70, | I A A A A A A A A A A A A A A A A A A A | The Me Me to | 4 |
| 4.4.3.9 | Air comprising a safeguard | LEK TEK TEK NITEK | N/A |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness | After tests of 4.4.3.2, 4.4.3.3, 4.4.3.4and 4.4.3.8, no safeguard damaged. Class 3 energy sources do not become accessible to an ordinary person or to an instructed person and all other safeguards do remain effective. | TEEN MAN |
| 4.4.4 | Displacement of a safeguard by an insulating liquid | No such liquid. | N/A |
| 4.4.5 | Safety interlocks | No such parts. | N/A |
| 4.5 | Explosion | the while and the Au | Р |
| 4.5.1 | General White white white white | No explosion occurs during normal/abnormal operation and single fault conditions | P |
| 4.5.2 | No explosion during normal/abnormal operating condition | (See Clause B.2, B.3) | N P |
| Vr. AVE | No harm by explosion during single fault conditions | (See Clause B.4) | P. D. |
| 4.6 | Fixing of conductors | See below | E P |
| 21, | Fix conductors not to defeat a safeguard | with my my m | Р |
| NITER | Compliance is checked by test | (See Clause T.2) | PE |
| 4.7 | Equipment for direct insertion into mains socket | quipment for direct insertion into mains socket-outlets | |
| 4.7.2 | Mains plug part complies with relevant standard: | LIET OLIER WIFE WHILE | N/A |
| 4.7.3 | Torque (Nm) | and the state of | N/A |
| 4.8 | Equipment containing coin/button cell batteries | THE WALTE WALL WALL WA | N/A |
| 4.8.1 | General | the text text acts | N/A |
| 4.8.2 | Instructional safeguard: | Mur. Mur. My An. | N/A |
| 4.8.3 | Battery compartment door/cover construction | THE STEE STIEF MITTER | N/A |
| | Open torque test | Mr. Mr. Mr. | N/A |
| 4.8.4.2 | Stress relief test | LIER MITER WHITE WHITE W | N/A |
| 4.8.4.3 | Battery replacement test | e at at all a | N/A |
| 4.8.4.4 | Drop test | murit mer and and | N/A |
| 4.8.4.5 | Impact test | the the time still | N/A |
| 4.8.4.6 | Crush test | My My My M | N/A |
| 4.8.5 | Compliance | TEX TEX STEE STEE | N/A |



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| EN IEC 62368-1 | | | | | |
|----------------|--|------------------------------|---------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |
| TER | 30N force test with test probe | it and any any | N/A | | |
| 11/2 - 11 | 20N force test with test hook | WILLIAM WEEK MULL MILL M | N/A | | |
| 4.9 | Likelihood of fire or shock due to entry | of conductive object | N/A | | |
| 4.10 | Component requirements | her me me me | N/A | | |
| 4.10.1 | Disconnect Device | ITEX ALTE MITER WALTER WALLE | N/A | | |
| 4.10.2 | Switches and relays | | N/A | | |

| 5 | ELECTRICALLY-CAUSED INJURY | | P |
|------------|---|---|---------|
| 5.2 | Classification and limits of electrical energy sources | | |
| 5.2.2 | ES1, ES2 and ES3 limits | JEK STEK KLIER SKIER SKIER SKY | Pin |
| 5.2.2.2 | Steady-state voltage and current limits: | (See appended table 5.2) | P |
| 5.2.2.3 | Capacitance limits | No capacitance | N/A |
| 5.2.2.4 | Single pulse limits | No single pulse introduced | N/A |
| 5.2.2.5 | Limits for repetitive pulses | No repetitive pulses introduced | N/A |
| 5.2.2.6 | Ringing signals | No such ringing signals within the EUT | N/A |
| 5.2.2.7 | Audio signals | No audio signals used | N/A |
| 5.3 | Protection against electrical energy sources | interior | Р |
| 5.3.1 Sun | General Requirements for accessible parts to ordinary, instructed and skilled persons | See only 4.3 and 5.3 to 5.5 which applies to protection between the accessible parts and hazardous parts of other circuits. | ALTER O |
| 5.3.1 a) | Accessible ES1/ES2 derived from ES2/ES3 circuits | et et set set s | P |
| 5.3.1 b) | Skilled persons not unintentional contact ES3 bare conductors | | N/A |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | Only ES1 circuit can be accessed for this product | P |
| 21/2 21 | Accessibility to outdoor equipment bare parts | Will Mer Mer My | N/A |
| 5.3.2.2 | Contact requirements | TEX TEX STEX STEELS | N/A |
| , | Test with test probe from Annex V | 1 14 10 10 10 10 10 10 10 10 10 10 10 10 10 | - |
| 5.3.2.2 a) | Air gap – electric strength test potential (V) | THE NITE WITE WATER WAY | N/A |
| 5.3.2.2 b) | Air gap – distance (mm) | | N/A |
| 5.3.2.3 | Compliance | WHITE WHITE WALL WALL | N/A |
| 5.3.2.4 | Terminals for connecting stripped wire | | N/A |



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| 11110 | The the the | EN IEC 62368-1 | TEX WILLER | MULTE MILE | 1/1/2/2 |
|--------|--------------------|----------------|-----------------|------------|---------|
| Clause | Requirement + Test | Mr. Andrews | Result - Remark | LIEK SLIE | Verdict |

| 5.4 | Insulation materials and requirements | | Р |
|-------------|---|---|-----|
| 5.4.1.2 | Properties of insulating material | No insulation as a safeguard. | N/A |
| 5.4.1.3 | Material is non-hygroscopic | CEX LIEX NUTER OUTER ON | N/A |
| 5.4.1.4 | Maximum operating temperature for insulating materials: | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | K P |
| 5.4.1.5 | Pollution degrees | PD2 considered | Р |
| 5.4.1.5.2 | Test for pollution degree 1 environment and for an insulating compound | NATER WATER WATER WATER | N/A |
| 5.4.1.5.3 | Thermal cycling test | LIER SLIEF WILL WALLS | N/A |
| 5.4.1.6 | Insulation in transformers with varying dimensions | and the second | N/A |
| 5.4.1.7 | Insulation in circuits generating starting pulses | er writer more more in | N/A |
| 5.4.1.8 | Determination of working voltage | . It let set set | N/A |
| 5.4.1.9 | Insulating surfaces | mi my my m | N/A |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | Writes Mrites Miles Miles | N/A |
| 5.4.1.10.2 | Vicat test | THE STIFF MITTER OF | N/A |
| 5.4.1.10.3 | Ball pressure test | -1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| 5.4.2 | Clearances | " THE WALL WHILE WA | N/A |
| 5.4.2.1 | General requirements | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| Mr. A | Clearances in circuits connected to AC Mains, Alternative method | MILL MILL MAL MAN | N/A |
| 5.4.2.2 | Procedure 1 for determining clearance | THE MULL MULL MULL | N/A |
| TEK STE | Temporary overvoltage | of let let let o | _ |
| 5.4.2.3 | Procedure 2 for determining clearance | me me me | N/A |
| 5.4.2.3.2.2 | a.c. mains transient voltage | - LIEX NLIER MLTER MILE | _ |
| 5.4.2.3.2.3 | d.c. mains transient voltage | The The State of | _ |
| 5.4.2.3.2.4 | External circuit transient voltage | NETER WALTER WALLE WALL | _ |
| 5.4.2.3.2.5 | Transient voltage determined by measurement: | at let get | _ |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test | of the tit iter is | N/A |
| 5.4.2.5 | Multiplication factors for clearances and test voltages | whi whi will will | N/A |
| 5.4.2.6 | Clearance measurement | min my my min | N/A |
| 5.4.3 | Creepage distances | et et tet set | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------|---|----------------------|---------|
| Cidado | Troquioment (Trock | Troodic Tromain | Volume |
| 5.4.3.1 | General | at all life | N/A |
| 5.4.3.3 | Material group | every men men | _ |
| 5.4.3.4 | Creepage distances measurement | TEX LIEK NITE IN | N/A |
| 5.4.4 | Solid insulation | 111 11 | N/A |
| 5.4.4.1 | General requirements | e white white white | N/A |
| 5.4.4.2 | Minimum distance through insulation | at at at | N/A |
| 5.4.4.3 | Insulating compound forming solid insulation | MULL MAL MULL | N/A |
| 5.4.4.4 | Solid insulation in semiconductor devices | TEX TEX STEEL O | N/A |
| 5.4.4.5 | Insulating compound forming cemented joints | 1 5 Mr. 20, 20, | N/A |
| 5.4.4.6 | Thin sheet material | TEX NITER WITER WALL | N/A |
| 5.4.4.6.1 | General requirements | The second second | N/A |
| 5.4.4.6.2 | Separable thin sheet material | WILL MALL WALL | N/A |
| - LIEN . | Number of layers (pcs): | at at the | N/A |
| 5.4.4.6.3 | Non-separable thin sheet material | mr. Mur. Mur. A | N/A |
| NITER NALL | Number of layers (pcs) | LIFE OF STEEL OF | N/A |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material | | N/A |
| 5.4.4.6.5 | Mandrel test | Me Me M | N/A |
| 5.4.4.7 | Solid insulation in wound components | ALTER INLIER MALTER | N/A |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V) | TEX STEEL STEEL OF | N/A |
| ITEK WALTE | Alternative by electric strength test, tested voltage (V), K _R | Et liet sliet mi | EL N/A |
| 5.4.5 | Antenna terminal insulation | W 4 12 | N/A |
| 5.4.5.1 | General | I WILL MALLE WALLE | N/A |
| 5.4.5.2 | Voltage surge test | at at let | N/A |
| 5.4.5.3 | Insulation resistance (M Ω): | mer mer mer | N/A |
| NUTER NIVE | Electric strength test | TER TER STEEL OF | N/A |
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard | et text rest with | N/A |
| 5.4.7 | Tests for semiconductor components and for cemented joints | We are the | N/A |
| 5.4.8 | Humidity conditioning | whi the the | N/A |



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| EN IEC 62368-1 | | | |
|----------------|--|------------------------|------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 10, | the text and the second amount of the second | Wer Mr. M. 1 | <u> </u> |
| | Relative humidity (%), temperature (°C), duration (h) | WILER MILIER MILIER MI | - Terr |
| 5.4.9 | Electric strength test | at at set se | N/A |
| 5.4.9.1 | Test procedure for type test of solid insulation: | i mer me m | N/A |
| 5.4.9.2 | Test procedure for routine test | to TEN TIEN WITER | N/A |
| 5.4.10 | Safeguards against transient voltages from external circuits | Tex Tex Tex | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | my my | N/A |
| 5.4.10.2 | Test methods | LIER SLIER MILES MIL | N/A |
| 5.4.10.2.1 | General | . 4 16 | N/A |
| 5.4.10.2.2 | Impulse test | ET MITE MILIT WALL | N/A |
| 5.4.10.2.3 | Steady-state test | at let let | N/A |
| 5.4.10.3 | Verification for insulation breakdown for impulse test | which will mind the | N/A |
| 5.4.11 | Separation between external circuits and earth | Will Mar My | N/A |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | EL MILIER WILL | N/A |
| 5.4.11.2 | Requirements | THE LIFE | N/A |
| L STEEL S | SPDs bridge separation between external circuit and earth | THE THE THE | N/A |
| - C | Rated operating voltage U _{op} (V) | Mr. Mr. Mr. A. | _ |
| uncie unc | Nominal voltage U _{peak} (V) | LIEF SLIEF WITE WA | × _ |
| et de | Max increase due to variation ΔU _{sp} : | | <u> </u> |
| The The | Max increase due to ageing ΔU _{sa} | IEL WALLE WALLE WALL | -2 ₁₁ |
| 5.4.11.3 | Test method and compliance: | - et let det | N/A |
| 5.4.12 | Insulating liquid | mer me me | N/A |
| 5.4.12.1 | General requirements | TER ALTER OLITER OF | N/A |
| 5.4.12.2 | Electric strength of an insulating liquid: | 12 11 21 21 21 2 | N/A |
| 5.4.12.3 | Compatibility of an insulating liquid: | LIET WILLE MALIE WAL | N/A |
| 5.4.12.4 | Container for insulating liquid: | at the title | N/A |
| 5.5 | Components as safeguards | MUTL MUT, AME | N/A |
| 5.5.1 | General | TEX LIEX LIFE | N/A |
| 5.5.2 | Capacitors and RC units | m m m | N/A |
| 5.5.2.1 | General requirement | THE JET STEE OF | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|---------|--|---------------------------------------|----------|
| Clause | Requirement + rest | Nesuit - Nemaik | Verdict |
| 5.5.2.2 | Safeguards against capacitor discharge after disconnection of a connector | NLIER WALTER WALTER | N/A |
| 5.5.3 | Transformers | at at let ! | N/A |
| 5.5.4 | Optocouplers | in the the the | N/A |
| 5.5.5 | Relays | t ifet slifet mie | N/A |
| 5.5.6 | Resistors | 111 111 11 | N/A |
| 5.5.7 | SPDs | NUTER MUTER MALTE | on N/A |
| 5.5.8 | Insulation between the mains and an external circuit consisting of a coaxial cable | LIFEK DLIFEK MILIFEK MI | N/A |
| 5.5.9 | Safeguards for socket-outlets in outdoor equipment | 1 | N/A |
| 10 | RCD rated residual operating current (mA) | er write more mer | 2/10 |
| 5.6 | Protective conductor | t et tet stet | N/A |
| 5.6.2 | Requirement for protective conductors | Mr. Mr. M. | N/A |
| 5.6.2.1 | General requirements | LIET STEE WITER | N/A |
| 5.6.2.2 | Colour of insulation | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| 5.6.3 | Requirement for protective earthing conductors | THE WALLE WA | N/A |
| ek lie | Protective earthing conductor size (mm²) | | <u> </u> |
| - TEX | Protective earthing conductor serving as a reinforced safeguard | Mer Mer Mer | N/A |
| M | Protective earthing conductor serving as a double safeguard | must me me | N/A |
| 5.6.4 | Requirements for protective bonding conductors | RETERMINET WALL W | N/A |
| 5.6.4.1 | Protective bonding conductors | et set set s | N/A |
| 1 14 | Protective bonding conductor size (mm²) | mr m m | |
| 5.6.4.2 | Protective current rating (A) | - LITER OLITER MALTE | N/A |
| 5.6.5 | Terminals for protective conductors | 211 22 | N/A |
| 5.6.5.1 | Terminal size for connecting protective earthing conductors (mm) | unite unit unit | N/A |
| er m | Terminal size for connecting protective bonding conductors (mm) | LITER WALTER WALTE WA | N/A |
| 5.6.5.2 | Corrosion | IN LIE WALTER WALT | N/A |
| 5.6.6 | Resistance of the protective bonding system | at the set | N/A |
| 5.6.6.1 | Requirements | MULL MULL MULL | N/A |
| 5.6.6.2 | Test Method: | at at at | N/A |



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|--------------|---|---------|--|--|
| Clause | Requirement + Test Result - Remark | Verdict | | |
| 5.6.6.3 | Resistance (Ω) or voltage drop: | N/A | | |
| 5.6.7 | Reliable connection of a protective earthing conductor | N/A | | |
| 5.6.8 | Functional earthing | N/A | | |
| ET MITE | Conductor size (mm²): | N/A | | |
| | Class II with functional earthing marking | N/A | | |
| MILL A | Appliance inlet cl & cr (mm) | N/A | | |
| 5.7 | Prospective touch voltage, touch current and protective conductor current | nt N/A | | |
| 5.7.2 | Measuring devices and networks | N/A | | |
| 5.7.2.1 | Measurement of touch current | N/A | | |
| 5.7.2.2 | Measurement of voltage | N/A | | |
| 5.7.3 | Equipment set-up, supply connections and earth connections | N/A | | |
| 5.7.4 | Unearthed accessible parts: | N/A | | |
| 5.7.5 | Earthed accessible conductive parts | N/A | | |
| 5.7.6 | Requirements when touch current exceeds ES2 limits | N/A | | |
| MULL | Protective conductor current (mA) | N/A | | |
| t det | Instructional Safeguard: | N/A | | |
| 5.7.7 | Prospective touch voltage and touch current associated with external circuits | N/A | | |
| 5.7.7.1 | Touch current from coaxial cables | N/A | | |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables | N/A | | |
| 5.7.8 | Summation of touch currents from external circuits | N/A | | |
| TIEK TIEK | a) Equipment connected to earthed external circuits, current (mA) | N/A | | |
| JUN J | b) Equipment connected to unearthed external circuits, current (mA) | N/A | | |
| 5.8 | Backfeed safeguard in battery backed up supplies | N/A | | |
| IEK SLIFE | Mains terminal ES | N/A | | |
| -2" | Air gap (mm) | N/A | | |

| Ļ | 6 | ELECTRICALLY- CAUSED FIRE | P- |
|---|-----|------------------------------|-----|
| | 6.2 | Classification of PS and PIS | N P |



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|-----------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.2.2 | Power source circuit classifications: | (See appended table 6.2.2) | P |
| 6.2.3 | Classification of potential ignition sources | Only PS1 | N/A |
| 6.2.3.1 | Arcing PIS | CENT TEN LIER OLIER AL | N/A |
| 6.2.3.2 | Resistive PIS | And | N/A |
| 6.3 | Safeguards against fire under normal operating a conditions | nd abnormal operating | P |
| 6.3.1 | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials | (See appended table B.1.5 and B.3) | NIP P |
| i de di | Combustible materials outside fire enclosure: | The Mary Mary | N/A |
| 6.4 | Safeguards against fire under single fault condition | ons atter with white we | P/N |
| 6.4.1 | Safeguard method | Method by control of fire spread applied, Fire enclosure provided. | P |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | MITER MALIER WALTER WALTER | N/A |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | THE MALTER WALTER OF | N/A |
| 6.4.3.1 | Supplementary safeguards | The Life Williams | N/A |
| 6.4.3.2 | Single Fault Conditions | 11 11 11 11 11 11 11 11 11 11 11 11 11 | N/A |
| MUTTER A | Special conditions for temperature limited by fuse | OLITER WHITE WALLE | N/A |
| 6.4.4 | Control of fire spread in PS1 circuits | at the title | Р |
| 6.4.5 | Control of fire spread in PS2 circuits | Only PS1 | N/A |
| 6.4.5.2 | Supplementary safeguards | EX TEX STEX STEX S | N/A |
| 6.4.6 | Control of fire spread in PS3 circuits | Only PS1 | N/A |
| 6.4.7 | Separation of combustible materials from a PIS | - LIER WIFE WALTER WALTE | N/A |
| 6.4.7.2 | Separation by distance | The state of the | N/A |
| 6.4.7.3 | Separation by a fire barrier | UNLIED WALTE WALL WALL | N/A |
| 6.4.8 | Fire enclosures and fire barriers | Only PS1,no fire enclosures and barriers required | N/A |
| 6.4.8.2 | Fire enclosure and fire barrier material properties | s it it it | N/A |
| 6.4.8.2.1 | Requirements for a fire barrier | Murit Mer Mer Mer Me | N/A |
| 6.4.8.2.2 | Requirements for a fire enclosure | THE STATE STATE | N/A |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | The the text | N/A |



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|----------------|--|------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 20, | I SE SE SEE THE SUIT MITTE | and any and an | |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | LET LET LET NO | N/A |
| 6.4.8.3.2 | Fire barrier dimensions | ver me me m | N/A |
| 6.4.8.3.3 | Top openings and properties | No openings. | N/A |
| A 184 | Openings dimensions (mm) | The Tay | N/A |
| 6.4.8.3.4 | Bottom openings and properties | No openings. | N/A |
| TEX | Openings dimensions (mm): | a at at . | N/A |
| 1112 1 | Flammability tests for the bottom of a fire enclosure | White Author Man M | N/A |
| NITER IN | Instructional Safeguard: | et let let liet life | N/A |
| 6.4.8.3.5 | Side openings and properties | No openings. | N/A |
| II E MALIE | Openings dimensions (mm) | EX STEX STEE SPITE | N/A |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c) | THE STEET OUTER IN | N/A |
| 6.4.8.4 | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating: | TEX LIEK WIFEK WI | N/A |
| 6.4.9 | Flammability of insulating liquid: | 11. 11. 11. | N/A |
| 6.5 | Internal and external wiring | THE MALIE WALLE | W Pun |
| 6.5.1 | General requirements | | P O |
| 6.5.2 | Requirements for interconnection to building wiring | No such wire used | N/A |
| 6.5.3 | Internal wiring size (mm²) for socket-outlets: | entite antite white we | N/A |
| 6.6 | Safeguards against fire due to the connection to | additional equipment | N/A |
| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANCE | S | N/A |
| 7.2 | Reduction of exposure to hazardous substances | in in in | N/A |
| 7.3 | Ozone exposure | * TEX TEX TEX | N/A |

| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANCES | N/A |
|-------|---|-----|
| 7.2 | Reduction of exposure to hazardous substances | N/A |
| 7.3 | Ozone exposure | N/A |
| 7.4 | Use of personal safeguards or personal protective equipment (PPE) | N/A |
| MULL | Personal safeguards and instructions: | _ |
| 7.5 | Use of instructional safeguards and instructions | N/A |
| 12, 1 | Instructional safeguard (ISO 7010) | _ |
| 7.6 | Batteries and their protection circuits | N/A |

| 8 | MECHANICALLY-CAUSED INJURY | w/P |
|-----|--|-----|
| 8.2 | Mechanical energy source classifications | P |



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| all. | EN | IEC 62368-1 | |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 8.3 | Safeguards against mechanical energy sources | | P |
|-------------|---|---|-----|
| 8.4 | Safeguards against parts with sharp edges and c | orners | Р |
| 8.4.1 | Safeguards | TEX STEX STEX STEET SH | N/A |
| at at | Instructional Safeguard | The same of | N/A |
| 8.4.2 | Sharp edges or corners | The sharp edges and corners of the equipment are considered as MS1. | Р |
| 8.5 | Safeguards against moving parts | Mr. Mr. And And And | N/A |
| 8.5.1 | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts | No moving parts. | N/A |
| The Maria | MS2 or MS3 part required to be accessible for the function of the equipment | See above. | N/A |
| MULTER | Moving MS3 parts only accessible to skilled person | A TEX STEEL WILLIAM SOUTH | N/A |
| 8.5.2 | Instructional safeguard | An an at the | N/A |
| 8.5.4 | Special categories of equipment containing moving parts | Write Mill Mill Mill | N/A |
| 8.5.4.1 | General | THE MALLE WALLE W | N/A |
| 8.5.4.2 | Equipment containing work cells with MS3 parts | 1 1 th | N/A |
| 8.5.4.2.1 | Protection of persons in the work cell | Write Mili Mar Mar | N/A |
| 8.5.4.2.2 | Access protection override | et set set set see | N/A |
| 8.5.4.2.2.1 | Override system | When My My An | N/A |
| 8.5.4.2.2.2 | Visual indicator | TEX LIEX NUTER WITE | N/A |
| 8.5.4.2.3 | Emergency stop system | in the to | N/A |
| in and | Maximum stopping distance from the point of activation (m) | LIER MUTTER MUTTER MUTTER MI | N/A |
| WALTE | Space between end point and nearest fixed mechanical part (mm) | White white white whit | N/A |
| 8.5.4.2.4 | Endurance requirements | TEX TEX TEX MITER | N/A |
| | Mechanical system subjected to 100 000 cycles of operation | Mus mus my m | N/A |
| 201 | - Mechanical function check and visual inspection | Lett Mure and Mure a | N/A |
| EK WILLER | - Cable assembly: | at the the state of | N/A |
| 8.5.4.3 | Equipment having electromechanical device for destruction of media | MIN WITH STEEL STEEL STEEL | N/A |
| 8.5.4.3.1 | Equipment safeguards | Mur. Mr. Mr. An. | N/A |
| 8.5.4.3.2 | Instructional safeguards against moving parts: | LET TEX THE TEX | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------|--|------------------------------|---------|
| 20. | the state of the section with | They was my my | |
| 8.5.4.3.3 | Disconnection from the supply | et let let alter | N/A |
| 8.5.4.3.4 | Cut type and test force (N) | de me me m | N/A |
| 8.5.4.3.5 | Compliance | THE STEEL WITCH WITCH | N/A |
| 8.5.5 | High pressure lamps | No high pressure lamps used. | N/A |
| Mer | Explosion test | PE WILLEY MULTE MUSIC MUSIC | N/A |
| 8.5.5.3 | Glass particles dimensions (mm): | at the set set | N/A |
| 8.6 | Stability of equipment | | N/A |
| 8.6.1 | General | MS1: Mass of the unit | N/A |
| A 0 | Instructional safeguard | hr m. m. m. | N/A |
| 8.6.2 | Static stability | it alter miter unite an | N/A |
| 8.6.2.2 | Static stability test | The state of | N/A |
| 8.6.2.3 | Downward force test | White white white whi | N/A |
| 8.6.3 | Relocation stability | at at let set | N/A |
| U a, | Wheels diameter (mm) | With Mur all Mr. | _ |
| LITER NOLI | Tilt test | LEK STEEL STEEL STEEL | N/A |
| 8.6.4 | Glass slide test | | N/A |
| 8.6.5 | Horizontal force test | S ALTE WILL WALL WALL WALL | N/A |
| 8.7 | Equipment mounted to wall, ceiling or other structure | cture | N/A |
| 8.7.1 | Mount means type | WALLE MUTTER MALL MINE | N/A |
| 8.7.2 | Test methods | at let tel tree | N/A |
| 70. 21. | Test 1, additional downwards force (N) | a the Main and Main | N/A |
| TEX WALL | Test 2, number of attachment points and test force (N) | UEK WHITEK WHITEK WHITEK W | N/A |
| WALTER | Test 3 Nominal diameter (mm) and applied torque (Nm) | E WHITE WHITE WHITE WHITE | N/A |
| 8.8 | Handles strength | TER LIER WIFE WITE | N/A |
| 8.8.1 | General | No handles | N/A |
| 8.8.2 | Handle strength test | LIFE NITER METER MILES V | N/A |
| et et | Number of handles | | |
| 1/10 | Force applied (N) | The Marie Marie Marie Marie | 70 |
| 8.9 | Wheels or casters attachment requirements | + 15 15 15 5 | N/A |
| 8.9.2 | Pull test | No such parts | N/A |
| 8.10 | Carts, stands and similar carriers | et et set set | N/A |



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|------------|--|--------------------------------------|---------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |
| 7,, | . I st let get mile with | The sur sur sur | | | |
| 8.10.1 | General | No carts, stands or similar carriers | N/A | | |
| 8.10.2 | Marking and instructions | at the test | N/A | | |
| 8.10.3 | Cart, stand or carrier loading test | in while him were | N/A | | |
| Et NITE | Loading force applied (N) | of the the little of | N/A | | |
| 8.10.4 | Cart, stand or carrier impact test | me me me | N/A | | |
| 8.10.5 | Mechanical stability | LIER NITER WITER WITE | N/A | | |
| J. St. | Force applied (N) | the the table | 10 | | |
| 8.10.6 | Thermoplastic temperature stability | LIFE WALTE WALTE WALTE | N/A | | |
| 8.11 | Mounting means for slide-rail mounted equipment (SRME) | | N/A | | |
| 8.11.1 | General | No such parts | N/A | | |
| 8.11.2 | Requirements for slide rails | THE STEEL STEEL WA | N/A | | |
| | Instructional Safeguard | The The The | N/A | | |
| 8.11.3 | Mechanical strength test | OLITER WILLER WALLE | N/A | | |
| 8.11.3.1 | Downward force test, force (N) applied | | N/A | | |
| 8.11.3.2 | Lateral push force test | The man was | N/A | | |
| 8.11.3.3 | Integrity of slide rail end stops | At July | N/A | | |
| 8.11.4 | Compliance | Mer Me Me M | N/A | | |
| 8.12 | Telescoping or rod antennas | - ITEK SLIFEK OLITEK MALT | N/A | | |
| <i>y</i> + | Button/ball diameter (mm) | No such parts | _ | | |
| | | AV AV | | | |

| 9 | THERMAL BURN INJURY | 3 | CEP C |
|-------|---|---|--------|
| 9.2 | Thermal energy source classifications | ir, mr. m. m. m. | Р |
| 9.3 | Touch temperature limits | EK TEK LIEK NITER MIT | Р |
| 9.3.1 | Touch temperatures of accessible parts: | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | PEK |
| 9.3.2 | Test method and compliance | See B.1.6 & B.2.3 | Р |
| 9.4 | Safeguards against thermal energy sources | | P.M. |
| 9.5 | Requirements for safeguards | | ⊁ P ⊲ |
| 9.5.1 | Equipment safeguard | Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions. | PINTER |



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|--------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 20. | the state of the state of the | The say the tax | - 0" |
| 9.5.2 | Instructional safeguard: | Instructional safeguard is not required. | N/A |
| 9.6 | Requirements for wireless power transmitters | at at the text. | N/A |
| 9.6.1 | General | No wireless power transmitters | N/A |
| 9.6.2 | Specification of the foreign objects | et itek sitek mitek mit | N/A |
| 9.6.3 | Test method and compliance | Mr. Mr. A. | N/A |
| | | | |

| 10 | RADIATION | | P |
|------------------|--|--|----------|
| 10.2 | Radiation energy source classification | | P |
| 10.2.1 | General classification | See below | P d |
| 1/1 | Lasers | MULL MULL MULL MIL | _ |
| ynliet ynliet | Lamps and lamp systems: | RS1: LED only for indicating use which is considered as low power application. | _ |
| m, a | Image projectors | Write Muli Mar Mar | _ |
| NITER IN | X-Ray | ALL STEEL STEEL S | |
| · · · · · | Personal music player | 2 20 20 20 | |
| 10.3 | Safeguards against laser radiation | E LIE RETENDED WHILE WHILE | N/A |
| MALIER | The standard(s) equipment containing laser(s) comply | No laser radiation | N/A |
| 10.4 | Safeguards against optical radiation from lamps and lamp systems (including LED types) | | ALTE V |
| 10.4.1 | General requirements | LED indication light: Classed as RS1 (Exempt Group) | IEKP MAI |
| EX WITE | Instructional safeguard provided for accessible radiation level needs to exceed | Tet Tet Stet Stet Mil | N/A |
| | Risk group marking and location: | My My My Sa | N/A |
| White 1 | Information for safe operation and installation | THE WIFE WIFE WHILE | N/A |
| 10.4.2 | Requirements for enclosures | | N/A |
| 4, m | UV radiation exposure: | LIFE WALL WALL WALL OF | N/A |
| 10.4.3 | Instructional safeguard: | at lest test trest and | N/A |
| 10.5 | Safeguards against X-radiation | Mur Mr. Mr. And And | N/A |
| 10.5.1 | Requirements | No X-radiation | N/A |
| <i>A</i> - | Instructional safeguard for skilled persons: | The state of | _ |
| 10.5.3 | Maximum radiation (pA/kg) | ITE LIFE MILE WILL . | |



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| STE MILES | The sie of | EN IEC 62368-1 | TEX WILL MILE MILE M | 74. |
|-----------|--------------------|----------------|----------------------|---------|
| Clause | Requirement + Test | Aller Aller | Result - Remark | Verdict |

| 10.6 | Safeguards against acoustic energy sources | | N/A |
|----------|--|-----------------------|--------|
| 10.6.1 | General | No such equipment | N/A |
| 10.6.2 | Classification | TEK ITEK NITEK MITE | N/A |
| A 15 | Acoustic output L _{Aeq,T} , dB(A) | The same of the | N/A |
| W.C. | Unweighted RMS output voltage (mV) | MITE WALTE WALTE | s/ N/A |
| TEK | Digital output signal (dBFS) | A sit set | N/A |
| 10.6.3 | Requirements for dose-based systems | Write Aury Aury A | N/A |
| 10.6.3.1 | General requirements | Tet Tet Stet NI | N/A |
| 10.6.3.2 | Dose-based warning and automatic decrease | War Mrs. Mrs. And An | N/A |
| 10.6.3.3 | Exposure-based warning and requirements | TEX NITER WITER WHITE | N/A |
| t let | 30 s integrated exposure level (MEL30) | The state of | N/A |
| 2000 | Warning for MEL ≥ 100 dB(A) | White white white | N/A |
| 10.6.4 | Measurement methods | at all the | N/A |
| 10.6.5 | Protection of persons | With Mur All My | N/A |
| LIE WAL | Instructional safeguards | ALTER MITTER | N/A |
| 10.6.6 | Requirements for listening devices (headphones, earphones, etc.) | The Site State | N/A |
| 10.6.6.1 | Corded listening devices with analogue input | 20, 20, 20 | N/A |
| ALL L | Listening device input voltage (mV) | LIER WILL MILE M | N/A |
| 10.6.6.2 | Corded listening devices with digital input | The state of | N/A |
| no in | Max. acoustic output L _{Aeq,T} , dB(A) | WILL MULL MULL MU | N/A |
| 10.6.6.3 | Cordless listening devices | at let let let | N/A |
| - 20, | Max. acoustic output L _{Aeq,T} , dB(A) | in the Me Me | N/A |

| B | CONDITION TESTS AND SINGLE FAULT CONDITION TESTS | | PK |
|-------|--|--|------|
| B.1 | | | Р |
| B.1.5 | Temperature measurement conditions | (See appended table B.1.5) | Pull |
| B.2 | Normal operating conditions | | of P |
| B.2.1 | General requirements | (See Test Item Particulars and appended test tables) | P |
| ans. | Audio Amplifiers and equipment with audio amplifiers | Not such equipment. | N/A |
| B.2.3 | Supply voltage and tolerances | Rated voltage 3Vdc | P |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|----------------------------|--|---|---------|
| B.2.5 | Input test: | (See appended table B.2.5) | P |
| B.3 | Simulated abnormal operating conditions | (See appended table B.2.5) | Р |
| B.3.1 | General General | (San appended table B 3) | Pos |
| B.3.2 | | (See appended table B.3) | N/A |
| D.J.Z | Covering of ventilation openings | No openings | N/A |
| D 0 0 ×2 | Instructional safeguard | Not consider the D.C. mains | |
| B.3.3 | DC mains polarity test | Not supplied by D.C. mains | N/A |
| B.3.4 | Setting of voltage selector | No voltage selector used. | N/A |
| B.3.5 | Maximum load at output terminals | THE THE STEET WITE | N/A |
| B.3.6 | Reverse battery polarity | 1, 21, 2, 2, | Р |
| B.3.7 | Audio amplifier abnormal operating conditions | Not such equipment. | N/A |
| B.3.8 WHITE WALTE WALTE | Safeguards functional during and after abnormal operating conditions | During an abnormal operating condition that does not lead to a single fault condition, all safeguards are remained effective. After restoration of normal operating conditions, all safeguards are compliant with applicable requirements. For those abnormal operating conditions lead to single fault conditions, see Clause B.4. | Pril |
| B.4 | Simulated single fault conditions | MITER WALTER WALTER WALTER | WP. |
| B.4.1 | General | a state of | P |
| B.4.2 | Temperature controlling device | No such device used. | N/A |
| B.4.3 | Blocked motor test | No motors used. | N/A |
| B.4.4 | Functional insulation | See below. | Р |
| B.4.4.1 | Short circuit of clearances for functional insulation | (See appended table B.4) | Р |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | (See appended table B.4) | PIK |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards | No coated printed boards used. | N/A |
| B.4.5 | Short-circuit and interruption of electrodes in tubes and semiconductors | (See appended table B.4) | TEX P |
| B.4.6 | Short circuit or disconnection of passive components | (See appended table B.4) | P |



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|----------|--|---|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 100 | the set set set seek white and | mer me me me | * |
| B.4.7 | Continuous operation of components | The EUT is continuous operating type and no such components intended for short time operation or intermittent operation | N/A |
| B.4.8 | Compliance during and after single fault conditions | (See appended table B.4) | Р |
| B.4.9 | Battery charging and discharging under single fault conditions | No such battery | N/A |
| Call | UV RADIATION | TEX TEX STEX SUTEX | N/A |
| C.1 | Protection of materials in equipment from UV rac | diation | N/A |
| C.1.2 | Requirements | No such UV generated from the equipment. | N/A |
| C.1.3 | Test method | LIFE RUE WALFE WALF | N/A |
| C.2 | UV light conditioning test | The state of the | N/A |
| C.2.1 | Test apparatus | WILL MUTTE MUTTE AND THE | N/A |
| C.2.2 | Mounting of test samples | A TEX LIES | N/A |
| C.2.3 | Carbon-arc light-exposure test | a the me a | N/A |
| C.2.4 | Xenon-arc light-exposure test | E THE STATE STATE STATE | N/A |
| D | TEST GENERATORS | Mr. Mr. Mr. | N/A |
| D.1 | Impulse test generators | OLITER WITE WALLE | N/A |
| D.2 | Antenna interface test generator | the state of the | N/A |
| D.3 | Electronic pulse generator | Write While Must must be | N/A |
| EEK NI | TEST CONDITIONS FOR EQUIPMENT CONTAINI | NG AUDIO AMPLIFIERS | N/A |
| E.1 | Electrical energy source classification for audio | signals | N/A |
| E. WILLE | Maximum non-clipped output power (W): | THE OLIER WALTER WALT | WELL. |
| All the | Rated load impedance (Ω) | 4 4 4 | TEX |
| 10 1 | Open-circuit output voltage (V) | WILL MULL MULL MULL | 11/2 |
| JEK N | Instructional safeguard | at let let let | CLIFE .II |
| E.2 | Audio amplifier normal operating conditions | ure mer me me | N/A |
| IE WALTE | Audio signal source type: | et sitet mitet mitet mi | in and |
| t et | Audio output power (W) | The The Table 1 | |
| Anco | Audio output voltage (V): | WITE WALL WILL MALL | alle, |
| All I | Rated load impedance (Ω) | a of the | C. Carlo |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-----------|--|---|----------------------|
| 70. | the set of the second and | Mer Mer Mer Mer | |
| CLIFE OF | Requirements for temperature measurement | the tell little alient | N/A |
| E.3 | Audio amplifier abnormal operating conditions | ing the the sail | N/A |
| File your | EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS | INSTRUCTIONAL | L'I P _{ull} |
| F.1 | General | | P |
| | Language | English | |
| F.2 | Letter symbols and graphical symbols | STEE WITE WALLES WHILE | W P |
| F.2.1 | Letter symbols according to IEC60027-1 | Letter symbols for quantities and units are complied with IEC 60027-1. | nit P |
| F.2.2 (1) | Graphic symbols according to IEC, ISO or manufacturer specific | Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010. | Pin |
| F.3 | Equipment markings | EK TEK TEK TIEK | P |
| F.3.1 | Equipment marking locations | The required marking is located on the enclosure of the equipment and is easily visible. | P LITER W |
| F.3.2 | Equipment identification markings | See copy of marking plate. | Р |
| F.3.2.1 | Manufacturer identification | See copy of marking plate | P |
| F.3.2.2 | Model identification | See copy of marking plate | Р |
| F.3.3 | Equipment rating markings | Unit didn't direct connection to the mains, it need not be marked with any electrical rating. | N/A |
| F.3.3.1 | Equipment with direct connection to mains | Mr. Mr. Mr. | N/A |
| F.3.3.2 | Equipment without direct connection to mains | - LIER ALTER MITER MALT | N/A |
| F.3.3.3 | Nature of the supply voltage | THE THE SECOND | N/A |
| F.3.3.4 | Rated voltage | OLIEN WALLE WALL WALL | N/A |
| F.3.3.5 | Rated frequency | at at at at | N/A |
| F.3.3.6 | Rated current or rated power | THE MUTTER WITH WITH I | N/A |
| F.3.3.7 | Equipment with multiple supply connections | at the the state of | N/A |
| F.3.4 | Voltage setting device | No voltage setting device. | N/A |
| F.3.5 | Terminals and operating devices | See below. | N/A |
| F.3.5.1 | Mains appliance outlet and socket-outlet markings | No outlet used. | N/A |



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| 01 | Deminstrate Test | Danit Danad | Manathat |
|-----------|---|--|----------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| F.3.5.2 | Switch position identification marking: | No switch used. | N/A |
| F.3.5.3 | Replacement fuse identification and rating markings | The many many many | N/A |
| 2 14 | Instructional safeguards for neutral fuse | The Will MUT MUT A | N/A |
| F.3.5.4 | Replacement battery identification marking: | No such battery on the equipment. See sub-clause F.5 | N/A |
| F.3.5.5 | Neutral conductor terminal | WITE MILL WILL WILL | N/A |
| F.3.5.6 | Terminal marking location | at at let let | N/A |
| F.3.6 | Equipment markings related to equipment classification | in the the | N/A |
| F.3.6.1 | Class I equipment | The Marin Wall Was | N/A |
| F.3.6.1.1 | Protective earthing conductor terminal | - Jet Jet Jet with | N/A |
| F.3.6.1.2 | Protective bonding conductor terminals | AIVE ME AND AND AND | N/A |
| F.3.6.2 | Equipment class marking | TEX LIFE OUTER MITE | N/A |
| F.3.6.3 | Functional earthing terminal marking | The state of the s | N/A |
| F.3.7 | Equipment IP rating marking | IPX0 | N/A |
| F.3.8 | External power supply output marking | the set of | N/A |
| F.3.9 | Durability, legibility and permanence of marking | Marking is considered to be legible and easily discernible. See also the following details. | P |
| F.3.10 | Test for permanence of markings | The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible. | UNLITER WALTER |
| F.4 | Instructions | | er P ⊲ |
| , Mer. | a) Information prior to installation and initial use | Provided in the manual. | Р |
| MALTER | b) Equipment for use in locations where children not likely to be present | Not such equipment | N/A |
| at- | c) Instructions for installation and interconnection | Not such equipment | Р |



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| 7,1 | EN IEC 62368-1 | in mur, and any an | 721. |
|------------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 70 | the set set must make | when the me | |
| Marie M | d) Equipment intended for use only in restricted access area | Not such equipment | N/A |
| All S | e) Equipment intended to be fastened in place | Not such equipment | N/A |
| - 211- | f) Instructions for audio equipment terminals | No such terminals provided. | N/A |
| EK INLIER | g) Protective earthing used as a safeguard | t tex tex strex wi | N/A |
| TEX. | h) Protective conductor current exceeding ES2 limits | The tit it | N/A |
| 211- 1 | i) Graphic symbols used on equipment | MUTIL MUTI MUT MUT | N/A |
| INLTER UN | j) Permanently connected equipment not provided with all-pole mains switch | Not permanently connected equipment. | N/A |
| TEK WALT | k) Replaceable components or modules providing safeguard function | No such markings. | N/A |
| the Cities | I) Equipment containing insulating liquid | No such liquid. | N/A |
| 20 | m) Installation instructions for outdoor equipment | Not such equipment | N/A |
| F.5 | Instructional safeguards | tet tet liter sites | N/A |
| G | COMPONENTS | Mr. Mr. Mr. Mr. | Р |
| G.1 | Switches | THE MITTER MALTER | N/A |
| G.1.1 | General | No switches | N/A |
| G.1.2 | Ratings, endurance, spacing, maximum load | WALL WALL WALL WA | N/A |
| G.1.3 | Test method and compliance | at all all all | N/A |
| G.2 | Relays | Mur Mur Mur Mu | N/A |
| G.2.1 | Requirements | No relays | N/A |
| G.2.2 | Overload test | 1 14 14 14 14 14 14 14 14 14 14 14 14 14 | N/A |
| G.2.3 | Relay controlling connectors supplying power to other equipment | TER WILLER WHITE WHITE W | N/A |
| G.2.4 | Test method and compliance | - LIER WILE MILE MILE | N/A |
| G.3 | Protective devices | THE STATE OF STATE OF | N/A |
| G.3.1 | Thermal cut-offs | No thermal cut-offs | N/A |
| NLTEK WIN | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | LIER WALTER WALTER | N/A |
| IEK WALTE | Thermal cut-outs tested as part of the equipment as indicated in c) | ex writex writex wr | N/A |
| G.3.1.2 | Test method and compliance | A A A A A | N/A |
| G.3.2 | Thermal links | No thermal-links | N/A |



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| EN IEC 62368-1 | | | |
|----------------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics | CALLER MALIER MALIER | N/A |
| JEK J | b) Thermal links tested as part of the equipment | at the title | N/A |
| G.3.2.2 | Test method and compliance | the me me | N/A |
| G.3.3 | PTC thermistors | No PTC thermistor provided as safeguard within the equipment. | N/A |
| G.3.4 | Overcurrent protection devices | Weign They Me My | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to G.3.4 | LIEK WALTER WALTER WALTER | N/A |
| G.3.5.1 | Non-resettable devices suitably rated and marking provided | EX MUTER MUTER MUTER M | N/A |
| G.3.5.2 | Single faults conditions | e det det det au | N/A |
| G.4 | Connectors | THE THE WAY THE | N/A |
| G.4.1 | Spacings | TEX STEX STEEL WITE | N/A |
| G.4.2 | Mains connector configuration | The state of the s | N/A |
| G.4.3 | Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely | Marit will v | N/A |
| G.5 | Wound components | THE WALL MALLE WALLE | N/A |
| G.5.1 | Wire insulation in wound components | a state of | N/A |
| G.5.1.2 | Protection against mechanical stress | White Auth Auth Man | N/A |
| G.5.2 | Endurance test | let telt telt state | N/A |
| G.5.2.1 | General test requirements | hr mr m m | N/A |
| G.5.2.2 | Heat run test | let alter aller mile and | N/A |
| et est | Test time (days per cycle) | W State | .y√e |
| 21/2 | Test temperature (°C) | WILL WILL MILL AND | 1/1/2 |
| G.5.2.3 | Wound components supplied from the mains | at at at all | N/A |
| G.5.2.4 | No insulation breakdown | MUTTE MUTE AND MINE | N/A |
| G.5.3 | Transformers | TEX STEX STEX SUTEX | N/A |
| G.5.3.1 | Compliance method: | 1. Mr. 20, 20, | N/A |
| Je White | Position: | EX WILL WILL MUTE AN | N/A |
| t set | Method of protection | | N/A |
| G.5.3.2 | Insulation | WHILE MILL MULL MILL | N/A |
| A EX | Protection from displacement of windings | a at the let | 16 |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|------------|--|---------------------------------------|------------|
| 20, 1 | the state of the s | me me me | 70, 2, |
| G.5.3.3 | Transformer overload tests | et Jet Jet | N/A |
| G.5.3.3.1 | Test conditions | our mr mr 2 | N/A |
| G.5.3.3.2 | Winding temperatures | TEX LITER NUTER ON | N/A |
| G.5.3.3.3 | Winding temperatures - alternative test method | 111 11 11 | N/A |
| G.5.3.4 | Transformers using FIW | E WILLEY WALLE MALLE | N/A |
| G.5.3.4.1 | General | it it it | N/A |
| 211. 21 | FIW wire nominal diameter: | MULL MULL MULL | 211 |
| G.5.3.4.2 | Transformers with basic insulation only | TEX TEX STER O | N/A |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation | et let let of | N/A |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core | We the Tex Tex | N/A |
| G.5.3.4.5 | Thermal cycling test and compliance | Mer Mer Mu | N/A |
| G.5.3.4.6 | Partial discharge test | TEX STEX OUTER. | N/A |
| G.5.3.4.7 | Routine test | 1 11 | N/A |
| G.5.4 | Motors | No motors | N/A |
| G.5.4.1 | General requirements | | ⊬ N/A |
| G.5.4.2 | Motor overload test conditions | MULL MULL MULL | N/A |
| G.5.4.3 | Running overload test | TEN TEN LITER | N/A |
| G.5.4.4.2 | Locked-rotor overload test | The Au Au | N/A |
| inches and | Test duration (days) | LIEF WITE WITE W | ntie Julia |
| G.5.4.5 | Running overload test for DC motors | | N/A |
| G.5.4.5.2 | Tested in the unit | HER WALTER WALTE WAL | N/A |
| G.5.4.5.3 | Alternative method | a et set se | N/A |
| G.5.4.6 | Locked-rotor overload test for DC motors | with the Me | N/A |
| G.5.4.6.2 | Tested in the unit | TEX LIEX SLIER | N/A |
| * | Maximum Temperature | The The April | N/A |
| G.5.4.6.3 | Alternative method | LIER WITER WHITER WA | N/A |
| G.5.4.7 | Motors with capacitors | | N/A |
| G.5.4.8 | Three-phase motors | MULL MILL MILL | N/A |
| G.5.4.9 | Series motors | A LET LET | N/A |
| (1) | Operating voltage | Aller Aller Aller | 2, 2 |
| G.6 | Wire Insulation | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |



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| EN IEC 62368-1 | | | | |
|----------------|---|---------------------------------------|--------------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| - Jun | the set of the state water said | me me m | 10. 1 | |
| G.6.1 | General | CEL TEX STEX | N/A | |
| G.6.2 | Enamelled winding wire insulation | ALE ALL ALL ALL | N/A | |
| G.7 | Mains supply cords | THE LIFE NUTER AND | N/A | |
| G.7.1 | General requirements | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A | |
| | Туре | EL WHITE WHITE WHITE | ant an | |
| G.7.2 | Cross sectional area (mm ² or AWG) | . at at set | N/A | |
| G.7.3 | Cord anchorages and strain relief for non- detachable power supply cords | Whit will will the | N/A | |
| G.7.3.2 | Cord strain relief | A TILL MUTIL MUTIL MI | N/A | |
| G.7.3.2.1 | Requirements | Et TEX ITEX OF | N/A | |
| 1 1 | Strain relief test force (N) | 20, 20, 20 | N/A | |
| G.7.3.2.2 | Strain relief mechanism failure | 3 LIER NITER SPLIE | N/A | |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm): | the state of | N/A | |
| G.7.3.2.4 | Strain relief and cord anchorage material | With White White A | N/A | |
| G.7.4 | Cord Entry | At the s | N/A | |
| G.7.5 | Non-detachable cord bend protection | ans an | N/A | |
| G.7.5.1 | Requirements | The Life Stiff | N/A | |
| G.7.5.2 | Test method and compliance | 24. 24. 24. | N/A | |
| Murr 2 | Overall diameter or minor overall dimension, <i>D</i> (mm) | White white white | Murit Mer | |
| Write My | Radius of curvature after test (mm) | LIEF OLIEF WITE ON | recent and a | |
| G.7.6 | Supply wiring space | | N/A | |
| G.7.6.1 | General requirements | HE WALLE WALL WALL WALL | N/A | |
| G.7.6.2 | Stranded wire | a let let stat | N/A | |
| G.7.6.2.1 | Requirements | Mer Mer Mus | N/A | |
| G.7.6.2.2 | Test with 8 mm strand | TEN LIEN NITER | N/A | |
| G.8 | Varistors | Mr. Mr. M. | N/A | |
| G.8.1 | General requirements | No varistors used | N/A | |
| G.8.2 | Safeguards against fire | | N/A | |
| G.8.2.1 | General | in while must man | N/A | |
| G.8.2.2 | Varistor overload test | t let let let | N/A | |
| G.8.2.3 | Temporary overvoltage test | Must me me | N/A | |
| G.9 | Integrated circuit (IC) current limiters | the Alle Clar | N/A | |



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| Clause | Doguiroment L Toot | Decult Demorts | Vendi- |
|----------|--|--|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.9.1 | Requirements | No such IC | N/A |
| 11/2 1/1 | IC limiter output current (max. 5A) | With Must May May | |
| LIE NA | Manufacturers' defined drift | TEK ITEK SITEK OLITEK O | Vrige In |
| G.9.2 | Test Program | The All the A | N/A |
| G.9.3 | Compliance | MILE MILE WALLE WALLE | N/A |
| G.10 | Resistors | at the title the | N/A |
| G.10.1 | General while whil | The bleeder resistors used after X - capacitor, not relied upon as safeguard, no test necessary. See 5.5.6. | N/A |
| G.10.2 | Conditioning | EL MITER WITE WHILE AND | N/A |
| G.10.3 | Resistor test | at at at a | N/A |
| G.10.4 | Voltage surge test | MULL MULL MULL MULL | N/A |
| G.10.5 | Impulse test | TEX TEX STER STER | N/A |
| G.10.6 | Overload test | me my my | N/A |
| G.11 | Capacitors and RC units | CH CALIFE MALTER A | N/A |
| G.11.1 | General requirements | 2 3 4 34 | N/A |
| G.11.2 | Conditioning of capacitors and RC units | THE WALL WILL AND | N/A |
| G.11.3 | Rules for selecting capacitors | at the fit of | N/A |
| G.12 | Optocouplers | While Aut Aut My | N/A |
| MUTER M | Optocouplers comply with IEC 60747-5-5 with specifics | NATER WALTER WALTER | N/A |
| ITEK "NI | Type test voltage V _{ini,a} : | et set set stet stet | LIEK-N |
| | Routine test voltage, V _{ini, b} | m, m, m, | |
| G.13 | Printed boards | e aliek aliek anliet and | Р |
| G.13.1 | General requirements | See the following details. | P |
| G.13.2 | Uncoated printed boards | The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements | MP P |
| G.13.3 | Coated printed boards | No coated printed board or multilayer board applied for within the equipment. | N/A |



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|----------------|--|-----------------------|-------------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 0.40.4 | | Mr. Mr. M. | N/A | |
| G.13.4 | Insulation between conductors on the same inner surface | NITER WHITER WALTER | N/A | |
| G.13.5 | Insulation between conductors on different surfaces | at the the | N/A | |
| , J | Distance through insulation: | in the the | N/A | |
| ENNITE | Number of insulation layers (pcs): | t lifet alifet mire | WALLE WILL | |
| G.13.6 | Tests on coated printed boards | 141 141 24 | N/A | |
| G.13.6.1 | Sample preparation and preliminary inspection | NUTER MILE WALTER | N/A | |
| G.13.6.2 | Test method and compliance | at the left | N/A | |
| G.14 | Coating on components terminals | WILL MULL MULL M | N/A | |
| G.14.1 | Requirements | No such coating | N/A | |
| G.15 | Pressurized liquid filled components | The Me M | N/A | |
| G.15.1 | Requirements | No such liquid | N/A | |
| G.15.2 | Test methods and compliance | Ang Ang Ang | N/A | |
| G.15.2.1 | Hydrostatic pressure test | WILL WILL MILL | N/A | |
| G.15.2.2 | Creep resistance test | | N/A | |
| G.15.2.3 | Tubing and fittings compatibility test | 2 24,5 24 | N/A | |
| G.15.2.4 | Vibration test | A TO THE STATE OF | N/A | |
| G.15.2.5 | Thermal cycling test | Mrs. Any Any | N/A | |
| G.15.2.6 | Force test | NITER MITER WALTER | N/A | |
| G.15.3 | Compliance | The second second | N/A | |
| G.16 | IC including capacitor discharge function (ICX) | WITE WILL AUT OF | N/A | |
| G.16.1 | Condition for fault tested is not required | No such ICX | N/A | |
| | ICX with associated circuitry tested in equipment | Mus Me Me | N/A | |
| LI WILLE | ICX tested separately | - ITEK SLIEK MITE | N/A | |
| G.16.2 | Tests | 711 701 7 | N/A | |
| MULT W | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test: | MALTER WALTER MALLE. | Mur. Mur. | |
| | Mains voltage that impulses to be superimposed on | LIER WALLER WALLER ON | ili onli ul | |
| TE WALLE | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test: | White white whi | Mul. Aur. | |
| G.16.3 | Capacitor discharge test: | LIER OLIER WITE | N/A | |
| Н | CRITERIA FOR TELEPHONE RINGING SIGNALS | We in the | N/A | |
| H.1 | General | ALTER MALTER MALTER | N/A | |



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|--------|--------------------|----------------|-----------------|---------|
| Clause | Requirement + Test | The Sh | Result - Remark | Verdict |

| | The state of the s | | - 10 |
|-----------|--|---|----------|
| H.2 | Method A | Mr. M. W. | N/A |
| H.3 | Method B | CITER WILL MILL | N/A |
| H.3.1 | Ringing signal | No telephone ringing signal generated within the equipment. | N/A |
| H.3.1.1 | Frequency (Hz) | WILL MULT MILL MILL | 2/2 |
| H.3.1.2 | Voltage (V) | TER STER STER MITE | MUTER |
| H.3.1.3 | Cadence; time (s) and voltage (V): | My Any Any A | , et |
| H.3.1.4 | Single fault current (mA):: | LITER MITER WALTER WALTER | 1/2 - 1/ |
| H.3.2 | Tripping device and monitoring voltage | a at at at | N/A |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | MAT WELL THE THE | N/A |
| H.3.2.2 | Tripping device | MULLE MILL MILL MILL | N/A |
| H.3.2.3 | Monitoring voltage (V) | TEX TEX STEEL STEEL | N/A |
| J' | INSULATED WINDING WIRES FOR USE WITHOU INSULATION | T INTERLEAVED | N/A |
| J.1 | General | - 1 m m 2 | N/A |
| ie. Wille | Winding wire insulation | THE MILE WILL WATER | 1401 |
| - Let | Solid round winding wire, diameter (mm) | A A A A | N/A |
| Mur. | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²): | MULL ANTE MULL AND | N/A |
| J.2/J.3 | Tests and Manufacturing | NITES NALTE WALTE WALTE | 1000 - 4 |
| K - | SAFETY INTERLOCKS | at at let tet. | N/A |
| K.1 | General requirements | rice Aurice Aurice August | N/A |
| MITE | Instructional safeguard: | No safety interlock provided. | N/A |
| K.2 | Components of safety interlock safeguard mech | anism | N/A |
| K.3 | Inadvertent change of operating mode | alter miter militamite milita | N/A |
| K.4 | Interlock safeguard override | A ST SET SET | N/A |
| K.5 | Fail-safe Tail-safe | WILL MULL MULL MULL A | N/A |
| K.5.1 | Under single fault condition | at the the state of | N/A |
| K.6 | Mechanically operated safety interlocks | Mur Mur Mr. Mr. | N/A |
| K.6.1 | Endurance requirement | LIEF RITER WITER WALTE | N/A |
| K.6.2 | Test method and compliance: | The The The Table | N/A |
| K.7 | Interlock circuit isolation | ALTER MITE WALL WALL | N/A |



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|------------------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| K.7.1 | Separation distance for contact gaps & interlock | We have the | N/A |
| W.Y.T | circuit elements | RUFER MALTER WALTER WALTER | IN/A |
| LIEK WAL | In circuit connected to mains, separation distance for contact gaps (mm) | TEK WIEK WITEK WITEK | N/A |
| EK WALTEN | In circuit isolated from mains, separation distance for contact gaps (mm) | t street autest antiest auni | N/A |
| MITEK | Electric strength test before and after the test of K.7.2 | (See appended table 5.4.9) | N/A |
| K.7.2 | Overload test, Current (A): | Me The Co | N/A |
| K.7.3 | Endurance test | LIFE WHITE WALL WALL . | N/A |
| K.7.4 | Electric strength test | at the fifth | N/A |
| L 211 | DISCONNECT DEVICES | to mily me my m | N/A |
| L.1 (100 | General requirements | TEX STEE SLIEF WIS | N/A |
| L.2 | Permanently connected equipment | My My My A | N/A |
| L.3 | Parts that remain energized | SITER OUTER MILE MALLE | N/A |
| L.4 | Single-phase equipment | | N/A |
| L.5 | Three-phase equipment | There was a | N/A |
| L.6 | Switches as disconnect devices | The lift of | N/A |
| L.7 | Plugs as disconnect devices | Mur My My My | N/A |
| L.8 | Multiple power sources | TEX SIFE MITER SMITE | N/A |
| J. | Instructional safeguard | m m | N/A |
| W _{rit} | EQUIPMENT CONTAINING BATTERIES AND THE | EIR PROTECTION CIRCUITS | N/A |
| M.1 | General requirements | at at at alt | N/A |
| M.2 | Safety of batteries and their cells | The MULT MAY MAY M | N/A |
| M.2.1 | Batteries and their cells comply with relevant IEC standards | No battery used | N/A |
| M.3 | Protection circuits for batteries provided within the equipment | UNITER WHITEK WHITEK | N/A |
| M.3.1 | Requirements | at let telt tret | N/A |
| M.3.2 | Test method | THE MULE MUSE MAN . | N/A |
| IET WITE | Overcharging of a rechargeable battery | Et LIEK ALTER WITER AN | N/A |
| | Excessive discharging | M. 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, | N/A |
| MULT | Unintentional charging of a non-rechargeable battery | White white while whi | N/A |
| الاستعارات | Reverse charging of a rechargeable battery | TEN TEN STEE STEE | N/A |



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| | EN IEC 62368-1 | m m | |
|--|---|---------------------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| M.3.3 | Compliance | A ST ST TEXT | N/A |
| M.4 | Additional safeguards for equipment containing battery | a portable secondary lithium | N/A |
| M.4.1 | General | the me me of | N/A |
| M.4.2 | Charging safeguards | et itel liter witer init | N/A |
| M.4.2.1 | Requirements | The The Asset | N/A |
| M.4.2.2 | Compliance | STEE WITE WALTER WALTER | N/A |
| M.4.3 | Fire enclosure | a at at at | N/A |
| M.4.4 | Drop test of equipment containing a secondary lithium battery | THE MALL MALL WALL V | N/A |
| M.4.4.2 | Preparation and procedure for the drop test | E WILL AUT AUT AU | N/A |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):: | MILEY WALTER WALTER WALTE | N/A |
| M.4.4.4 | Check of the charge/discharge function | at at let just | N/A |
| M.4.4.5 | Charge / discharge cycle test | NUTT THE WAY | N/A |
| M.4.4.6 | Compliance | att The street of | N/A |
| M.5 | Risk of burn due to short-circuit during carrying | 1 12 2 | N/A |
| M.5.1 | Requirement | e alte mile white wi | N/A |
| M.5.2 | Test method and compliance | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| M.6 | Safeguards against short-circuits | WHITE WHITE WALL WALL | N/A |
| M.6.1 | External and internal faults | et tet tet stet stet | N/A |
| M.6.2 | Compliance | With the same | N/A |
| M.7 | Risk of explosion from lead acid and NiCd batter | ies tel stee stee of | N/A |
| M.7.1 | Ventilation preventing explosive gas concentration | No State of | N/A |
| Me | Calculated hydrogen generation rate | WITE WALL WALL WALL WALL | N/A |
| M.7.2 | Test method and compliance | at let set set | N/A |
| 211. 2 | Minimum air flow rate, Q (m ³ /h) | MULL MAL MAN MAN | N/A |
| M.7.3 | Ventilation tests | TEX TEX STEX STEX | N/A |
| M.7.3.1 | General | in the sur in | N/A |
| M.7.3.2 | Ventilation test – alternative 1 | EX NUTEX MUTER WAITER WAY | N/A |
| t set | Hydrogen gas concentration (%) | and the state of | N/A |
| M.7.3.3 | Ventilation test – alternative 2 | White Marie Marie Aury | N/A |
| All The State of t | Obtained hydrogen generation rate: | a at at at | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-----------|---|-----------------------------|----------|
| | rtoquiomoni i roct | Troodic Tromain | Vordio |
| M.7.3.4 | Ventilation test – alternative 3 | at the text state | N/A |
| 4, 4, | Hydrogen gas concentration (%) | ure men men men | N/A |
| M.7.4 | Marking: | TEX STEX SUIES OUTER IN | N/A |
| M.8 | Protection against internal ignition from external with aqueous electrolyte | spark sources of batteries | N/A |
| M.8.1 | General | Mr. Any Any Any | N/A |
| M.8.2 | Test method | NITE WITE WITE WITE | N/A |
| M.8.2.1 | General | t it it lit | N/A |
| M.8.2.2 | Estimation of hypothetical volume V_Z (m ³ /s) | The Mily Mily Mily | n_ 7 |
| M.8.2.3 | Correction factors | of the the state of | Liek-Ini |
| M.8.2.4 | Calculation of distance d (mm) | m; m; m; o, | L - 0 |
| M.9 | Preventing electrolyte spillage | A STEEL ONLIER SHITTER WALL | N/A |
| M.9.1 | Protection from electrolyte spillage | The second second | N/A |
| M.9.2 | Tray for preventing electrolyte spillage | antie motificant min | N/A |
| M.10 | Instructions to prevent reasonably foreseeable misuse | Et Whitet whitet | N/A |
| EK JUE | Instructional safeguard | t the | N/A |
| N | ELECTROCHEMICAL POTENTIALS | Wer Mr Mr M | N/A |
| MITE | Material(s) used | Pollution degree considered | WILL C |
| 0 | MEASUREMENT OF CREEPAGE DISTANCES AN | ID CLEARANCES | N/A |
| mer in | Value of X (mm) | NITER WALTER WALTER WALTER | 1000-1 |
| Pat 3 | SAFEGUARDS AGAINST CONDUCTIVE OBJECT | S | N/A |
| P.1 | General | in murrant mur m | N/A |
| P.2 | Safeguards against entry or consequences of en | try of a foreign object | N/A |
| P.2.1 | General | Only PS1, ES1 | N/A |
| P.2.2 | Safeguards against entry of a foreign object | alter miter white white | Miller |
| All . | Location and Dimensions (mm) | A ST SET SET | Total |
| P.2.3 | Safeguards against the consequences of entry of a foreign object | LIFE WALL WILL WALL A | N/A |
| P.2.3.1 | Safeguard requirements | ER WALTE WALL MALE WA | N/A |
| WILLIEK. | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment | Not transportable equipment | N/A |
| UNLITEK W | Transportable equipment with metalized plastic parts | Not transportable equipment | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|-------------|--|---|-----------|
| 1, | the state of the state of the | Mr. Mr. M. A. | |
| P.2.3.2 | Consequence of entry test | let get get night | N/A |
| P.3 | Safeguards against spillage of internal liquids | mr. mr. m. m. | N/A |
| P.3.1 | General | No such liquids. | N/A |
| P.3.2 | Determination of spillage consequences | 10 To | N/A |
| P.3.3 | Spillage safeguards | E WILLE MULLE AND M | N/A |
| P.3.4 | Compliance | at let let o | N/A |
| P.4 | Metallized coatings and adhesives securing part | ts with the man | N/A |
| P.4.1 | General | No such construction. | N/A |
| P.4.2 | Tests | him hay him him | N/A |
| The WALL | Conditioning, T _C (°C) | Jet alter alter antie | n z |
| + zet | Duration (weeks) | The state of | 18 - 18 |
| Q dil | CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING | | N/A |
| Q.1 | Limited power sources | at at the st | N/A |
| Q.1.1 | Requirements | They are the | N/A |
| LITE NA | a) Inherently limited output | ALTER OLITER | N/A |
| A A | b) Impedance limited output | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| NUC | c) Regulating network limited output | I RITE WALL WALLE OF | N/A |
| TEX | d) Overcurrent protective device limited output | at at all a | N/A |
| an. | e) IC current limiter complying with G.9 | White Mure Man Man | N/A |
| Q.1.2 | Test method and compliance | THE TEX STEP STE | N/A |
| is the said | Current rating of overcurrent protective device (A) | are and an order | N/A |
| Q.2 | Test for external circuits – paired conductor cable | e and an an | N/A |
| 10, | Maximum output current (A) | They were my an | N/A |
| MILTER | Current limiting method: | TER LIER NUTER AND | er untile |
| R | LIMITED SHORT CIRCUIT TEST | Mr. Mr. O. T. | N/A |
| R.1 | General | No such consideration. | N/A |
| R.2 | Test setup | a the state of | N/A |
| 21/2 | Overcurrent protective device for test: | in Murice Mury Mury a | 7,1 |
| R.3 | Test method | y tex tex ties of | N/A |
| 40 | Cord/cable used for test: | Mis Me Me all | 4 3 |
| R.4 | Compliance | TEN TEN STEN STE | N/A |



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| 17 1012 | The the text of | EN IEC 62368-1 | LEX MULLER AMULES | Notice Char | m |
|---------|--------------------|----------------|-------------------|-------------|---------|
| Clause | Requirement + Test | Mr. San T. C. | Result - Remark | IEK ALTE | Verdict |

| S | TESTS FOR RESISTANCE TO HEAT AND FIRE | et let let liet | N/A |
|----------|---|---|------------|
| S.1 | Flammability test for fire enclosures and fire barri where the steady state power does not exceed 4 0 | | N/A |
| | Samples, material | the the me of | ` |
| EH MILTE | Wall thickness (mm) | L STEP STEP WITER OUT | No. |
| Et | Conditioning (°C): | Mr. And | C |
| MUS | Test flame according to IEC 60695-11-5 with conditions as set out | untile until until vari | N/A |
| ال شارا | - Material not consumed completely | LIET WILL WALL WALL | N/A |
| CEN C | - Material extinguishes within 30s | a at at let | N/A |
| 21/2 | - No burning of layer or wrapping tissue | MULL MAY MAY MA | N/A |
| S.2 | Flammability test for fire enclosure and fire barrie | r integrity | N/A |
| t | Samples, material | My my my | |
| White. | Wall thickness (mm) | WILL WILL WILL WILL | Mr. |
| 1st | Conditioning (°C): | | TEX. |
| S.3 | Flammability test for the bottom of a fire enclosure | | N/A |
| S.3.1 | Mounting of samples | The lift of | N/A |
| S.3.2 | Test method and compliance | me me me | N/A |
| MALTER | Mounting of samples | LIER OLIER WITE WALTE | MULT |
| , et | Wall thickness (mm) | The tax of | 1 th |
| S.4 | Flammability classification of materials | LITE WALTE WALT WALT | N/A |
| S.5 | Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W | EK WHITEK WHITEK W | N/A |
| me | Samples, material | WILL MILL MULT AND | a. |
| JEK | Wall thickness (mm) | at let let liet | C. L.T.E.W |
| 20, | Conditioning (°C): | Write Mar Mar And | 100 T |
| Kir N | MECHANICAL STRENGTH TESTS | TEX LIEX OLITER MATERIAL | P |
| T.1 | General (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | The The Table | P P |
| T.2 | Steady force test, 10 N: | (See appended table T.2) | Р |
| T.3 | Steady force test, 30 N: | at at at 5 | N/A |
| T.4 | Steady force test, 100 N: | MULL MULL MULL MILL | N/A |
| T.5 | Steady force test, 250 N: | (See appended table T.5) | P |



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| | EN IEC 62368-1 | in the say of the | |
|----------------------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| T.6 | Enclosure impact test | Mar Mr Mr Mr | Р |
| 41/2 - 41 | Fall test | MI WAIT WILL WILL | Р |
| ute l "Ni | Swing test | et the itel with | P.O |
| T.7 | Drop test | and the sure of the sure | N/A |
| T.8 | Stress relief test: | (See appended table T.8) | Р |
| T.9 | Glass Impact Test: | No such glass | N/A |
| T.10 | Glass fragmentation test | NATIONALLE MALL MALL | N/A |
| STEK IN | Number of particles counted | No such glass | N/A |
| T.11 | Test for telescoping or rod antennas | are are are | N/A |
| The MULT | Torque value (Nm): | No such antennas provided within the equipment. | N/A |
| U untite | MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION | | N/A |
| U.1 | General | | N/A |
| LIEK JA | Instructional safeguard: | No CRT provided within the equipment. | N/A |
| U.2 | Test method and compliance for non-intrinsically protected CRTs | | |
| U.3 | Protective screen | TE OLIVE MILLER MILLER WAL | N/A |
| V A | DETERMINATION OF ACCESSIBLE PARTS | a at at all | N/A |
| V.1 | Accessible parts of equipment | White Mutt was many | N/A |
| V.1.1 | General | LEK TEK STEK STEK | N/A |
| V.1.2 | Surfaces and openings tested with jointed test probes | of the let let | N/A |
| V.1.3 | Openings tested with straight unjointed test probes | in mer my mi m | N/A |
| V.1.4 | Plugs, jacks, connectors tested with blunt probe | E TEX STEX NUTER SINCE | N/A |
| V.1.5 | Slot openings tested with wedge probe | 711 711 71 | N/A |
| V.1.6 | Terminals tested with rigid test wire | INLIER WALLE WHILE WALL | N/A |
| V.2 | Accessible part criterion | at at at the | N/A |
| X | ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS) | | N/A |
| t Jet | Clearance | at the state of | N/A |
| Yaller | CONSTRUCTION REQUIREMENTS FOR OUTDOO | OR ENCLOSURES | N/A |
| Y.1. | General | Indoor equipment | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdict |
|---------|--|---------------------|---------|
| 2/1/2 | The state of the s | Mari Mai Mil | 246 24 |
| Y.2 | Resistance to UV radiation | LER TEX STER | N/A |
| Y.3 | Resistance to corrosion | ing me me a | N/A |
| Y.3 | Resistance to corrosion | itek altek mitek mi | N/A |
| Y.3.1 | Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: | t lift slifet mile | N/A |
| Y.3.2 | Test apparatus | 141 141 14 | N/A |
| Y.3.3 | Water – saturated sulphur dioxide atmosphere | SLIEF WILLE WALLE | N/A |
| Y.3.4 | Test procedure: | at the lite | N/A |
| Y.3.5 | Compliance | THE MULL MULL AN | N/A |
| Y.4 | Gaskets | at all set is | N/A |
| Y.4.1 | General | me me m | N/A |
| Y.4.2 | Gasket tests | LIER NITER WITE | N/A |
| Y.4.3 | Tensile strength and elongation tests | 111 111 111 | N/A |
| aler a | Alternative test methods: | WILL WILL MILLE | N/A |
| Y.4.4 | Compression test | | N/A |
| Y.4.5 | Oil resistance | a mr. m | N/A |
| Y.4.6 | Securing means | The Life Life | N/A |
| Y.5 | Protection of equipment within an outdoor enclosure | | N/A |
| Y.5.1 | General | ALTER INLIER MALTER | N/A |
| Y.5.2 | Protection from moisture | the state of | N/A |
| mr m | Relevant tests of IEC 60529 or Y.5.3 | WILL WILL MUTE IN | N/A |
| Y.5.3 | Water spray test | at at let o | N/A |
| Y.5.4 | Protection from plants and vermin | in mer mer m | N/A |
| Y.5.5 | Protection from excessive dust | - TEK STEK OUTE | N/A |
| Y.5.5.1 | General | 111 111 111 | N/A |
| Y.5.5.2 | IP5X equipment | OLIER WHITE WALTER | N/A |
| Y.5.5.3 | IP6X equipment | at at at | N/A |
| Y.6 | Mechanical strength of enclosures | the more more m | N/A |
| Y.6.1 | General | of the text of | N/A |
| Y.6.2 | Impact test: | The Mr. Mr. | N/A |



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| EN IEC 62368-1 | | | | |
|----------------|--------------------|-----------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment - Part 1: Safety requirements)

Differences according to EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator.....: UL(Demko)

Master Attachment 2021-02-04

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| 111. 11 | CENELEC COMMON MODIFICA | TONS (EN) | Р |
|------------|---|---|-------|
| EK WALTER | IEC 62368-1:2020+A11:2020. All of those in the paragraph below, refe | , figures and annexes which are additional to | P |
| ANTER MUTE | Annex ZB (normative) S Annex ZC (informative) A Annex ZD (informative) IE | ormative references to international publications th their corresponding European publications pecial national conditions deviations C and CENELEC code designations for flexible ords | DIP P |
| 1 | Modification to Clause 3. | , | N/A |
| 3.3.19 | Sound exposure Replace 3.3.19 of IEC 62368-1 wi | h the following definitions: | N/A |
| 3.3.19.1 | momentary exposure level, MEL metric for estimating 1 s sound exp the HD 483-1 S2 test signal applied channels, based on EN 50332-1:20 Note 1 to entry: MEL is measured levels in dB. Note 2 to entry: See B.3 of EN 503 additional information. | osure level from to both 13, 4.2. | N/A |



| report No. | . W11 22D102141311002 | 1 age 42 01 05 | | All All |
|------------|-----------------------|------------------|-------------------|---------|
| mr m | The state of | EN IEC 62368-1 | WILLE WHILE AND M | 7 M. M. |
| Clause | Requirement + Test | The The American | Result - Remark | Verdict |

| Clause | Requirement + Test | Result - Remark | Verdict |
|----------|--|---------------------------|--------------|
| 42.00 | The first set with white whi | y mer me m | · · · · · · |
| 3.3.19.3 | sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T | Whitek whitek whitek wh | N/A |
| | Note 1 to entry: The SI unit is Pa^2 s. $E = \int_{0}^{T} p(t)^2 dt$ | UNLIER WHITER WHITE WHITE | Whitek w |
| | o until white with the | at lifet outet outet | NI EX WALT |
| 3.3.19.4 | sound exposure level, SEL | 10, 10, 10, 10, 1 | N/A |
| | logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans. | Whitek whitek whitek whi | te where |
| | Note 1 to entry: SEL is measured as A-weighted levels in dB. | set asset notes insect | on tiex on |
| | $SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$ | whitek whitek whitek | I.T. W. T.F. |
| | Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information. | on the mult | EX WILLER |
| 3.3.19.5 | digital signal level relative to full scale, dBFS | - 1 to 18 | N/A |
| | levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused | et white white white | whitek white |
| | Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS. | Miles Whiles while while | TEX WILL |
| 2 | Modification to Clause 10 | | N/A |
| 10.6 | Safeguards against acoustic energy sources | i it it it | N/A |
| | Replace 10.6 of IEC 62368-1 with the following: | | in an |
| 10.6.1.1 | Introduction | Not such equipment | N/A |
| | Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: | White white white white | Martek Was |
| Mur | is designed to allow the user to listen to audio or audiovisual content / material; and | White write white wh | ~ '\t |

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn

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| | EN IEC 62368-1 | | | | |
|--------|--|-----------------------|----------------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |
| 20. | the state of the s | The she sh | 72, | | |
| | uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and | Whitek Whitek Whitek | MULLIN MULLE | | |
| | has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a | WALLER WALLER WALLER | uniter white | | |
| | subway, at an airport, etc.). | LIEK WALTER WALTER WA | CLE MICH. M | | |
| | EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. | et white white white | A MARIER MAT | | |
| | Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. | WHITEK WALTER WALTER | MULL MULL | | |
| | NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. | NATER WHATER WALTER W | NITER INITER | | |
| | NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible. | t alter miter anite | COLLEGE MALIER | | |
| | Listening devices sold separately shall comply with the requirements of 10.6.6. | | THE STEEL | | |
| | These requirements are valid for music or video mode only. The requirements do not apply to: – professional equipment; | et write writes with | ek while my | | |
| | NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered | MULIER MULIER MULIER | WALTE WALTE | | |
| | not to be professional equipment. | NATER MATER MATER S | WILLER WALLE | | |
| | hearing aid equipment and other devices for assistive listening; the following type of analogue personal music | TEX WHITEX WHITEX WH | TEX WITER W | | |
| | players: • long distance radio receiver (for example, a multiband radio receiver or world band radio | A WALTER WALTER WALTE | t whi ex whi | | |
| | receiver, an AM radio receiver), and • cassette player/recorder; | LIET SLIER WATER | NATEY WALTER | | |
| | NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other | STER MUTER MUTER W | riet nitet | | |
| | technologies. a player while connected to an external amplifier that does not allow the user to walk around while in | THE WALLE WALL WAL | - 16 t 17 | | |

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| EN IEC 62368-1 | | | | |
|------------------------------------|---|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| WALTER O | For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. | - White white white white | WALTER | |
| ALTEK MINI | The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. | TEX TEX STEX WILEY | NITEK W | |
| 10.6.1.2 | Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz | A LIK THE THE | N/A | |
| unitek unitek unitek unit | The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566. | Whitek whitek whitek whitek | unlifet unlifet lifet un | |
| 10.6.2 | Classification of devices without the capacity to | estimate sound dose | N/A | |
| | General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i>) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. | No such part in this equipment | N/A- SIDE VIOLE SIDE V | |
| | NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term LAeq, T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound | A LIEN WILEY WHILEY WHI | MATER ON THE STREET OF THE STR | |



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| EN IEC 62368-1 | | | | |
|----------------|--------------------|-----------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |

| + 26+ | dB. | 1 4 4 | 24. × |
|--|---|--|--|
| 10.6.2.2 | RS1 limits (to be superseded, see 10.6.3.2) | White Milit while while | N/A |
| ANTER OF | RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. | JUNITER WHITER W | WATER WATER |
| MULL | - The RS1 limits will be updated for all devices as per 10.6.3.2. | White White White Wh | |
| 0.6.2.3 | RS2 limits (to be superseded, see 10.6.3.3) | LET THE MITTER AND | N/A |
| PLIEN WAY FER WALTER WALTER WALTER WALTER WALTER | RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. | LIFE WALTER WALT | WALTER OF THE WA |
| 10.6.2.4 | RS3 limits RS3 is a class 3 acoustic energy source that | DITEX WAITER WALTER WALT | N/A |
| All S | exceeds RS2 limits. | The state of | - 184 |
| 0.6.3 | Classification of devices (new) | WILL MULL MUSEL MUSE | N/A |
| 10.6.3.1 | General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below. | Not such equipment | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdic |
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| 7,1 | t at let tet outline | The water with | 100 00 |
| 10.6.3.2 | RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, T acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme | Whitek wh | AND NA STEP SUBJECT AND THE SUBJECT A |
| 10.6.3.3 | simulation noise" described in EN 50332-1. RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme" | LIE WHITE WHITE WALLEY | N/A |
| MALITER W | simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. | TEX WILLEY WILLEY WILLEY WILLEY | MATER MALIE |
| 10.6.4 | Requirements for maximum sound exposure | the state of the | N/A |
| 10.6.4.1 | Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. | Not such equipment | N/A |
| 10.6.4.2 | Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. | TEK WILLEK WILLEK WILLEK | N/A |



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| Clause | Requirement + Test | Result - Remark | Verdic |
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| 7,10 | the state of the state of | The way with which | 27, 211 |
| MUTER A | Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the | UNLIER WALTER WALTER | untited white |
| | instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. | LIER WALTER WALTER WALT | ex whitex a |
| | The elements of the instructional safeguard shall be as follows: | THE WALTER WALTER | WALLE THE |
| | - element 1a: the symbol (2011-01) - element 2: "High sound pressure" or equivalent | white white whit w | TEX WILEX |
| | wording – element 3: "Hearing damage risk" or equivalent wording | net une une un | t and the |
| | element 4: "Do not listen at high volume levels for long periods." or equivalent wording | to the ties of | nutige out |
| | An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. | LIFE MILIE WHITE WALLE | in antier |
| | The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time. | ex unifex | white white |
| | NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. | TEX MUTER MUTER MUTE | . Will v |
| | NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. | MUTER MUTER MUTER | NUTER WALTE |
| vr. Au | A skilled person shall not be unintentionally exposed to RS3. | HIER WAITER WALLE WAL | VINL. |
| 0.6.5 | Requirements for dose-based systems | Et TEX JEX JE | N/A |
| 0.6.5.1 | General requirements Personal music players shall give the warnings as provided below when tested according to EN | Not such equipment | N/A |



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| 20. 70. | EN IEC 62368-1 | WE MUE MUE MILE | 20, 1 |
|---------------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| WILLER WILLER | The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and | JUNE WALTER WALT | TE WINTER |
| | how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. | TEX WHITE WHITE WHITE | neriex on |
| 10.6.5.2 | Dose-based warning and requirements When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. | THE OUTE WHITE WHITE WAS | N/A |
| TEK WALT | The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss. | Et writes writes writes | N. E. W. |
| 10.6.5.3 | Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. | JUNETER WALTER WALTER WALTER | N/A |
| | The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. | MULIER WALTER WALTER WALTER | et white |
| | Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than | EX MULTER MULTER MULTER WAL | one on it |

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| | EN IEC 62368-1 | | | |
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| Clause | Requirement + Test | Result - Remark | Verdict | |
| 20 | the state of the second of the | in the the | 10. 1 | |
| | 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music | Whitek whitek whitek | unitik white | |
| | (or test signal), the EL may be disabled. | TEX LIEX NITER IN | The Will. | |
| 10.6.6 | Requirements for listening devices (headphones | , earphones, etc.) | N/A | |
| 10.6.6.1 | Corded listening devices with analogue input | Not such equipment | N/A | |
| TEK WALTER WALTER WALTER WALTER | With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. | A WALTER | MALTER MALTER SEE MALTER MILTER MILTR MILTER MILTER MILTER MILTER MILTER MILTER MILTER MILTER MILTER | |
| 10.6.6.2 | Corded listening devices with digital input | - It let still | N/A | |
| | With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. | Life whife whife whife | MAN TEX MALTEX | |
| 10.6.6.3 | Cordless listening devices | at let let | N/A | |
| WILLER WILLER | In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. | Antiek whitek wh | TEX WALTER WALTER WALTER WALTER WALTER WALTER | |
| 10.6.6.4 | Measurement method | 2 24 24 24 | N/A | |
| | Measurements shall be made in accordance with EN 50332-2 as applicable. | EX NIET WITER WAITER | MULTE WA | |
| 3 | Modification to the whole document | | Р | |



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| min m | in the time to | EN IEC 62368-1 | MILIER WALTER WALTE WA | is and an |
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| Clause | Requirement + Test | We Alle A | Result - Remark | Verdict |

| a | nd electronic | equipment is 2011/65/EU. | | | | | 40 |
|-----------|-------------------------|-----------------------------|-------------------------|-----------------------|-------------|----------------------|----------|
| | dd the follow | ing note: use of certain | substances | s in electrical | | | N. |
| M | odification t | to Clause 1 | | | | | |
| * WILLIAM | Y.4.5 | Note | A= A* | | | .01 - 27 | الماري |
| ' All' | 10.6.1 | Note 3 | F.3.3.6 | Note 3 | Y.4.1 | Note | 211 |
| | | | Table 39 | | | | * |
| NITEK UN | 8.5.4.2.3 | Note | 10.2.1 | Note 3 and 4 and 5 | 10.5.3 | Note 2 | X X |
| WALTE | 5.6.8 | Note 2 | 5.7.6 | Note | 5.7.7.1 | Note 1 and Note 2 | M. L.T.E |
| wil | | | | | | and 4 | 7M26 |
| * | 5.4.10.2.1 | Note | 5.4.10.2.2 | Note | 5.6.4.2.1 | Note 2 and 3 | |
| ITEK NIL | 5.4.10.2.1 | Note | 5.4.10.2.2 | Note | 5.4.10.2.3 | Note | |
| mer a | 5.4.2.3.2.4 Table 13 | Note 2 | 5.4.2.5 | Note 2 | 5.4.5.1 | Note | |
| MULT | 5.2.2.2 | Note | 5.4.2.3.2.2 Table 12 | Note c | 5.4.2.3.2.4 | Note 1 and 3 | ahili. |
| - \ | 3.3.8.3 | Note 1 | 4.1.15 | Note | 4.7.3 | Note 1 and 2 | - S- |
| in and | 0.2.1 | Note 1 and 2 | 1 | Note 4 and 5 | 3.3.8.1 | Note 2 | - " |



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| | EN IEC 62368-1 | | |
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| Clause | Requirement + Test | Result - Remark | Verdict |
| 4.Z1 | Add the following new subclause after 4.9: | Mr. Mr. Mr. | N/A |
| | To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. | JUNITER WHITE WHIT | WALTER WA |
| 6 | Modification to 5.4.2.3.2.4 | | N/A |
| 5.4.2.3.2.4 | Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. | No connection to external circuit. | N/A |
| 7 | Modification to 10.2.1 | | N/A |
| 10.2.1 | Add the following to c) and d) in table 39: For additional requirements, see 10.5.1. | Added. The equipment is a low power AC ADAPTER, it does incorporate only non-intentional radiators, but does not contain radio transmitters; the typical usage, installation and physical characteristics make the equipment inherently compliant with all applicable EMF exposure levels (EN 62479: 2010 clause 4.1 Route A). | N/A |
| | | AV (V) | 150 |



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| | EN IEC 62368-1 | | |
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| Clause | Requirement + Test | Result - Remark | Verdict |
| , , , , , , , , , , , , , , , , , , , | The first that the state shift shift | s mer mr m m | |
| 10.5.1 | Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: | MULTER WILLER WILL | N/A |
| | In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. | CHITET WHITE WHITEK WHITEK | un. Lifex u |
| | NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. | WHITEK WHITEK WHITEK WHITE | MALTE |
| | The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. | LIFER WALTER WALTER WALTER. | MLTE. |
| | Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. | White white white whi | ik mili |
| | For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. | The Marin wall | VIVER |
| 12. 21. 12. 21. | NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. | The mill mill mill a | |
| 9 | Modification to G.7.1 | | N/A |
| G.7.1 | Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. | Whitek whitek whitek white | N/A |
| 10 | Modification to Bibliography | | N/A |



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| mile m | in the same of | EN IEC 62368-1 | WILLER WHITE AND THE AND | in min m |
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| Clause | Requirement + Test | We Ave and | Result - Remark | Verdict |

| EX LIER | Add the following notes for | r the standards indicat | ed: | P. P. |
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| in. | IEC 60130-9 NOT | E Harmonized as EN 8 | 0130-9 | 7/1 |
| | | E Harmonized as HD 6 | | at let |
| Wille W | IEC 60309-1 NOT | E Harmonized as EN 6 | 60309-1. | White. |
| 10. | IEC 60364 NOT | E some parts harmoni: | zed in HD 384/HD 60364 series. | |
| LEX S | IEC 60601-2-4 NOT | E Harmonized as EN 8 | 0601-2-4. | TEX. |
| Ver all | IEC 60664-5 NOT | E Harmonized as EN 6 | 0664-5. | 4 - 41 |
| | IEC 61032:1997 NOT | E Harmonized as EN 8 | 31032:1998 (not modified). | |
| CER JE | | E Harmonized as EN 6 | | S. C. C. C. |
| 21/2 | | E Harmonized as EN 6 | 31558-2-1. | 12 |
| L .+ | | E Harmonized as EN 6 | | A 15 |
| C. C. C. | 6/6 | E Harmonized as EN 6 | | TE WITH |
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| 21, 20 | IEC 61643-321 NOT | E Harmonized as EN 6 | 31643-321. | - 4 |
| J 1 | IEC 61643-331 NOT | E Harmonized as EN 8 | 31643-331. | KEN. |
| in and | | | | ale ale |
| 11 | ADDITION OF ANNEXES | | We are the con- | |
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| | | TIONAL CONDITION | O (EN) | an all |
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| | | | S (EN) Class II equipment | P N/A |
| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus | ay and Sweden | | |
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| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm | ay and Sweden se the following is nent type A intended | | |
| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equ | ay and Sweden se the following is nent type A intended sipment or a network | | |
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| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equ shall, if safety relies on cor earthing or if surge suppre | ay and Sweden be the following is nent type A intended sipment or a network nnection to reliable ssors are connected | | |
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| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equipments and the safety relies on correlating or if surge suppresentation between the network terming parts, have a marking statishall be connected to an equipment of the safety relies on the safety relies on correlation or if surge suppresents and the safety relies on the saf | ay and Sweden be the following is nent type A intended sipment or a network nection to reliable ssors are connected nals and accessible ng that the equipment arthed mains socket- plicable countries stikprop skal tilsluttes m giver forbindelse til | Class II equipment | |
| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equipments and the safety relies on correction and the subclaus added: Class I pluggable equipments for connection to other equipments and the safety relies on corrections or if surge suppresentations and the safety and th | ay and Sweden the the following is thent type A intended alipment or a network nection to reliable ssors are connected nals and accessible ng that the equipment arthed mains socket- colicable countries stikprop skal tilsluttes in giver forbindelse til | Class II equipment | |
| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equipments and the subclaus added: Class I pluggable equipments for connection to other equipments and the subclaus added: Class I pluggable equipments and the subclaus added: Class I pluggable equipments and the subclaus added: Class I pluggable equipment and the subclaus added: Class I pluggable equipments and the subclaus and the subclaus added and | ay and Sweden the the following is thent type A intended alipment or a network nection to reliable ssors are connected nals and accessible ng that the equipment arthed mains socket- colicable countries stikprop skal tilsluttes in giver forbindelse til | Class II equipment | |
| ZB | ANNEX ZB, SPECIAL NA Denmark, Finland, Norwa To the end of the subclaus added: Class I pluggable equipm for connection to other equipments and the safety relies on correction and the subclaus added: Class I pluggable equipments for connection to other equipments and the safety relies on corrections or if surge suppresentations and the safety and th | ay and Sweden be the following is nent type A intended dipment or a network nection to reliable ssors are connected nals and accessible ng that the equipment arthed mains socket- plicable countries stikprop skal tilsluttes m giver forbindelse til dvä suojakoskettimilla tilkoples jordet | Class II equipment | |

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| Clause | Requirement + Test | Result - Remark | Verdict |
|-------------------------|--|---------------------------------|---------------|
| SiddSC | Troquitoritorit 1 Tool | TOOUT TOTAL | Verdici |
| 470 | Helte d King down | 20 20 2. | - N/A |
| 4.7.3 TEN | United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall | MUNITER MUTTER MUTTER AND | N/A |
| ver aver | be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex | LIER MITER MITE MILL | apper ap |
| 5.2.2.2 | Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch | No high touch current measured. | N/A |
| and an | current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | White White Whit W | |
| 5.4.11.1 and Annex G | Finland and Sweden To the end of the subclause the following is added: | No TNV circuits. | N/A |
| | For separation of the telecommunication network from earth the following is applicable: | it whit will want | witek wii |
| | If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which | Mariet M | WALTER |
| | shall pass the electric strength test below, or one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. | TEX MITEX WHITEX WHITEX | MUNITER AND |
| | If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition | UNLIER WHITER WHITER WHI | INLIFE WALTER |
| | passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), | A MULTER WHITER WHITER | white white |
| | and | At the the | EK RITEK |
| | is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. | itek unitek whitek whitek | whitek wh |
| | It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. | MALTER WALTER | WILLE WHILE |



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| 21, 2, | EN IEC 62368-1 | auri, mer, mer, en | 20, 20 |
|-------------|--|---|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| EK WALTER | A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions: | t whitet whitet whitet wh | II WALTER |
| | the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; | uniter uniter uniter uniter | Water we |
| | the additional testing shall be performed on all the test specimens as described in EN 60384- 14; | MULTER WALTER WHITER WAT | ie vinliek |
| MALTEK M | the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. | MILIER WALTER MALTER WALTER | MITER |
| 5.5.2.1 | Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (220 V) | TEX WATER WATER WATER WA | N/A |
| 5.5.6 | voltage (230 V). Finland, Norway and Sweden | No such resistors. | N/A |
| initek wate | To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2. | NITE WALTER WALTER WALTER | o Altex only |
| 5.6.1 LL | Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse. | No such equipment. | N/A MILITER MILITER |
| 5.6.4.2.1 | Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. | Approved mains plug used (see appended table 4.1.2) | N/A |



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| | EN IEC 62368-1 | ar in in | |
|--|---|---------------------------------------|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.6.4.2.1 | France After the indent for pluggable equipment type A, the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. | AND TEX WHITEK WHITEK WHITEK | N/A |
| To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area. | | LIEK WHITEK WHITEK WHITEK WH | N/A |
| 5.6.8 AULIFET AURIT | Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted. | MALIER WALTER WALTER | N/A |
| 5.7.6 Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | | No high protective conductor current. | N/A |
| 5.7.6.2 | Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. | TEX WHITEK WHITEK WHITEK | P WALE |
| 5.7.7.1 ALTER MALTER MALTER MALTER | Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what | Not such system. | N/A LEFT LIFET LIFET |



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| | EN IEC 62368-1 | | |
|-----------|---|------------------------|---------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| t et | Tet itel liter milet milet main un | in the same as | |
| | "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – | TEX TEX STEX | White whitek |
| | and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided | WILL MULES MULLER AND | TEK WITEK W |
| | through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" | EX WHITEX WHITEX WALTE | Mustex mus |
| | NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. | Whitek whitek whitek | White whit |
| | The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. | multi wall wall al | et set |
| | Translation to Norwegian (the Swedish text will also be accepted in Norway): | The white white whi | |
| | "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av | Maries White White | while while |
| | apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." | ALTE WALTE WALTER WAY | it onlik v |
| WALTER W | Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet." | JUNITER WHITER WHITER | white white |
| 8.5.4.2.3 | United Kingdom | No external circuits. | N/A |
| | Add the following after the 2 nd dash bullet in 3 rd paragraph: | et liet sliet sliet | - NAL EX WALT |
| | An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury. | The Ties willes | MITEL WALTER |



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| - - 1 /8 | EN IEC 62368-1 | 71, 74, 2, , | 1 1 |
|---------------|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| B.3.1 and | Iroland and United Kingdom | The Man Man | NI/A |
| B.4 | Ireland and United Kingdom The following is applicable: | ANTIER MULLER ANTIER | N/A |
| Whitek Whitek | To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met | Whitek | Whitek whitek we have been suntified whitek |
| G.4.2 | Denmark | Mur. Mur. Aug. | N/A |
| | To the end of the subclause the following is added: | UNITER WAITER WALTER | NLTER WITER V |
| | Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. | Liet whitet whitet whi | TEK WEITEK WILL |
| | CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. | neiter white white w | MULTER MULTER |
| | If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. | TER MULTER MULTER MULTER | White while |
| | Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. | aintlest untilest aintiles ain | TEX WITEX W |
| | Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. | EX WHITEX WHITEX WHITE | White antis |
| | Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a | MILIER WALTER WHITE | WALL MILES |
| | Justification: | cet tet tet t | EX DIFF SIN |
| | Heavy Current Regulations, Section 6c | The Water War | 20, |



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| | EN IEC 62368-1 | | |
|--------|---|-----------------------------|------------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.4.2 | United Kingdom | Direct plug-in equipment | N/A |
| | To the end of the subclause the following is added: | MALITER WALL WALL OF | EX LEX |
| ant an | The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply. | Whitek Whitek Whitek Whitek | Whitek W |
| G.7.1 | United Kingdom | Direct plug-in equipment | N/A |
| | To the first paragraph the following is added: | Mr. Mr. In. | L st |
| | Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. | MITER WHITER WHITER WHITER | White on |
| | NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. | THE METER WALLES | VALLER V |
| G.7.1 | Ireland | Direct plug-in equipment | N/A |
| | To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance | THE THE WATER WATER | uni uni Lifet unife |

Direct plug-in equipment

N/A

N/A

with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish

To the first paragraph the following is added:

A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over

ANNEX ZC, NATIONAL DEVIATIONS (EN)

Standard

Ireland and United Kingdom

10 A and up to and including 13 A.

G.7.2

ZC



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| | EN I | IEC 62368-1 | |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 10.5.2 | Germany | No CRT within the equipment. | N/A |
|-------------|---|------------------------------|-----|
| Me | The following requirement applies: | MULLE MULL MULL MULL | |
| Whitek whi | For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. | ITEK WHITEK WHITEK WHITEK | |
| TEK WILTER | Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. | MULTER WHITER WHITER WHITE | |
| MINITER WAL | NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de | NUTER WALTER WALTER WALTER | |





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| EN IEC 62368-1 | | | | ing they the |
|----------------|--------------------|---------|-----------------|--------------|
| Clause | Requirement + Test | ur an a | Result - Remark | Verdict |

| | EC and CENELEC CODE DESIGNATIONS F | OK FLEXIBLE C | OKD9 (EN) | N/A |
|-----------------|--|---------------|--------------------------|------------|
| | Type of flexible cord | Code de | signations | N/A |
| n, | | IEC | CENELEC | MULL |
| √€ ¹ | PVC insulated cords | 1 | | TEX |
| | Flat twin tinsel cord | 60227 IEC 41 | H03VH-Y | |
| | Light polyvinyl chloride sheathed flexible cord | 60227 IEC 52 | H03VV-F H03VVH2-F | TEK W |
| 0.00 | Ordinary polyvinyl chloride sheathed flexible cord | 60227 IEC 53 | H05VV-F H05VVH2-F | it vini |
| < 4 | Rubber insulated cords | | | SE. |
| | Braided cord | 60245 IEC 51 | H03RT-F | 21/2 |
| İ | Ordinary tough rubber sheathed flexible cord | 60245 IEC 53 | H05RR-F | LIEK |
| | Ordinary polychloroprene sheathed flexible cord | 60245 IEC 57 | H05RN-F | |
| 1000 | Heavy polychloroprene sheathed flexible cord | 60245 IEC 66 | H07RN-F | 17/ |
| | Cords having high flexibility | | | + < |
| | Rubber insulated and sheathed cord | 60245 IEC 86 | H03RR-H | MUT |
| 8 | Rubber insulated, crosslinked PVC sheathed cord | 60245 IEC 87 | H03 RV4-H | LITER |
| | Crosslinked PVC insulated and sheathed cord | 60245 IEC 88 | H03V4V4-H | (A) |
| | Cords insulated and sheathed with halogen- free thermoplastic compounds | | | TE. |
| r i | Light halogen-free thermoplastic insulated and sheathed flexible cords | | H03Z1Z1-F H03Z1Z1H2-F | ex an |
| | Ordinary halogen-free thermoplastic insulated and sheathed flexible cords | | H05Z1Z1-F H05Z1Z1H2-F | WALI |



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| 21/23 21 | | EN IEC 62368-1 | MULTER MALIER MALIE MA | in my m |
|----------|--------------------|----------------|------------------------|---------|
| Clause | Requirement + Test | me me m | Result - Remark | Verdict |

| 5.2 | TABLE: Classification of electrical energy sources | | | | | | P | |
|-----------|--|--------------|------------|-----------|--------------------|----------------------------------|------------|--|
| Supply | Location (e.g. | Test | Parameters | | | ES Class | | |
| Voltage | circuit designation) | conditions | U (V) | I (mA) | Type ¹⁾ | Additional Info ²⁾ | | |
| NETE WALT | The EUT is designed to be supplied by | Normal | <60Vdc | 1214 | √ SS ✓ | onette. | incire win | |
| 3Vdc | | Abnormal | The Aller | 1/11- 1 | - 4 | 7. | ES1 | |
| t art | Internal dry battery | Single fault | y white | MITE - WA | MULT | one - on | (declare) | |
| Supplemen | tary information: | 10 11 | | | | | 7 | |

| 5.4.1.8 TABLE: Working volta | ge measureme | nt collection | TER WITE W | N/A | | |
|------------------------------|--------------------|---------------------|-------------------|----------------|--|--|
| Location | RMS voltage (V) | Peak voltage (V) | Frequency (Hz) | Comments | | |
| et the state with with | aurice - aurice | 74, - 74, | 7E 10 | - TEK -TEK TIP | | |
| Supplementary information: | | | | | | |
| - TEN STE NO NO | 140 | 23 | | LET THE THE | | |

| 5.4.1.10.2 | TABLE: Vicat soft | ening temperature of thermor | ola | stics | 7000 | N/A |
|-------------|-------------------|------------------------------|-----|-------------------|-------------|---------|
| Method | | | : | ISO 306 / B50 | et outlier. | _ |
| Object/ Par | t No./Material | Manufacturer/trademark | , | Thickness (mm) | T softeni | ng (°C) |
| The While | Mr. Mr. M | The test set | | TER MITTER MITTER | White May | in the |
| Supplemen | tary information: | | | | | |
| Mr. 1 | 14 14 14 | A SET SET AS | 5 E | MITE MILITE W | Up Me | The. |

| 5.4.1.10.3 | TABLE: Ball pressure test of thermoplastics | | | | | | | |
|-------------|---|------------------------|-----------|-------|-----------------------|-----|----------------------|--|
| Allowed imp | ression diam | eter (mm) | : | ≤ 2 m | m , t | JEH | _ | |
| Object/Part | No./Material | Manufacturer/trademark | Thickness | (mm) | Test temperature (°C) | | ression eter (mm) | |
| 20, | ne di | TER THE MITTER OF | hite whi | - Mrs | 100 - 100 | 10 | " | |
| Supplement | ary information | on: | | | | | | |

| 5.4.2, 5.4.3 TABLE: Minimu | m Clea | rances | Creepag | e distance | | | | N/A |
|--|-----------------------|-------------------------|------------------|------------------|------------|------------------------|------------------|---------------|
| Clearance (cl) and creepage distance (cr) at/of/between: | U _p (V) | U _{rms} (V) | Freq 1) (kHz) | Required cl (mm) | cl (mm) | E.S. ²⁾ (V) | Required cr (mm) | cr (mm) |
| Supplementary information: | n 4 | · · · | z _n , | A 18 | Et | ATT. | UPE NO | ajnije Lik |

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn

| | K |
|----|---|
| V. | 1 |
| V. | |
| \\ | W |

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|-------------|-------------|
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| me m | EN I | EC 62368-1 | 745 74 |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 5.4.4.2 | TABLE: Minimun | n distance through insu | m | N/A | | |
|--------------------------|--------------------|-------------------------|------------|-------------------|------|--------------------|
| Distance the (DTI) at/of | nrough insulation | Peak voltage (V) | Insulation | Required DTI (mm) | Mea | asured DTI (mm) |
| TEN N | iet nite nite | MULL MET MUL | 7 - A | et et . | SEL. | Lite ni |
| Supplemen | ntary information: | | | | | |

| | | | Solid insulation at frequencies >30 kHz | | | | | | |
|---------------|-----------|----------------|---|---------------------------------|------------------|--------------|-----------------------|--|--|
| Insulation ma | aterial | E _P | Frequency (kHz) | $K_{\!\scriptscriptstyle m R}$ | Thickness d (mm) | Insulation | V _{PW} (Vpk) | | |
| WITE WILL | E WILL MI | 170 | - 21/L - 2 | -# | THE - THE | alifeth onli | TER METER | | |

| 5.4.9 | TABLE: Electric strength tests | ite with me of | L 2n 2n | N/A |
|--------------|--------------------------------|--|------------------|-----------------------|
| Test voltage | applied between: | Voltage shape (Surge, Impulse, AC, DC, etc.) | Test voltage (V) | Breakdown Yes / No |
| Functional: | | ADLIE IL | 2 24 24 | 4 1 |
| MILLE WALL | Mr. Mr. | set set see | NITE WITH WAL | White whi |
| Basic/supple | ementary: | ver mur ally | h m | · At S |
| T. Mur | Mr. M. M. St. St. St. | et alter alter al | TIE WALL MALL | mr - m |
| Reinforced: | NITER WILL MALL WALL MALL | 70, 20, | at the test | TEX STEX |
| - 44 2 | A A SET SET STEE | WILL MILL MILL | Mur Mur. | n |
| Routine Tes | ts: while the man and | A ST ST | ITEK ALTEK IN | TER WITE W |
| /- // | t tet tet stet stet alter s | Land Mary Mary | -m -m -m | t of |
| Supplement | ary information: | | | |

| 5.5.2.2 | TABLE: | Stored discharge of | on capacitors | TEX STEX IN | LIER WALTER | N/A | |
|--------------|-------------|---|---------------|-----------------|------------------------------|-------------|--|
| Location | | Supply voltage (V) Operating and fault condition 1) | | Switch position | Measured voltage (Vpk) | ES Class | |
| WILLE WHILE | ani | mr -m | A 14 14 | JEH- JIEH | WITE WITE | " " The The | |
| Supplement | ary inform | ation: | | | | | |
| X-capacitors | installed | for testing: | at at | TEK LIEF. | alie antie | wer are | |
| ☐ bleeding | resistor ra | ating: | | | | | |
| ☐ ICX: | | | | | | | |



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| 211. 211. | 200 | A | EN IEC 62 | 2368-1 | it when w | F. My | 20, 2 | |
|-------------------|-----------------------|----------------------------|--|--|------------------------------------|---------------------------------------|---------------------------------------|--|
| Clause | Requiren | nent + Test | mr. mr. | R | Result - Remark | EK JIEK | Verdict | |
| 4. | | J. J. | at the | The Maria | Mr. Mr. | 70. 2 | | |
| 5.6.6 | TABLE: | Resistance of | protective conduc | ctors and te | rminations | JEK N | N/A | |
| Location | | | Test current (A) | | | ge drop F (V) | Resistance (Ω) | |
| 24, 20 | | | 4 14 16° | wite -w | VII. AVII. | 76. 20. | 12. | |
| Supplemen | tary inform | ation: | | -10- | | | | |
| | . ,. | et et | JER JER | in aire | 24, 24 | | | |
| TEK TER | ON ITE. | Maria Maria | The tile | i i | - 16t S | t Tiet i | NITER NAV | |
| 5.7.4 | TABLE: | Unearthed ac | cessible parts | ris whi | my my | 20, 2, | N/A | |
| Location | ocation Operating and | | | et Tet | Parameters | MALIFE MALI | ES | |
| alifek millek ami | | fault conditions | S Voltage (V) | Voltage (V _{rms} or V _p | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| T 2 | * .0* | 18th - 5th | ALTER MITTER | Mr. Mr. | 7,000 | | | |
| Supplemen | tary inform | ation: | 11, 2, | At A | | CT NICE | 11-16 24 | |
| Сиррістіст | | allorii At | THE WALLEY | 60, 210° | m. m | | | |
| C. WILLE | They a | ver aver | in in | A 15 | THE THE | - TEN | The Abril | |
| 5.7.5 | TABLE: | Farthed acce | ssible conductive | nart | We with | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A | |
| | 2 / 1/2 | | | TEN STEP | 2+ P | Wite Mil | 1071 | |
| | , t | | 12 112 | · [] Three P | hase: [] Delta | []Wve | _ | |
| , | | | | | <u> </u> | [] WyC | 4 | |
| 25 10 | ribution Sy | stem: | 7 2 2 | | | الد ب | | |
| Location | | | Fault Condition No in IEC 60990 clause 6.2.2 | | Touch current Col | | ment | |
| - m.c | mer in | 20, 1 | ` | Et CET | NITER - MITE | WILL MA | MULL | |
| Supplemen | tary Inform | nation: | | | | | | |
| 21/2 211 | - 10 | , | L St. Set | LIER | LIE WITE W | ives and | 21/2 | |
| Alt S | et Jiet | WILL WILL | WILL WILL | 4, 4, | | at at | A Part | |
| 5.8 | TABLE: | Backfeed saf | eguard in battery | backed up | supplies | in with | N/A | |
| Location | | Supply (voltage (V) | Operating and fault condition | Time (s) | Open-circuit voltage (V) | Touch current (A) | ES Class | |
| - 18th | JEE N | TEL TELTE VI | Tr. Th. An | ~ | 1 A | 70 1 - 7 | * -TE* | |
| Supplemen | tary inform | nation: | | | - (O) | | | |
| ITEK SI | TE DITE | WILL WAL | 20 20 | - | st st | TEX TEX | - CIER | |
| are are | -10' | A | - LIET LIEB | WILLE OU | it military | C. Miles | 2/12 1 | |
| 6.2.2 | TABLE: | Power source | e circuit classifica | tions | + | et Jet | P | |
| Location | Oper | rating and fault lition | Voltage (V) | Current (A | Max. Power ¹⁾ (W) | Time (S) | PS class | |

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| | | EN IEC 62 | | 4. 24, | | 1 4 |
|---------------|-------------------|--------------|---------------|-------------|-------------|---------------|
| Clause | equirement + Test | | Result - Rema | Verdict | | |
| | Normal condition | <15 | 77. | - NV - N | - 10 - 1 | et et |
| Dry battery | Signal fault | TER STER STE | - 111-12 A | Water - Mar | 711 211 | PS1 (declare) |
| | Signal fault | 240 - 20 | , Et | TEK -TEK | NITER MILIT | _ (deolare) |
| Supplementary | information: | | | | • | |

| 6.2.3.1 | TABLE: Determi | nation of Arcing PIS | | | N/A |
|------------------|-------------------|--------------------------------------|----------------------------|------------------|-------------------------|
| Location | | Open circuit voltage after 3 s (Vpk) | Measured r.m.s current (A) | Calculated value | Arcing PIS? Yes / No |
| _{LEF} . | TEK STEK MITE | White while we | 7µ = 7n | | et zet |
| Supplemen | tary information: | | | | |

| 6.2.3.2 | TABLE: Determination of resistive PIS | | | | | | | |
|-----------|---------------------------------------|-------------------------------|---------------------|-------------------------|--|--|--|--|
| Location | | Operating and fault condition | Dissipate power (W) | Arcing PIS? Yes / No | | | | |
| 70, 2 | | Ex Tr RITE LITE | 2 - 242 29 | 4. | | | | |
| Supplemen | tary information: | | | | | | | |
| الد الحد | t let let | LIER WILL WALL WALL | ne me in | | | | | |

| 8.5.5 | TABLE: High | pressure lamp | mer mer me | 201. 2n. | N/A |
|-----------|-------------------|-------------------|------------------|--------------------------------------|--|
| Lamp manu | ufacturer | Lamp type | Explosion method | Longest axis of glass particle (mm) | Particle found beyond 1 m Yes / No |
| | et det d | EK - JEK STEK WIN | - Mury Mury | $v_{i} = \overline{v_{i}}$, v_{i} | |
| Supplemen | tary information: | | | | |
| at The | TEK NITE | WITEL WILL WAL | 211, 211, 21, | الله الحد الم | - Et S |



| EN IEC 62368-1 | | | | | | | |
|----------------|--------------------|----------|-----------------|------|---------|--|--|
| Clause | Requirement + Test | Mur Mu m | Result - Remark | CERT | Verdict | | |

| 9.6 | TABLE | : Temper | Temperature measurements for wireless power transmitters | | | | | | | |
|---------------|---------------------------------|----------------|--|----------------------------------|--------------|-----------------------|---------------------------------------|----------------|-----------------|--|
| Supply voltag | e (V) . | | | : Et | VILLE AN | is with | ans. | 11, 1 | | |
| Max. transmit | powe | r of transm | nitter (W) | : | | y Jiek | CLIEK OF | LIER WILL | _ | |
| | w/o receiver and direct contact | | | with receiver and direct contact | | ver and at of 2 mm | with receiver and at distance of 5 mm | | | |
| Foreign obje | ects | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | |
| L | at the | Ket s | Jet - Jie | · METER | Wr N | | 1, | <u></u> | J+ - J | |
| Supplementar | ry infor | mation: | | | | | | | | |

| 5.4.1.4, 9.3, B.1.5, B.2.6 | rature mea | surem | ents | | | | WETERP WILL |
|-------------------------------|--|------------------------|-------------------------------|----------|--------------------------------|---------------------|-------------|
| Supply voltage (V) | | : | 3Vdc | 24 - 2 | * | - - | _ |
| Ambient temperature during to | est T _{amb} (°C) |) : | 45.0 | | | | _ |
| Maximum measured temperat | rt/at: | | Allowed T _{max} (°C) | | | | |
| Internal wire | Internal wire | | | | | AN THE | 80 |
| PCB near C1 | 49.4 | mir 1 | | - Tet | 130 | | |
| PCB near U1 | 52.1 | antille an | LIER WY LIE WALLE | | 130 | | |
| PCB near D3 | 49.4 | | et -TEX | NITE NOT | 130 | | |
| Enclosure inside | ex allex | WILLE | 48.6 | VrMur | 711-1 |) - - - | Ref. |
| Ambient | and the same of th | 18th | 45.0 | EK WITEK | WILLE M | The Albert | mr. 4 |
| Accessible part | where m | · . | er t | t dit | TEK ST | EX MITEX | WITER WY |
| Plastic outside | NITEK MIT | Ex M | 27.7 | mr. a | 1 - m | | .77 |
| Ambient | 25.0 | mliek oni | ier White | mri- m | 77/2 | | |
| Temperature T of winding: | R ₁ (Ω | 2) t ₂ (°C) | $R_2(\Omega)$ | T (°C) | Allowed T _{max} (°C) | Insulation class | |
| WILLE MULLE MULL MULL | nu. | ΩV. |) + -A | et set | Willet or | EK NITER | MULLE M |
| | | J€ | | 0 5 | 12. " | 100 | z_0 |

Supplementary information:

- 1. Tma should be considered as directed by 66pplicable requirement.
- 2. Tma is not included in assessment of Touch Temperatures (Clause 9).
- 3. The temperatures were measured under worst case normal mode as described in B.2.5 at voltages as

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| min m | Will the state of | EN IEC 62368-1 | ry Mry Ch |
|--------|--------------------|-----------------|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |

above.

- 4. With a specified maximum ambient temperature and test temperature of 45°C.
- 5. When tested for touch temperature limit of clause 9, the ambient was conducted between 20-30°C.

| B.2.5 | JALIA TA | ABLE: In | put test | 7/1 | A TEX | المان المثان | A WITER | WALTER WALTER WAL | |
|---------|----------------------------|----------|---------------|---------------|-------------------|--------------|-------------|-------------------|--|
| U (V) | Hz | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status | |
| 3.00 | dc | 0.021 | 70 | 0.063 | y with hi | ER TIE | White My | Normal working | |
| Suppler | Supplementary information: | | | | | | | | |
| The ma | ximum | measure | d current und | er rated volt | tage did not exce | ed 110% of | the rated c | urrent. | |

| B.3, B.4 | TAB | LE: Abnormal | operating | and fault | condition t | ests | The Mr In P |
|---|------------|---------------------------|--------------------------|--------------|-------------|---|---|
| Ambient tem | perat | ure T _{amb} (°C) | 711 | - 10 | : | 25°C, if r | not specified — |
| Power source for EUT: Manufacturer, model/type, outputrating: | | | | | | | 74 |
| Component I | No. | Condition | Supply voltage (V) | Test time | | | Observation |
| Battery | 216 Est | Reverse | 3 | 10min | | 4 | Unit does't work, No damage, no hazards |
| C1 | كاي | SC | 3.0 | 10min | Mr. M | 75 -4 11.5 | Unit shutdown immediately, No damage, no hazards |
| R1 | TEN. | SC | 3.0 | 10min | NITE - WILL | UMC. | Unit shutdown immediately, No damage, no hazards |
| U1 pin1-7 SC | | 3.0 | 10min | EK LIER | MULTER | Unit shutdown immediately, No damage, no hazards | |

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

- 1) S-C: Short-circuited;
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

| M.3 | TABLE: Pro | TABLE: Protection circuits for batteries provided within the equipment N/A | | | | | | | | |
|------------------|----------------------------------|--|---------|---|--|--|--|--|--|--|
| Is it possible t | o install the b | pattery in a reverse polarity position?: | m m - m | _ | | | | | | |
| Equipment S | Equipment Specification Charging | | | | | | | | | |



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| alery ale | My all all | EN IEC 62368-1 | WALTER WALTER WALTER | and any an |
|-----------|--------------------|----------------|----------------------|------------|
| Clause | Requirement + Test | The Alexander | Result - Remark | Verdict |

| | | | Vo | Itage (V) | | | | | Current (A) | | |
|--|----------------|-----------------|---------------------------------|----------------------|-------------------|------------|--------------|-------------|-------------------------|---------|--|
| | | LET LET | tex tex street intree much of a | | | | | 21/2 | 24, - 24, | | |
| | | | | | Battery | spec | cification | | | | |
| | | Non-recharge | n-rechargeable batteries | | | | | | e batteries | | |
| | | Discharging | | ntentional | | Charging [| | | Discharging | Reverse | |
| Manufacturer/type | | current (A) | charging current (A) | | Voltage (V) Curre | | ent (A) | current (A) | charging current (A) | | |
| car at at | | CIEL CIE | Et NITER WI | | The Man | | -24. | 14 - A | t | | |
| Note: The tes | ts of M.3.2 ar | e applicable on | ly w | hen above | appropria | ate d | ata is | not avai | lable. | | |
| Specified batt | ery temperat | ure (°C) | | | 7/2 | · 20, | | 7. 2. | - et el | <u></u> | |
| Component Fault Charge/ No. condition discharge mode | | ode | Test time | Temp. | | | Voltage Obse | | rvation | | |
| | | × | , et | رزا <u>دیا</u> ۱۱ | OUTER-INC | | 17/ | wer. | the the | | |
| Supplementar | y information | : | | | | | | | | | |

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

| | TABLE: Charging safeguards for equipment containing a secondary lithium battery | | | | | | | | | |
|--------------|---|---------------------|----------------------|----------------------|---|--|--------|--|--|--|
| Maximum spe | ecified ch | narging voltage | e (V) | | - 37 L | at all . | _ | | | |
| Maximum spe | ecified ch | narging current | t (A) | | ST - WILL | Mrs. Mrs. M. | _ | | | |
| Highest spec | ified cha | rging temperat | ure (°C) | | j | TER STER OUT | | | | |
| Lowest speci | fied char | ging temperati | ure (°C) | | : ===================================== | 201 11 | | | | |
| Battery | | Operating | | Measurement | | Observation | n | | | |
| manufacturer | /type | and fault condition | Charging voltage (V) | Charging current (A) | Temp. (°C) | | | | | |
| at let | TEK | LIEN OLIEN | UNITE WAL | 1/15 1 | . 7n | ************************************** | CEF SE | | | |
| Supplementa | ry inform | ation: | | | | | | | | |

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

| Q.1 | TABLE: Circuits intended for interconnection with building wiring (LPS) N/A | | | | | | |
|---------|--|---------------------|-------------------|---------------------|----------|------------|-------|
| Output | Condition | U _{oc} (V) | Time (s) | I _{sc} (A) | | S (VA) | |
| Circuit | Condition | O _{oc} (V) | | Meas. | Limit | Meas. | Limit |
| - mr 1 | in man | - LE | - 18 4 | 17EH 1817 | 10-47 EV | n-tile whi | ALL. |



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| 21/2 21 | | EN IEC 62368-1 | uniter white white wh | r. 24. 24. |
|---------|--------------------|----------------|-----------------------|------------|
| Clause | Requirement + Test | Mar Mar Mark | Result - Remark | Verdict |

| Suppleme | entary Inf | ormation | : | | | | | | | | | | |
|----------|------------|----------|------|--------|-----|-----|------|----|------|-----|-----|---|--|
| 20 | , , L | * | at . | A.E.K. | JEK | TEL | MULL | me | 21/2 | in. | 10, | 4 | |

| T.2, T.3, T.4, T.5 | TABLE: Ste | eady force te | st | | | A St. 1st. 1st. 1st. |
|---------------------------------|------------|--------------------|---------------|--------------|----------------------|--|
| Part/Locatio n | Material | Thickness (mm) | Probe | Force (N) | Test Duration (s) | Observation |
| Internal components (T.2) | TEX WALTE | unitek w | Figure V.2 | 10 | 5 | No reduction the clearances and creepage distances |
| Enclosure bottom (T.5) | Plastic* | See table 4.1.2 | -14UL | 250 | 5 | No cracking, no damage. |
| Enclosure top (T.5) | Plastic* | See table 4.1.2 | MULLI | 250 | TEX IN | No cracking, no damage. |
| Enclosure side (T.5) | Plastic* | See table 4.1.2 | ALTER V | 250 | 5 | No cracking, no damage. |

| T.6, T.9 | TABLE: Impa | ct test | | LITER MILTER WILL WILL WILL VILLE P. W. |
|---------------------------|-------------|-----------------|-------------|---|
| Location/Part | Material | Thickness (mm) | Height (mm) | Observation |
| Enclosure bottom (T.6) | Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |
| Enclosure top (T.6) | Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |
| Enclosure side (T.6) | Plastic* | See table 4.1.2 | 1300 | No cracking, no damage. |

*Test was performed on product with each source listed in table 4.1.2.

| T.7 | TABLE: Drop test | at all | LIEK CLIEK | NITE WILL MILL MILL MP |
|---------------------------|------------------|-----------------|-------------|-------------------------|
| Location/part | Material | Thickness (mm) | Height (mm) | Observation |
| Enclosure bottom (T.7) | Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |
| Enclosure top (T.7) | Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |
| Enclosure | Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |



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| | EN IEC | 62368-1 | | |
|----------|-------------------------|------------------|-----------|---------|
| Clause | Requirement + Test | Result - F | Remark | Verdict |
| side (T | 7.7) | white with white | THE TEX | TER STE |
| Suppleme | ntary information: | | | |
| CIET . | with with whi are an an | + + | LEK SEK S | EK STEE |

| T.8 | TABLE: Stres | s relief test | 70. | et el | - TEN TEN STEEL STEEL |
|---------------|-----------------|--------------------|------------------------------|-----------------|---|
| Location/Part | Material | Thickness (mm) | Oven Temperatur e (°C) | Duration (h) | Observation |
| Enclosure | Plastic* | See table 4.1.2 | 70°C | 7h | No distortion, no softening, no cracking. |
| Supplementa | ry information: | | | | |
| *Test was nei | rformed on pro | duct with each sou | rce listed in t | able 4 1 2 | The The The Top |

| X | TABLE: Alternat | TABLE: Alternative method for determining minimum clearances distances | | | | | | | | |
|---------|------------------------|--|---------------------|-----------------|-------|--|--|--|--|--|
| Clearan | nce distanced between: | Peak of working voltage (V) | Required cl (mm) | Measure (mm) | | | | | | |
| - WITE | while we are | 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | 10 Test (10) | OLIEK MILE | WALTE | | | | | |
| Supplen | mentary information: | | | | | | | | | |

| 4.1.2 | TABLE: Critical components information | | | | | | | | | |
|----------------------|--|---------------------|-------------------------------------|-----------------|-------------------------------------|--|--|--|--|--|
| Object / part No. | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | | | | | |
| Plastic enclosure | FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV | AC310(+) | V-2, 60°C, min. thickness 0.8mm. | UL 94 | UL E162823 | | | | | |
| PCB | Interchangeable | Interchangeabl e | Min. V-1 , 130°C | UL 796 UL 94 | UL'ULTEK MILT | | | | | |
| Internal wire | Interchangeable | Interchangeabl e | Min. 30AWG , 80°C | UL 796 UL 94 | UL MALTER | | | | | |

Supplementary information:

Supplementary information:

¹⁾ License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



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Photo Documentation

Reference No.: WTF22D10214191Y002



Figure 1: Overall view



Figure 2: Overall view



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Reference No.: WTF22D10214191Y002



Figure 3: Internal view



Figure 4: Internal view



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Photo Documentation

Reference No.: WTF22D10214191Y002



Figure 5: Internal view

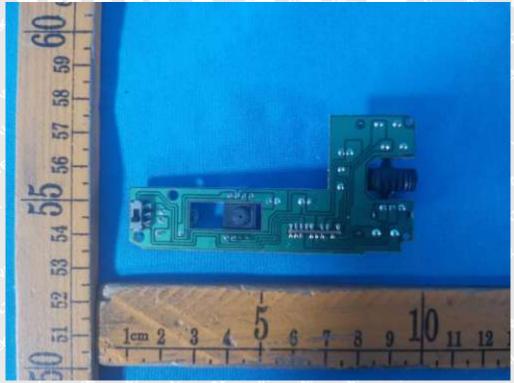


Figure 6: PCB view



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Photo Documentation

Reference No.: WTF22D10214191Y002

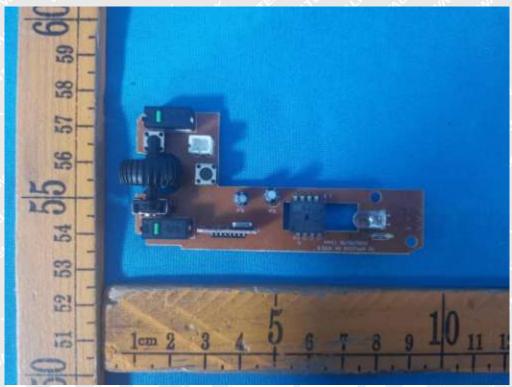


Figure 7: PCB view

===== End of Report ======





TEST REPORT

Report No..... : WTF22D10214191Y001

Applicant: Mid Ocean Brands B.V.

Address.....: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer: 114628

Address..... : --

Product.....: EU plug(Adapter)

Model(s): : MO8827, MO8412, MO9747, MO9785

Total pages.....: 84 pages and 5 pages of photo.

Standards.....: EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment -

Part 1:Safety requirements

Date of Receipt sample : 2022-10-28

Date of Test.....: 2022-10-28 to 2022-11-21

Date of Issue.....: 2022-11-22

Test Result.....: : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City,

Guangdong, China Tel: +86-769-2267 6998 Fax: +86-769-2267 6828

Compiled by:

Lucas Cao/ Project Engineer

ucas Cao

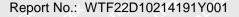
Approved by:

Sam Qi / Designated Reviewer



Report No.: WTF22D10214191Y001 Page 2 of 84

| Test Item description EU plug(Ad | dapter) |
|--|---|
| Trade Mark(s) MOB | at the fift that which while |
| | |
| Model/Type reference | |
| | 240Va.c., 50/60Hz, 0.15A |
| Output: 5V | uc, IA |
| Whether parts of tests for the product have been subcor Yes No If Yes, list the related test items and lab information: Test items: Lab information: | ntracted to other labs: |
| Summary of testing: | the liter of the mark while and |
| Tests performed (name of test and test clause): | Testing location: |
| - EN IEC 62368-1:2020+A11:2020 | No. 77, Houjie Section, Guantai Road, |
| The submitted samples were found to comply with the requirements of above specification. | Houjie Town, Dongguan City, Guangdong, China |
| checked. The product fulfils the requirements of EN IEC 6236 Use of uncertainty of measurement for decisions o | the the time the time the |
| No decision rule is specified by the IEC standard, w applicable limit according to the specification in that sta without applying the measurement uncertainty ("simple "accuracy method"). | hen comparing the measurement result with the indard. The decisions on conformity are made |
| ☐ Other:(to be specified, for example when required requirements apply) | by the standard or client, or if national accreditation |
| Information on uncertainty of measurement: | |
| The uncertainties of measurement are calculated by the | e laboratory based on application of criteria given by |
| IECEE. | hods, decision sheets and operational procedures of |
| | measurement uncertainty principles and applying EE scheme, noting that the reporting of the |





Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

MOB

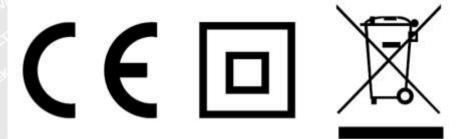
MO8827

PO BOX 644,6710 BP(NL)

Input:100-240V~50/60HZ 0.15A

Output:5V==1A

Made in China 41-111110



Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- 2. The CE marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



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| Test item particulars: | with anith white and when any |
|--|--|
| Product group: | |
| Classification of use by: | ☐ Ordinary person ☐ Children likely present |
| | ☐ Instructed person |
| | ☐ Skilled person |
| Supply connection: | AC mains DC mains |
| | not mains connected: |
| Supply toloronge | ☐ ES1 ☐ ES2 ☐ ES3 ☐ H10%/-10% |
| Supply tolerance: | +10%/-10% +20%/-15% |
| | □ +_%/% |
| | None |
| Supply connection – type: | ☐ pluggable equipment type A - |
| WELL MUES MET LINE AND ME | non-detachable supply cord |
| | appliance coupler |
| | ☐ direct plug-in |
| | pluggable equipment type B - |
| | non-detachable supply cord |
| | appliance coupler |
| | permanent connection |
| Considered current rating of protective device | ☐ mating connector ☐ other: not Mains connected ☐ UK: 13 A; Others: 16 A |
| considered current rating of protective device | Location: Duilding equipment |
| | □ N/A |
| Equipment mobility: | ☐ movable ☐ hand-held ☐ transportable |
| | ☐ direct plug-in ☐ stationary ☐ for building-in |
| | wall/ceiling-mounted SRME/rack-mounted |
| Overvoltage category (OVC): | ☐ other: ☐ OVC II ☐ OVC III |
| Overvoltage category (Ovo) | OVC IV other: not Mains connected |
| Class of equipment: | ☐ Class II ☐ Class III |
| | ☐ Not classified ☐ |
| Special installation location:: | N/A ☐ restricted access area |
| Pollution degree (PD): | ☐ outdoor location☐ ☐ PD 1 |
| | |
| Manufacturer's specified T _{ma} : | 16, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14 |
| IP protection class: | ☐ IP |
| Power systems: | TN TT TTV L-L |
| Altitude during operation (m): | ☐ not AC mains ☐ 2000 m or less ☐ _5000_m |
| | |
| Altitude of test laboratory (m): | |
| Mass of equipment (kg): | :0.021kg |



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| Possible test case verdicts: | A THE THE LITE WITH AND WINE W |
|---|---|
| | • N/A |
| - test case does not apply to the test object | |
| - test object does meet the requirement | : P (Pass) |
| test object does not meet the requirement | : F (Fail) |
| Testing: | William Mr. Mr. Mr. Mr. Mr. |
| Date of receipt of test item | : 2022-10-28 |
| Date (s) of performance of tests | 2022-10-28 to 2022-11-21 |
| General remarks: | The same of the same of |
| "(see Enclosure #)" refers to additional informa "(see appended table)" refers to a table append | |
| Throughout this report a 🗌 comma / 🔀 poi | nt is used as the decimal separator. |
| General Product Information: | Man And An An An A List List |
| Product Description: | TEX SITES WITE WITE WITE WAS WITE |
| The equipment is class II EU plug(Adapter) for equipment, for indoor use only. | or the use in information technology and audio/video |
| 2. The EU plug(Adapter)'s top enclosure is sec | cured to the bottom enclosure by ultrasonic welding. |
| 3. The test samples are pre-production sample | without serial numbers. |
| 4. Specified maximum ambient temperature is | 45°C. |
| 5. The equipment was evaluated for a maximul | m operating altitude of 2000m. |
| 6. The models are in compliance with the requi | rements of LPS (Annex Q). |
| 7. The European plug provided in the equipme | nt has been tested according to EN 50075:1990. |
| Model Differences | The Marie Marie And |
| 1. All these models are same as each other on | ly except for the model name, appearance in colour. |
| 2. The model MO9785 was selected for all test | ing. In the second second |
| Additional application considerations | at the fifth the still out of |

N/A



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| Clause | Possible Hazard | | | |
|--|---|------------|---------------------|---|
| 5 | Electrically-caused injury | | | |
| Class and Energy Source | Body Part | Safeguards | | |
| (e.g. ES3: Primary circuit) | (e.g. Ordinary) | В | S | R |
| ES3: All circuits except for output circuits | Ordinary | N/A | N/A | Enclosure See 5.4.2, 5.4.3 and 5.5.3 |
| ES1: Output circuits and Secondary output terminal | Ordinary | N/A | N/A | N/A |
| 6 | Electrically-caused fire | | , | |
| Class and Energy Source | Material part | | Safeguards | |
| (e.g. PS2: 100 Watt circuit) | (e.g. Printed board) | В | 1 st S | 2 nd S |
| PS3: All primary circuits inside the equipment enclosure | Enclosure | See 6.3 | V-0 | IN/A |
| PS3 circuits | PCB | See 6.3 | V-1 or better | N/A |
| PS3 circuits | Plastic materials not part of PS3 circuit | See 6.3 | V-2 or better | N/A |
| PS3 circuits | The other components / materials | See 6.3 | See 6.4.5, 6.4.6 | N/A |
| 7 | Injury caused by hazardous si | ubstances | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. Ozone) | (e.g., Skilled) | В | S | R |
| N/A | N/A | N/A | N/A | N/A |
| 8 | Mechanically-caused injury | | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. MS3: Plastic fan blades) | (e.g. Ordinary) | В | S | R |
| MS1: Mass of the unit <7kg | Ordinary | N/A | N/A | N/A |
| MS1: Smooth Edges and corners | Ordinary | N/A | N/A | N/A |
| 9 | Thermal burn | | | |
| Class and Energy Source | Body Part | | Safeguards | |
| (e.g. TS1: Keyboard caps) | (e.g., Ordinary) | В | S | R |
| TS1: Plastic enclosure | Ordinary | N/A | N/A | N/A |
| TS3: Internal parts/circuits | Ordinary | N/A | N/A | Enclosure |
| 10 | Radiation | | | |
| Class and Energy Source | Body Part | | Safeguards | |



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| (e.g. RS1: PMP sound output) | (e.g., Ordinary) | В | S | R |
|---|------------------------------|----------------|-----------|---------------|
| N/A | "11/1- "11/1- " | A - A | TEX - JEX | alter - alter |
| Supplementary Information: "B" – Basic Safeguard; "S" – Su | pplementary Safeguard; "R" – | Reinforced Saf | eguard | Alt Alt |

| ENERGY SOURCE DIAGRAM | | | | | |
|---|--|------------------------|-------------------|----------|--|
| Indicate which energy sources are included in the energy source diagram. Insert diagram below | | | | elow | |
| ⊠ ES SEE THE OVERVIEW | | S ⊠ TS CES AND SAFE | ⊠ RS GUARDS FO | R DETAIL | |

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| Clause | Requirement + Test | in min my | Result - Remark | et et | Verdict |

| 4 | GENERAL REQUIREMENTS | | |
|--------------|---|--|-----------|
| 4.1.1 | Acceptance of materials, components and subassemblies | (See appended table 4.1.2) | P |
| 4.1.2 WALTER | Use of components | Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G | P.V. |
| 4.1.3 | Equipment design and construction | Evaluation of safeguards regarding preventing access to ES3 parts, limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered. | Puntifick |
| 4.1.4 | Specified ambient temperature for outdoor use (°C) | Indoor use only | N/A |
| 4.1.5 | Constructions and components not specifically covered | No constructions and components. | N/A |
| 4.1.8 | Liquids and liquid filled components (LFC) | No such parts. | N/A |
| 4.1.15 | Markings and instructions | (See Annex F) | Р |
| 4.4.3 | Safeguard robustness | See below | Р |
| 4.4.3.1 | General | at all tell tell o | P |
| 4.4.3.2 | Steady force tests | (See Annex T.2 and T.4). | Р |
| 4.4.3.3 | Drop tests | (See Annex T.7) | P |
| 4.4.3.4 | Impact tests | THE THE SECTION AND THE SECTIO | N/A |
| 4.4.3.5 | Internal accessible safeguard tests | The external enclosure cannot be opened without damaging the product. | N/A |
| 4.4.3.6 | Glass impact tests | No such glass used. | N/A |
| 4.4.3.7 | Glass fixation tests | No such parts. | N/A |
| + Alt | Glass impact test (1J) | | N/A |
| All Fr | Push/pull test (10 N) | antit anti vanit vani | N/A |
| 4.4.3.8 | Thermoplastic material tests | (See Annex T.8) | P |



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| Clause | Requirement + Test | Result - Remark | Verdic | | |
| 4.4.3.9 | Air comprising a safeguard | (See Annex T) | P | | |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness | After tests of 4.4.3.2, 4.4.3.3, and 4.4.3.8, no safeguard damaged. Class 3 energy sources do not become accessible to an ordinary person or to an instructed person and all other safeguards do remain effective. | MPP | | |
| 4.4.4 | Displacement of a safeguard by an insulating liquid | No such liquid. | N/A | | |
| 4.4.5 | Safety interlocks | No such parts. | N/A | | |
| 4.5 | Explosion | TEX WITER WHITE MUTTER AND | P | | |
| 4.5.1 | General | No explosion occurs during normal/abnormal operation and single fault conditions | PI | | |
| 4.5.2 | No explosion during normal/abnormal operating condition | (See Clause B.2, B.3) | on P | | |
| NITE WAL | No harm by explosion during single fault conditions | (See Clause B.4) | Р | | |
| 4.6 | Fixing of conductors | See below | Р | | |
| Me | Fix conductors not to defeat a safeguard | MILL WILL WHILL WHILL | Р | | |
| TEX | Compliance is checked by test | (See Clause T.2) | Р | | |
| 4.7 | Equipment for direct insertion into mains socket | -outlets | Р | | |
| 4.7.2 | Mains plug part complies with relevant standard: | The dimension and construction of the injection part of plug was tested and in compliance with: For European plug: EN 50075:1990 | nii P IEX M | | |
| 4.7.3 | Torque (Nm) | EU plug: Max. 0.007Nm | Р | | |
| 4.8 | Equipment containing coin/button cell batteries | a de de de | N/A | | |
| 4.8.1 | General | WILL MULL MALL MALL MALL | N/A | | |
| 4.8.2 | Instructional safeguard: | at let itet sitet | N/A | | |
| 4.8.3 | Battery compartment door/cover construction | in Mur and an a | N/A | | |
| ie write | Open torque test | at liter writer writer wa | N/A | | |
| 4.8.4.2 | Stress relief test | 40 | N/A | | |
| 4.8.4.3 | Battery replacement test | MITTER MALIE WALL WALL | N/A | | |
| 4.8.4.4 | Drop test | 1 1 1 1 | N/A | | |



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| "Aler" | The Tall the Tall the Tall the | TER LIFE OUT WITH WITH WALL WALL | M |
| 4.8.4.5 | Impact test | The state of the | N/A |
| 4.8.4.6 | Crush test | * BLIEF BUTE WALL WALL WILL | N/A |
| 4.8.5 | Compliance | at the state of the | N/A |
| . 2, | 30N force test with test probe | With All Aut and and | N/A |
| ER WILLE | 20N force test with test hook | it to the street materials | N/A |
| 4.9 | Likelihood of fire or shock due to ent | ry of conductive object | P |
| 4.10 | Component requirements | TEX THE OTHER WITE MUTE MINTE | W P |
| 4.10.1 | Disconnect Device | (See Annex L) | Р |
| 4.10.2 | Switches and relays | No switches and relays used | N/A |

| 5 | ELECTRICALLY-CAUSED INJURY | | Р |
|-----------|---|---|--------------|
| 5.2 | Classification and limits of electrical energy sources | | |
| 5.2.2 | ES1, ES2 and ES3 limits | The the set | Р |
| 5.2.2.2 | Steady-state voltage and current limits | (See appended table 5.2) | N. P |
| 5.2.2.3 | Capacitance limits | (See appended table 5.2) | TEP. |
| 5.2.2.4 | Single pulse limits | No single pulse introduced | N/A |
| 5.2.2.5 | Limits for repetitive pulses | No repetitive pulses introduced | N/A |
| 5.2.2.6 | Ringing signals | No such ringing signals within the EUT | N/A |
| 5.2.2.7 | Audio signals | No audio signals used | N/A |
| 5.3 | Protection against electrical energy sources | | ďΡ |
| 5.3.1 | General Requirements for accessible parts to ordinary, instructed and skilled persons | See only 4.3 and 5.3 to 5.5 which applies to protection between the accessible parts and hazardous parts of other circuits. | TEKP VIII |
| 5.3.1 a) | Accessible ES1/ES2 derived from ES2/ES3 circuits | Mur Mur Mur Mill | Р |
| 5.3.1 b) | Skilled persons not unintentional contact ES3 bare conductors | UNITER WHITER WHITER WHITE | N/A |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | Only ES1 circuit can be accessed for this product | P |
| IEK INLTE | Accessibility to outdoor equipment bare parts | IN THE STEP WITER IN | N/A |
| 5.3.2.2 | Contact requirements | No openings allowing entry of a probe. No access with test probe to any ES3 circuit or parts. | P |
| ICLIFE M | Test with test probe from Annex V | TEL TEL LIE NITE | - |



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|------------|---|--|------------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 21/2 1 | | WILLE MILL MULL MULL | 7,11 |
| 5.3.2.2 a) | Air gap – electric strength test potential (V): | No such air gap | N/A |
| 5.3.2.2 b) | Air gap – distance (mm): | No such air gap | N/A |
| 5.3.2.3 | Compliance | et et jet jet | N/A |
| 5.3.2.4 | Terminals for connecting stripped wire | No stripped wire used. | N/A |
| 5.4 | Insulation materials and requirements | | P |
| 5.4.1.2 | Properties of insulating material | The choice and application have taken into account as specified in this Clause 5 and Annex T and natural rubber, hygroscopic materials or asbestos are not used as insulation. | PEK WILTEK MITEK |
| 5.4.1.3 | Material is non-hygroscopic | (See sub-clause 5.4.8) | B/L |
| 5.4.1.4 | Maximum operating temperature for insulating materials | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | F PIE |
| 5.4.1.5 | Pollution degrees: | PD2 considered | N/A |
| 5.4.1.5.2 | Test for pollution degree 1 environment and for an insulating compound | PD2 is applied. No insulating compound applied (however see 5.5.4). | N/A |
| 5.4.1.5.3 | Thermal cycling test | See above | N/A |
| 5.4.1.6 | Insulation in transformers with varying dimensions | No such transformer. | N/A |
| 5.4.1.7 | Insulation in circuits generating starting pulses | No such starting pulses. | N/A |
| 5.4.1.8 | Determination of working voltage: | (See appended table 5.4.1.8) | Р |
| 5.4.1.9 | Insulating surfaces | at the the the | P |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | of the tet tet | N/A |
| 5.4.1.10.2 | Vicat test | is the the in | N/A |
| 5.4.1.10.3 | Ball pressure test | (See appended table 5.4.1.10.3) | Р |
| 5.4.2 | Clearances | The highest value of 5.4.2.2 and 5.4.2.3 used. | Р |
| 5.4.2.1 | General requirements | TEX TEX LITER WITER | P |
| IEK BLIEK | Clearances in circuits connected to AC Mains, Alternative method | (See Annex X) | P P |
| 5.4.2.2 | Procedure 1 for determining clearance | Aug Aug Aug an | Р |
| ALLE A | Temporary overvoltage | Temporary overvoltage 2000Vpeak assumed. | _ |
| 5.4.2.3 | Procedure 2 for determining clearance | THE THE THE STATE | TP . |



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|-------------|---|--|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 21/2 2 | THE LIFE | WILL MULL MULL MULL | an. |
| 5.4.2.3.2.2 | a.c. mains transient voltage | Overvoltage category II, 2500V peak | _ |
| 5.4.2.3.2.3 | d.c. mains transient voltage: | No d.c. mains. | |
| 5.4.2.3.2.4 | External circuit transient voltage | No such transient voltage | _ |
| 5.4.2.3.2.5 | Transient voltage determined by measurement: | No need to conduct this test | _ |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test | and the tex step | N/A |
| 5.4.2.5 | Multiplication factors for clearances and test voltages | Up to 2000m, factor :1.0 | Р |
| 5.4.2.6 | Clearance measurement: | (See appended table 5.4.2 and 5.4.3) | Р |
| 5.4.3 | Creepage distances | (See appended table 5.4.2 and 5.4.3) | P |
| 5.4.3.1 | General | White Must make Must | Р |
| 5.4.3.3 | Material group | IIIb assumed | _ |
| 5.4.3.4 | Creepage distances measurement: | (See appended table 5.4.2 and 5.4.3) | P |
| 5.4.4 | Solid insulation | See below | Р |
| 5.4.4.1 | General requirements | LITE RELIEF MILE MAI | P |
| 5.4.4.2 | Minimum distance through insulation | (See appended table 5.4.4.2) | P |
| 5.4.4.3 | Insulating compound forming solid insulation | See below only. | N/A |
| 5.4.4.4 | Solid insulation in semiconductor devices | Approved optocoupler used. Requirements of G.12 met, see table 4.1.2 for listed component used | ILEK MAI |
| 5.4.4.5 | Insulating compound forming cemented joints | No such construction within the EUT | N/A |
| 5.4.4.6 | Thin sheet material | See below | Р |



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| IL WALL | me me me | EN IEC 62368-1 | ITEK OLIEK MOLIEK MOLI | MULT. MULT. |
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| Clause | Requirement + Test | in will all an | Result - Remark | Verdict |

| Clause | rtequilement + rest | Result - Remark | Verdict |
|-----------|---|---|-------------------|
| alle ! | on the state of the | mite with whi with | The. |
| 5.4.4.6.1 | General requirements | - At least two layers insulation tape used between transformer T1 primary winding and secondary winding are used for reinforced insulation and are not expected to be subject to handling or abrasion during ordinary or instructed person servicing. - At least two layers insulation tape used between transformer T1 core and secondary winding are used for reinforced insulation and are not expected to be subject to handling or abrasion during ordinary or instructed person servicing. | MALTER WALTER |
| 5.4.4.6.2 | Separable thin sheet material | Where two layers are provided as reinforced insulation any one layer passed the electric strength test for reinforced insulation | P WALTEK WA |
| at at | Number of layers (pcs) | 2 | P |
| 5.4.4.6.3 | Non-separable thin sheet material | No non-separable thin sheet | N/A |
| t Jet | Number of layers (pcs) | at at all all | N/A |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material | mure mure mure mure | N/A |
| 5.4.4.6.5 | Mandrel test | VALLE WALL MALL MALL A | N/A |
| 5.4.4.7 | Solid insulation in wound components | See G.5.3 and G.6.1 only. | TE P |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V) | (See appended Table 5.4.4.9) | P |
| ALTEK (| Alternative by electric strength test, tested voltage (V), K_R | THE TEXT TEXT | N/A |
| 5.4.5 | Antenna terminal insulation | No such antenna terminal used. | P |
| 5.4.5.1 | General | With Aurit Auti, May A | N/A |
| 5.4.5.2 | Voltage surge test | Surge test with 50 discharges at a maximum rate of 12/min from a 1 nF capacitor charged to 10kV performed. | FET PINES |
| 5.4.5.3 | Insulation resistance (M Ω) | Input to output: >100 MΩ | ∠B [⊱] |



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| Aug. | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | The Mulii Mr. M. | Result - Remark | Verdict |

| | Electric strength test: | (See appended table 5.4.9) | P |
|-------------|--|--|--------|
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard | No such insulation of internal wire as part of supplementary safeguard. | N/A |
| 5.4.7 | Tests for semiconductor components and for cemented joints | No tests necessary –see only 5.4.4.4. | N/A |
| 5.4.8 | Humidity conditioning | Mr. Mr. A. T. St | P |
| When w | Relative humidity (%), temperature (°C), duration (h) | 95%, 40°C, 120h | _ |
| 5.4.9 | Electric strength test | (See appended table 5.4.9) | V. D 2 |
| 5.4.9.1 | Test procedure for type test of solid insulation: | (See appended table 5.4.9) | P |
| 5.4.9.2 | Test procedure for routine test | E MUTTER MUTTER MUTE AND | Р |
| 5.4.10 | Safeguards against transient voltages from external circuits | No such external circuits | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | at at the the | N/A |
| 5.4.10.2 | Test methods | Will Mur My My | N/A |
| 5.4.10.2.1 | General | THE STEEL ST | N/A |
| 5.4.10.2.2 | Impulse test | _2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| 5.4.10.2.3 | Steady-state test: | Chile Will Mile Mail | N/A |
| 5.4.10.3 | Verification for insulation breakdown for impulse test: | TIFEK WIFEK MUTEK WATER | N/A |
| 5.4.11 | Separation between external circuits and earth | No such external circuit. | N/A |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | THE MILL WILL WALL | N/A |
| 5.4.11.2 | Requirements | THE WALL WALL WALL WA | N/A |
| MULIER. | SPDs bridge separation between external circuit and earth | UNLIER WHILER WHILER WHILE | N/A |
| TEK . | Rated operating voltage U _{op} (V) | at the set set | _ |
| 20, 20, | Nominal voltage U _{peak} (V) | ner mer mer me | _ |
| NLTE" NINLT | Max increase due to variation ΔU_{sp} | TEX LIEX SLITER BLITER S | _ |
| st st | Max increase due to ageing ΔU_{sa} | M M A SH | _ |
| 5.4.11.3 | Test method and compliance: | A WILL WILL MULL MUL | N/A |
| 5.4.12 | Insulating liquid | No such liquid | N/A |
| 5.4.12.1 | General requirements | MULL MULL MAY MILL | N/A |
| 5.4.12.2 | Electric strength of an insulating liquid: | at at let tex | N/A |



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| | The state of the second second | 1 24 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | T |
|------------|--|--|--------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| 5.4.12.3 | Compatibility of an insulating liquid: | mar in mr m | N/A |
| 5.4.12.4 | Container for insulating liquid: | ALTER WALTER WALTER | N/A |
| 5.5 | Components as safeguards | at the fifth | P |
| 5.5.1 | General | it with Mary min a | Р |
| 5.5.2 | Capacitors and RC units Approved Y type capacitors provided. | | P |
| 5.5.2.1 | General requirement | TEX TEX LIFE MIN | P |
| 5.5.2.2 | Safeguards against capacitor discharge after disconnection of a connector | AND THE STEEL STEEL | N/A |
| 5.5.3 | Transformers (See Annex G.5.3) | | Р |
| 5.5.4 | Optocouplers | EX OLITER MITER MALTER W | N/A |
| 5.5.5 | Relays | t of the | N/A |
| 5.5.6 | Resistors | Write Mill Mar Mr. | N/A |
| 5.5.7 | SPDs | et let litt liet | N/A |
| 5.5.8 | Insulation between the mains and an external circuit consisting of a coaxial cable | No such external circuits. | N/A |
| 5.5.9 | Safeguards for socket-outlets in outdoor equipment | a far an a | N/A |
| ER SINLIFE | RCD rated residual operating current (mA) | The state of | Ş — |
| 5.6 | Protective conductor | Mr. Mr. A. | N/A |
| 5.6.2 | Requirement for protective conductors | CLIEB MITE WALLE WALL | N/A |
| 5.6.2.1 | General requirements | Class II equipment | N/A |
| 5.6.2.2 | Colour of insulation | HILL MULL MULL MULL | N/A |
| 5.6.3 | Requirement for protective earthing conductors | et tet itet itet. | N/A |
| 4 24 | Protective earthing conductor size (mm²) | me me m | _ |
| MULLE | Protective earthing conductor serving as a reinforced safeguard | Whitek Whitek White Whi | N/A |
| White w | Protective earthing conductor serving as a double safeguard | UNITED WHITE WHITE | N/A |
| 5.6.4 | Requirements for protective bonding conductors | TEX SIEK WITER WITER | N/A |
| 5.6.4.1 | Protective bonding conductors | . All An An | N/A |
| MULL | Protective bonding conductor size (mm²) | IN MITER WALTER WALTER WI | _ |
| 5.6.4.2 | Protective current rating (A) | at the set of | N/A |
| 5.6.5 | Terminals for protective conductors | THE WILL WILL MINE | N/A |



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|----------------------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.6.5.1 | Terminal size for connecting protective earthing conductors (mm) | TEX SLIEX SLIEX MILES | N/A |
| ije ^k uni | Terminal size for connecting protective bonding conductors (mm) | TEX TIEX STIEX WITH | N/A |
| 5.6.5.2 | Corrosion | The things of | N/A |
| 5.6.6 | Resistance of the protective bonding system | MILE WALLE WALLE | N/A |
| 5.6.6.1 | Requirements | s at at A | N/A |
| 5.6.6.2 | Test Method | MULTER MULT MULT MULT | N/A |
| 5.6.6.3 | Resistance (Ω) or voltage drop | LET TEX TEX STEE | N/A |
| 5.6.7 | Reliable connection of a protective earthing conductor | et tet itet sitet " | N/A |
| 5.6.8 | Functional earthing | my my my | N/A |
| MALITY | Conductor size (mm²) | LIER WILE WILL WILL | N/A |
| At . | Class II with functional earthing marking | THE THE REST | N/A |
| anes a | Appliance inlet cl & cr (mm) | WILL MULLE MALL MALL | N/A |
| 5.7 | Prospective touch voltage, touch current and protective conductor current | | √ P |
| 5.7.2 | Measuring devices and networks | Mr. Mr. 1 | Р |
| 5.7.2.1 | Measurement of touch current | (See appended table 5.2) | P |
| 5.7.2.2 | Measurement of voltage | (See appended table 5.2) | Р |
| 5.7.3 | Equipment set-up, supply connections and earth connections | Clause 4, 5.3 and 5.4 of IEC 60990:1999 applied. | ₩P |
| 5.7.4 | Unearthed accessible parts | (See appended table 5.7.4) | P |
| 5.7.5 | Earthed accessible conductive parts | Class II equipment | N/A |
| 5.7.6 | Requirements when touch current exceeds ES2 limits | THE WALLE WHILE WHILE W | N/A |
| me | Protective conductor current (mA) | white white white was | N/A |
| CLER | Instructional Safeguard | at let let ite | N/A |
| 5.7.7 | Prospective touch voltage and touch current associated with external circuits | No external circuits. | N/A |
| 5.7.7.1 | Touch current from coaxial cables | Vill Muris Mur Murs | N/A |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables | EX MULTEX MULTER WALTER ON | N/A |
| 5.7.8 | Summation of touch currents from external circuits | No external circuits. | N/A |
| JEH. | a) Equipment connected to earthed external circuits, current (mA): | we we say | N/A |



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|------------|-----------------------|-----------------|------------------|---|
| 21/2 | 20, 20 | EN IEC 62368-1 | ite alie and all | Tr. Mr. M. |
| Clause | Requirement + Test | it whit we will | Result - Remark | Verdict |

| | b) Equipment connected to unearthed external circuits, current (mA) | the street writer white | N/A |
|-------------------|---|-------------------------|-----|
| 5.8 | Backfeed safeguard in battery backed up supplies | | N/A |
| Ser all | Mains terminal ES | No battery used | N/A |
| E ^{NL} S | Air gap (mm) | L of let let | N/A |

| 6 | ELECTRICALLY- CAUSED FIRE | | Ρ |
|---------|--|--|--------|
| 6.2 | Classification of PS and PIS | Mr. Mr. W. | Р |
| 6.2.2 | Power source circuit classifications: | (See appended table 6.2.2) | Р |
| 6.2.3 | Classification of potential ignition sources | All conductors are considered as PIS. | EF P |
| 6.2.3.1 | Arcing PIS | (See appended table 6.2.3.1) | Р |
| 6.2.3.2 | Resistive PIS | (See appended table 6.2.3.2) | 2/P |
| 6.3 | Safeguards against fire under normal operating and abnormal operating conditions | | MIL P. |
| 6.3.1 | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials | (See appended table B.1.5 and B.3) | P |
| MILL | Combustible materials outside fire enclosure: | THE WALL WALL MAL | N/A |
| 6.4 | Safeguards against fire under single fault condition | ons | Р |
| 6.4.1 | Safeguard method | Method by control of fire spread applied, Fire enclosure provided. | NIT P |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | let stret stret springs and | N/A |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | a steet street springer springer | N/A |
| 6.4.3.1 | Supplementary safeguards | The The Table | N/A |
| 6.4.3.2 | Single Fault Conditions | WILL MILL MALL MALL | N/A |
| TEN. | Special conditions for temperature limited by fuse | at the first | N/A |
| 6.4.4 | Control of fire spread in PS1 circuits | Vitte Muri Mur Mur a | Р |
| 6.4.5 | Control of fire spread in PS2 circuits | See 6.4.6 | Р |
| 6.4.5.2 | Supplementary safeguards | Safeguards checked as part of 6.4.6. | P |



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| TEL WALT | W11 225102141311001 | EN IEC 62368-1 | LIER NITER MALTER | NUTLE AUT | MULL |
|----------|---------------------|----------------|-------------------|-----------|---------|
| Clause | Requirement + Test | Write Mr. M. | Result - Remark | et e | Verdict |

| X | | | |
|-----------|--|--|------------|
| Mrs. | rate of the contract of the co | WITE WITE WALL WALL | an. |
| 6.4.6 | Control of fire spread in PS3 circuits | Compliance detailed as follows: - Printed board: rated min. V-1 - All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying to relevant IEC standard - Isolating transformer: complying with G.5.3 Fire enclosure rated V-0 used. | TEX WILLER |
| 6.4.7 | Separation of combustible materials from a PIS | Fire enclosure rated V-0 used. | N/A |
| 6.4.7.2 | Separation by distance | - let jet jiet nije | N/A |
| 6.4.7.3 | Separation by a fire barrier | No specific barrier provided. | N/A |
| 6.4.8 | Fire enclosures and fire barriers | Fire enclosure rated V-0 used. | W. B. |
| 6.4.8.2 | Fire enclosure and fire barrier material properties | | Р |
| 6.4.8.2.1 | Requirements for a fire barrier | No fire barrier used. | N/A |
| 6.4.8.2.2 | Requirements for a fire enclosure | Fire enclosure rated V-0 used. | P. |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | mer mer mer me | P |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | See below | Р |
| 6.4.8.3.2 | Fire barrier dimensions | No fire barrier used. | N/A |
| 6.4.8.3.3 | Top openings and properties | No openings. | N/A |
| Life WALL | Openings dimensions (mm) | TEX SLITER INLIER WHITE OU | N/A |
| 6.4.8.3.4 | Bottom openings and properties | No openings. | N/A |
| Mer | Openings dimensions (mm) | Marie Marie Mari | N/A |
| JEH . | Flammability tests for the bottom of a fire enclosure | at let let liet | N/A |
| 211, 21 | Instructional Safeguard: | Murit Mur Mur Mur | N/A |
| 6.4.8.3.5 | Side openings and properties | No openings. | N/A |
| st st | Openings dimensions (mm): | 10, 10, 10 | N/A |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c) | No enclosure can be opened by an ordinary person | N/A |
| 6.4.8.4 | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating: | Fire enclosure rated V-0 used. | P |
| 6.4.9 | Flammability of insulating liquid | THE LIFE MITE MITE | N/A |



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|--------|--------------------|----------------|-----------------|---------|
| Clause | Requirement + Test | avera me in | Result - Remark | Verdict |

| 6.5 | Internal and external wiring | | N/A |
|-------|---|-----------------------|-----|
| 6.5.1 | General requirements | PLIES WILLE WILL WILL | N/A |
| 6.5.2 | Requirements for interconnection to building wiring | No such wire used | N/A |
| 6.5.3 | Internal wiring size (mm²) for socket-outlets: | L At At At A | N/A |
| 6.6 | Safeguards against fire due to the connection to | additional equipment | Р |

| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANCES Reduction of exposure to hazardous substances | |
|---|--|-------|
| 7.2 | | |
| 7.3 | Ozone exposure | N/A |
| 7.4 | Use of personal safeguards or personal protective equipment (PPE) | |
| <u>, , , , , , , , , , , , , , , , , , , </u> | Personal safeguards and instructions | |
| 7.5 | Use of instructional safeguards and instructions | N/A |
| JER | Instructional safeguard (ISO 7010) | 3EK — |
| 7.6 | Batteries and their protection circuits | N/A |

| 8 | MECHANICALLY-CAUSED INJURY | | EK P |
|---------|---|---|------|
| 8.2 | Mechanical energy source classifications | Mr. Mr. M. M. | Р |
| 8.3 | Safeguards against mechanical energy sources | - ITEK ALTEK MITER AMITE | P |
| 8.4 | Safeguards against parts with sharp edges and c | orners | Р |
| 8.4.1 | Safeguards | LIER WALTER WALLE WALLE | N/A |
| 7E# | Instructional Safeguard: | a at at 1th | N/A |
| 8.4.2 | Sharp edges or corners | The sharp edges and corners of the equipment are considered as MS1. | P |
| 8.5 | Safeguards against moving parts | | N/A |
| 8.5.1 | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts | No moving parts. | N/A |
| ilik (k | MS2 or MS3 part required to be accessible for the function of the equipment | See above. | N/A |
| - Mur | Moving MS3 parts only accessible to skilled person | THE WALL WHITE WALL WAS | N/A |
| 8.5.2 | Instructional safeguard | a state of | N/A |
| 8.5.4 | Special categories of equipment containing moving parts | men men men me | N/A |
| 8.5.4.1 | General | ALTE WALL WALL WALL | N/A |



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| 24, | EN IEC 62368-1 | the way were and | 70, |
|-------------|---|--|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 8.5.4.2 | Equipment containing work cells with MS3 parts | Murit mir Mer Mer | N/A |
| 8.5.4.2.1 | Protection of persons in the work cell | THE STATE WITH MITTER | N/A |
| 8.5.4.2.2 | Access protection override | U Mr. M. M. | N/A |
| 8.5.4.2.2.1 | Override system | A MI WILL WILL | N/A |
| 8.5.4.2.2.1 | Visual indicator | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | J 1 |
| $-\eta_{-}$ | | MITER WITE WALL WALL | N/A |
| 8.5.4.2.3 | Emergency stop system Maximum stopping distance from the point of activation (m) | antifet white white while | N/A N/A |
| INCTES WINC | Space between end point and nearest fixed mechanical part (mm) | LIEK WHITEK WHITEK WHITEK | N/A |
| 8.5.4.2.4 | Endurance requirements | at the the tiet of | N/A |
| t cler | Mechanical system subjected to 100 000 cycles of operation | THE THE THE | N/A |
| 20, 1 | - Mechanical function check and visual inspection | MULLI MULL MULL MULL | N/A |
| WITEL OW | - Cable assembly | TEX TEX STEEL STEEL | N/A |
| 8.5.4.3 | Equipment having electromechanical device for destruction of media | or win to the lifet | N/A |
| 8.5.4.3.1 | Equipment safeguards | The sur in | N/A |
| 8.5.4.3.2 | Instructional safeguards against moving parts | e the white wife whi | N/A |
| 8.5.4.3.3 | Disconnection from the supply | The The St. Ch | N/A |
| 8.5.4.3.4 | Cut type and test force (N) | WILL WILL MILL MALL | N/A |
| 8.5.4.3.5 | Compliance | a state of the | N/A |
| 8.5.5 | High pressure lamps | No high pressure lamps used. | N/A |
| TEK MITE | Explosion test: | et tet tet atet attet o | N/A |
| 8.5.5.3 | Glass particles dimensions (mm) | Mr. M. M. | N/A |
| 8.6 | Stability of equipment | A STER OUTER MATERIALI | N/A |
| 8.6.1 | General | MS1: Mass of the unit | N/A |
| Aller All | Instructional safeguard | WILLE MILLE MILLE MILL | N/A |
| 8.6.2 | Static stability | at at all all | N/A |
| 8.6.2.2 | Static stability test: | THE MULL MILL MILL OF | N/A |
| 8.6.2.3 | Downward force test | et jet liet wifet wi | N/A |
| 8.6.3 | Relocation stability | Mr. Mr. All all | N/A |
| Mr. A | Wheels diameter (mm): | alter wife write write | _ |
| z.t- | Tilt test | 20, 20, 21 | N/A |



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|----------|--|--|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Mrs. | AND AND THE LIFE LIFE | William State Albert And | 1/1 |
| 8.6.4 | Glass slide test | | N/A |
| 8.6.5 | Horizontal force test | Will mur mur mur | N/A |
| 8.7 | Equipment mounted to wall, ceiling or other struc | cture | N/A |
| 8.7.1 | Mount means type | No wall or ceiling | N/A |
| 8.7.2 | Test methods | et liet alter miter in | N/A |
| . Jet | Test 1, additional downwards force (N) | An An An | N/A |
| | Test 2, number of attachment points and test force (N) | MILER MILIE MILLE MILL | N/A |
| ing an | Test 3 Nominal diameter (mm) and applied torque (Nm) | WITEL WALTER WALTE WALTE | N/A |
| 8.8 | Handles strength | TEX OLIER WILLIAM | N/A |
| 8.8.1 | General | No handles | N/A |
| 8.8.2 | Handle strength test | WITE WALL WILL OW | N/A |
| TEX. | Number of handles | at at let it | <u> </u> |
| 21/2 21 | Force applied (N) | mr. mr. m. | |
| 8.9 | Wheels or casters attachment requirements | | N/A |
| 8.9.2 | Pull test | No such parts | N/A |
| 8.10 | Carts, stands and similar carriers | TE WITE WALL WALL IN | N/A |
| 8.10.1 | General | No carts, stands or similar carriers | N/A |
| 8.10.2 | Marking and instructions | In the state of | N/A |
| 8.10.3 | Cart, stand or carrier loading test | LIFE WALTE WALTE WALTE | N/A |
| TER ST | Loading force applied (N) | a at let let | N/A |
| 8.10.4 | Cart, stand or carrier impact test | in min me me | N/A |
| 8.10.5 | Mechanical stability | E- TEX STEX STEX ON | N/A |
| 7 | Force applied (N) | Mr. Mr. M. | <u></u> t |
| 8.10.6 | Thermoplastic temperature stability | LIER OLIE MLIER MAIL | N/A |
| 8.11 | Mounting means for slide-rail mounted equipmer | nt (SRME) | N/A |
| 8.11.1 | General | No such parts | N/A |
| 8.11.2 | Requirements for slide rails | at the set set | N/A |
| 7,11 | Instructional Safeguard: | me me m | N/A |
| 8.11.3 | Mechanical strength test | t tet tret stret mi | N/A |
| 8.11.3.1 | Downward force test, force (N) applied: | 241 24 24 18 18 18 18 18 18 18 18 18 18 18 18 18 | N/A |
| 8.11.3.2 | Lateral push force test | TET TET BUTE MUTE | N/A |



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|----------|--|------------------|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Alex ! | No. 10 10 10 10 10 10 10 10 10 10 10 10 10 | MITE INLIE WALL | The Marie |
| 8.11.3.3 | Integrity of slide rail end stops | 1111 111 | N/A |
| 8.11.4 | Compliance | WILL MULL MILL M | N/A |
| 8.12 | Telescoping or rod antennas | at at 1th o | N/A |
| | Button/ball diameter (mm) | No such parts | |

| 9 | THERMAL BURN INJURY | | P |
|-------|--|---|------|
| 9.2 | Thermal energy source classifications | | √ P |
| 9.3 | Touch temperature limits | at the little | P |
| 9.3.1 | Touch temperatures of accessible parts: | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | Р |
| 9.3.2 | Test method and compliance | See B.1.6 & B.2.3 | Р |
| 9.4 | Safeguards against thermal energy sources | of left test treet outs | Р |
| 9.5 | Requirements for safeguards | | Р |
| 9.5.1 | Equipment safeguard | Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions. | NI P |
| 9.5.2 | Instructional safeguard: | Instructional safeguard is not required. | N/A |
| 9.6 | Requirements for wireless power transmitters | OLITER WITE WALTE WALTE | N/A |
| 9.6.1 | General | No wireless power transmitters | N/A |
| 9.6.2 | Specification of the foreign objects | WILL MILL MUST MUST " | N/A |
| 9.6.3 | Test method and compliance: | at at let let | N/A |

| 10 | | |
|---------|------------------------------------|----------|
| 10.2 | | |
| 10.2.1 | General classification | N/A |
| , et | Lasers | |
| ing the | Lamps and lamp systems | V. 7 - |
| TEX NIT | Image projectors | SER IN - |
| | X-Ray | |
| WILL | Personal music player | white — |
| 10.3 | Safeguards against laser radiation | N/A |



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| Clause | Requirement + Test | The Music Marine | Result - Remark | Verdict |

| | The standard(s) equipment containing laser(s) comply | No laser radiation | N/A |
|----------|--|---------------------------|-----|
| 10.4 | Safeguards against optical radiation from lamps and lamp systems (including LED types) | | N/A |
| 10.4.1 | General requirements | The second second | N/A |
| Me | Instructional safeguard provided for accessible radiation level needs to exceed | F WALTE WALTE WALT WAL | N/A |
| Mer. 1 | Risk group marking and location | OLIER MILE MILE WALLE | N/A |
| TEK . | Information for safe operation and installation | A A A A | N/A |
| 10.4.2 | Requirements for enclosures | WILL MULL MULL MULL ! | N/A |
| TEK NIFE | UV radiation exposure | of the the time is | N/A |
| 10.4.3 | Instructional safeguard: | Auto Auto Auto Auto | N/A |
| 10.5 | Safeguards against X-radiation | EX LIEX NITER WITE WITE | N/A |
| 10.5.1 | Requirements | No X-radiation | N/A |
| Mer. M | Instructional safeguard for skilled persons: | Wite Will Mile Marie | _ |
| 10.5.3 | Maximum radiation (pA/kg) | The state of | |
| 10.6 | Safeguards against acoustic energy sources | The sure sure su | N/A |
| 10.6.1 | General | No such equipment | N/A |
| 10.6.2 | Classification | Mr. Ar. A | N/A |
| MULT. | Acoustic output L _{Aeq,T} , dB(A) | ALTER MITER WALTER WALTER | N/A |
| Et. | Unweighted RMS output voltage (mV) | the state of the | N/A |
| no in | Digital output signal (dBFS) | " LIFT WALL WALL WALL ! | N/A |
| 10.6.3 | Requirements for dose-based systems | at let let liet o | N/A |
| 10.6.3.1 | General requirements | i mi mi m | N/A |
| 10.6.3.2 | Dose-based warning and automatic decrease | E- LIER SLIER WLIE WILL | N/A |
| 10.6.3.3 | Exposure-based warning and requirements | The the state of | N/A |
| 21/2 21 | 30 s integrated exposure level (MEL30) | OLIE WILL WALL WALL | N/A |
| JEK V | Warning for MEL ≥ 100 dB(A) | at at at let | N/A |
| 10.6.4 | Measurement methods | aris maris mary mary | N/A |
| 10.6.5 | Protection of persons | CA THE LIEF WIFE ON | N/A |
| | Instructional safeguards: | mr. mr. m. on | N/A |
| 10.6.6 | Requirements for listening devices (headphones, earphones, etc.) | White white white white | N/A |
| 10.6.6.1 | Corded listening devices with analogue input | LET TEX ITES SITE | N/A |



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| in with | EN IEC 62368-1 | LIER WILE WILLE | THE MUTTER MUTE |
|---------|-------------------------------------|-----------------|-----------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| nh. | Listening device input voltage (mV) | HALTE WILL WILL | N/A |

| , Et | Listening device input voltage (mV) | N/A |
|----------|--|----------------|
| 10.6.6.2 | Corded listening devices with digital input | ment and M/A " |
| TEX SI | Max. acoustic output L _{Aeq,T} , dB(A) | A N/A |
| 10.6.6.3 | Cordless listening devices | N/A |
| EL NITE | Max. acoustic output L _{Aeq,T} , dB(A): | N/A |

| Bunti | NORMAL OPERATING CONDITION TESTS, ABNOCONDITION TESTS AND SINGLE FAULT CONDITION | | un P |
|---------------------------------------|--|---|--|
| B.1 | General | | Р |
| B.1.5 | Temperature measurement conditions | (See appended table B.1.5) | P |
| B.2 | Normal operating conditions | TE MILL WILL WALL ON | Р |
| B.2.1 | General requirements: | (See Test Item Particulars and appended test tables) | P |
| WALTEK. | Audio Amplifiers and equipment with audio amplifiers: | Not such equipment. | N/A |
| B.2.3 | Supply voltage and tolerances | Rated voltage ± 10 % | _S ©P |
| B.2.5 | Input test: | (See appended table B.2.5) | Р |
| B.3 | Simulated abnormal operating conditions | E. The Life Aller Mi | Р |
| B.3.1 | General Att The Mark Mark | (See appended table B.3) | Р |
| B.3.2 | Covering of ventilation openings | No openings | N/A |
| , et | Instructional safeguard: | The same state | N/A |
| B.3.3 | DC mains polarity test | Not supplied by D.C. mains | N/A |
| B.3.4 | Setting of voltage selector | No voltage selector used. | N/A |
| B.3.5 | Maximum load at output terminals | (See appended table B.3) | Р |
| B.3.6 | Reverse battery polarity | No such battery | N/A |
| B.3.7 | Audio amplifier abnormal operating conditions | Not such equipment. | N/A |
| B.3.8 TEX WHITE WHITE WHITE WHITE | Safeguards functional during and after abnormal operating conditions | During an abnormal operating condition that does not lead to a single fault condition, all safeguards are remained effective. After restoration of normal operating conditions, all safeguards are compliant with applicable requirements. For those abnormal operating conditions lead to single fault conditions, see Clause B.4. | ON P LITER OF LANDING ONLINE ONLIN ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE |



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| B.4 | Simulated single fault conditions | The state of the | Р |
|---------|--|---|------------|
| B.4.1 | General | NITE WALL WALL WALL WALL | Р |
| B.4.2 | Temperature controlling device | No such device used. | N/A |
| B.4.3 | Blocked motor test | No motors used. | N/A |
| B.4.4 | Functional insulation | See below. | Р |
| B.4.4.1 | Short circuit of clearances for functional insulation | (See appended table B.4) | Р |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | (See appended table B.4) | √mP Fit |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards | No coated printed boards used. | N/A |
| B.4.5 | Short-circuit and interruption of electrodes in tubes and semiconductors | (See appended table B.4) | P |
| B.4.6 | Short circuit or disconnection of passive components | (See appended table B.4) | , P |
| B.4.7 | Continuous operation of components | The EUT is continuous operating type and no such components intended for short time operation or intermittent operation | N/A |
| B.4.8 | Compliance during and after single fault conditions | (See appended table B.4) | Р |
| B.4.9 | Battery charging and discharging under single fault conditions | No such battery | N/A |
| C U | UV RADIATION | LITER MITER MALTER MALTER | N/A |
| C.1- | Protection of materials in equipment from UV rac | diation | N/A |
| C.1.2 | Requirements | No such UV generated from the equipment. | N/A |
| C.1.3 | Test method | Write Mari Mari Mari | N/A |
| C.2 | UV light conditioning test | at the the state | N/A |
| C.2.1 | Test apparatus: | MUTE MUTE AND AND | N/A |
| C.2.2 | Mounting of test samples | TEX LIEX SLITER WITER | N/A |
| C.2.3 | Carbon-arc light-exposure test | 211 20 20 | N/A |
| C.2.4 | Xenon-arc light-exposure test | ex write white white our | N/A |
| D det | TEST GENERATORS | | Р |
| D.1 | Impulse test generators | | N/A |
| D.2 | Antenna interface test generator | at let let let | P |



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| D.3 | Electronic pulse generator | The state of the | N/A |
|-----------|--|--|------------------|
| ELOS OF | TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS | | N/A |
| E.1 | Electrical energy source classification for audio signals | | |
| 7/1 | Maximum non-clipped output power (W) | (See appended table B.2.5) | <u> </u> |
| et antie | Rated load impedance (Ω) | (See appended table 4.1.2) | - 10°C |
| . st | Open-circuit output voltage (V) | (See appended table B.2.5) | |
| June 1 | Instructional safeguard | Provided in the manual | Migh |
| E.2 | Audio amplifier normal operating conditions | at at all all | N/A |
| 12 24 | Audio signal source type | (See appended table B.2.5) | |
| TEX SINLY | Audio output power (W) | (See appended table B.2.5) | . <u> </u> |
| t ist | Audio output voltage (V) | (See appended table B.2.5) | t – 1 |
| Miles | Rated load impedance (Ω) | (See appended table 4.1.2) | 2/4 |
| UNLIEK V | Requirements for temperature measurement | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | N/A |
| E.3 | Audio amplifier abnormal operating conditions | (See appended table B.3) | N/A |
| F (I | EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS | | P |
| F.1 | General The Street Market Mark | | |
| NITER | Language | English | NATE OF |
| F.2 | Letter symbols and graphical symbols | THE THE THE | Р |
| F.2.1 | Letter symbols according to IEC60027-1 | Letter symbols for quantities and units are complied with IEC 60027-1. | INEX . |
| F.2.2 | Graphic symbols according to IEC, ISO or manufacturer specific | Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010. | P P WALT |
| F.3 | Equipment markings | INLIER WALTE WALT WALT | n _U P |
| F.3.1 | Equipment marking locations | The required marking is located on the enclosure of the equipment and is easily visible. | ALTEP V |
| F.3.2 | Equipment identification markings | See copy of marking plate. | Р |
| F.3.2.1 | Manufacturer identification | See copy of marking plate | Р |
| F.3.2.2 | Model identification | See copy of marking plate | Р |
| F.3.3 | Equipment rating markings | See the following details. | Р |



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| , we | EN IEC 62368-1 | TER WILL WALL MAN | an |
|-----------|---|---|-------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Mrs. 1 | M M THE LIFE | white mail war, war | a _{th} . |
| F.3.3.1 | Equipment with direct connection to mains | The equipment is direct connected to AC mains, see F.3.3.3 to F.3.3.6. | MULT V |
| F.3.3.2 | Equipment without direct connection to mains | TEX STEE STEEL STEEL STEEL STEEL | N/A |
| F.3.3.3 | Nature of the supply voltage | See copy of marking plate | Р |
| F.3.3.4 | Rated voltage | See copy of marking plate | Р |
| F.3.3.5 | Rated frequency | See copy of marking plate | P |
| F.3.3.6 | Rated current or rated power | See copy of marking plate | , P |
| F.3.3.7 | Equipment with multiple supply connections | Only one mains supply connection provided. | N/A |
| F.3.4 | Voltage setting device | No voltage setting device. | N/A |
| F.3.5 | Terminals and operating devices | See below. | Р |
| F.3.5.1 | Mains appliance outlet and socket-outlet markings No outlet used. | | N/A |
| F.3.5.2 | Switch position identification marking | No switch used. | N/A |
| F.3.5.3 | Replacement fuse identification and rating markings | Current fuse F1 used, marking provided on PCB adjacent to them: F1: T3.15A/250Vac, However, the fuse is not intended to be replaceable. | EK WALL |
| MALTE | Instructional safeguards for neutral fuse | TEX SITEX MITER MITE | N/A |
| F.3.5.4 | Replacement battery identification marking: | No such battery on the equipment. See sub-clause F.5 | N/A |
| F.3.5.5 | Neutral conductor terminal | let test trest street in | N/A |
| F.3.5.6 | Terminal marking location | in in in | Р |
| F.3.6 | Equipment markings related to equipment classification | See below. | Р |
| F.3.6.1 | Class I equipment | THE LIFE MITTER MATTER | N/A |
| F.3.6.1.1 | Protective earthing conductor terminal | in my the | N/A |
| F.3.6.1.2 | Protective bonding conductor terminals | LIER RUEL WHILE WHILE V | N/A |
| F.3.6.2 | Equipment class marking: | Et Mitet whitet wh | EX P |
| F.3.6.3 | Functional earthing terminal marking | at at at a | N/A |
| F.3.7 | Equipment IP rating marking | IPX0 | N/A |
| F.3.8 | External power supply output marking: | See copy of marking plate | P |



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|----------------|--|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| - m | an a | | 411- | |
| F.3.9 | Durability, legibility and permanence of marking | Marking is considered to be legible and easily discernible. See also the following details. | MULTIPL V | |
| F.3.10 Mil | Test for permanence of markings | The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible. | LILY PUNCTER OF THE PURCHER OF THE P | |
| F.4 | Instructions | | | |
| it. | a) Information prior to installation and initial use | Provided in the manual. | P | |
| Mury M | b) Equipment for use in locations where children not likely to be present | Not such equipment | N/A | |
| NITE WAL | c) Instructions for installation and interconnection | Not such equipment | N/A | |
| iek anliek | d) Equipment intended for use only in restricted access area | Not such equipment | N/A | |
| L >+ | e) Equipment intended to be fastened in place | Not such equipment | N/A | |
| WILL . | f) Instructions for audio equipment terminals | No such terminals provided. | N/A | |
| alt. | g) Protective earthing used as a safeguard | Class II equipment | N/A | |
| mr m | h) Protective conductor current exceeding ES2 limits | Class II equipment | N/A | |
| The MULT | i) Graphic symbols used on equipment | See user manual | B _{1/2} | |
| EK WALTER | j) Permanently connected equipment not provided with all-pole mains switch | Not permanently connected equipment. | N/A | |
| MATER | k) Replaceable components or modules providing safeguard function | No such markings. | N/A | |
| , t | Equipment containing insulating liquid | No such liquid. | N/A | |
| Will Mu | m) Installation instructions for outdoor equipment | Not such equipment | N/A | |
| F.5 | Instructional safeguards | | N/A | |
| G w | COMPONENTS | | | |
| G.1 | Switches | - it let let let | N/A | |
| G.1.1 | General | No switches | N/A | |
| G.1.2 | Ratings, endurance, spacing, maximum load | et let let liet | N/A | |



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| | EN IEC 62368-1 | | |
|------------|--|--|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Me | M. W. Tek Steel | WHILE MULL MULL MULL | The same |
| G.1.3 | Test method and compliance | the state of the s | N/A |
| G.2 | Relays | WILL MULL MUT. AND . | N/A |
| G.2.1 | Requirements | No relays | N/A |
| G.2.2 | Overload test | y, mr. m. m. w. | N/A |
| G.2.3 | Relay controlling connectors supplying power to other equipment | Whitek whitek whitek whi | N/A |
| G.2.4 | Test method and compliance | TER LIER RUTER MUTER | N/A |
| G.3 | Protective devices | m m the | Р |
| G.3.1 | Thermal cut-offs | No thermal cut-offs | N/A |
| ITEK WALTE | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | et outet mutet mulet un | N/A |
| y walter | Thermal cut-outs tested as part of the equipment as indicated in c) | LIET WIFE WIFE MILE | N/A |
| G.3.1.2 | Test method and compliance | The state of the s | N/A |
| G.3.2 | Thermal links | No thermal-links | N/A |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics | EL JULIER WILLER | N/A |
| et de | b) Thermal links tested as part of the equipment | the site of | N/A |
| G.3.2.2 | Test method and compliance | MULL MULL MULL MILL | N/A |
| G.3.3 | PTC thermistors | No PTC thermistor provided as safeguard within the equipment. | N/A |
| G.3.4 | Overcurrent protection devices | WILL MULL MULL MULL | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to G.3.4 | Approved fusing resistors used as over current protection device in power supply boards. See appended table 4.1.2 for details. | TEP PONT |
| G.3.5.1 | Non-resettable devices suitably rated and marking provided | The test is carried out three times. No failure | NIN P |
| G.3.5.2 | Single faults conditions | TEX ITEX LITER NUTER | N/A |
| G.4 | Connectors | - Mr. 20, 20, 20, | N/A |
| G.4.1 | Spacings | ek altek miter uniter uni | N/A |
| G.4.2 | Mains connector configuration | The ship of | N/A |
| G.4.3 | Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely | White Mulies Mulies Military | N/A |
| G.5 | Wound components | THE STATE WITE WITE. | Р |



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| . The | EN IEC 62368-1 | fler write while whi wh | 21/2 |
|-----------|--|--|--------------------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Mr. | N N THE STEEL | WITE WIT WALL WALL | The. |
| G.5.1 | Wire insulation in wound components | Approved triple insulated wires used for secondary winding of transformer | unite P |
| G.5.1.2 | Protection against mechanical stress | Separated by tubes, and insulating tapes between windings. | LI P _U |
| G.5.2 | Endurance test | MUTE MUTE AND AND | N/A |
| G.5.2.1 | General test requirements | THE THE LITTER WITE | N/A |
| G.5.2.2 | Heat run test | Mr. M. M. M. | N/A |
| WILL AND | Test time (days per cycle) | LIER MITER MITER WALTER | 11-11-11 |
| LET LE | Test temperature (°C) | | CENT C |
| G.5.2.3 | Wound components supplied from the mains | Marie Marie Marie An | N/A |
| G.5.2.4 | No insulation breakdown | the text text text with | N/A |
| G.5.3 | Transformers | Mus Me Me And An | Р |
| G.5.3.1 | Compliance method: | The transformer meets the requirements given in G.5.3.2 and G.5.3.3. | UTEK . |
| 24 | Position: | T1 , who was | Р |
| Et MITE | Method of protection: | See G.5.3.2 and G.5.3.3. | P |
| G.5.3.2 | Insulation of the substitute o | Primary windings and secondary windings (triple insulated wires used) are separated by Reinforced insulation (The core is considered as primary part as it is not isolated from Primary) | PER VALTER VALTER VALTER |
| .L .H | Protection from displacement of windings | By bobbin and insulating tape | * - × |
| G.5.3.3 | Transformer overload tests | (See appended table B.3) | P |
| G.5.3.3.1 | Test conditions | Tested in the complete equipment as an SMPS. | MALTER |
| G.5.3.3.2 | Winding temperatures | (See appended tables B.3&B.4) | NITEP W |
| G.5.3.3.3 | Winding temperatures - alternative test method | Alternative test method was not considered. | N/A |
| G.5.3.4 | Transformers using FIW | No FIW | N/A |
| G.5.3.4.1 | General | WITE WILL MILE MILE | N/A |
| J. | FIW wire nominal diameter | The state of | , L. C. |



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| | EN IEC 62368-1 | | |
|-----------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Mr. | W. W. J. J. St. The Life | e with white white | an. |
| G.5.3.4.2 | Transformers with basic insulation only | the second second | N/A |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation | WILL MULL MULL MULL | N/A |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core | Will while while while w | N/A |
| G.5.3.4.5 | Thermal cycling test and compliance | F. Mile White White White | N/A |
| G.5.3.4.6 | Partial discharge test | a at at all | N/A |
| G.5.3.4.7 | Routine test | MULL MULL MULL MULL | N/A |
| G.5.4 | Motors | No motors | N/A |
| G.5.4.1 | General requirements | Mar My My And | N/A |
| G.5.4.2 | Motor overload test conditions | TEX SLIEN WILL MILL MY | N/A |
| G.5.4.3 | Running overload test | 70 St 24 2 | N/A |
| G.5.4.4.2 | Locked-rotor overload test | antite wate water was | N/A |
| TEN. | Test duration (days) | at let let let | C.E. |
| G.5.4.5 | Running overload test for DC motors | with my my | N/A |
| G.5.4.5.2 | Tested in the unit | att atter atter . | N/A |
| G.5.4.5.3 | Alternative method | 1 14 24 2 2 | N/A |
| G.5.4.6 | Locked-rotor overload test for DC motors | I ALTE MITTER MALE MAN | N/A |
| G.5.4.6.2 | Tested in the unit | A A A A | N/A |
| 145, 1 | Maximum Temperature | White Mutil Man Man | N/A |
| G.5.4.6.3 | Alternative method | at the tex title | N/A |
| G.5.4.7 | Motors with capacitors | a vice And in Any | N/A |
| G.5.4.8 | Three-phase motors | LER LIER OLIER WITH M | N/A |
| G.5.4.9 | Series motors | | N/A |
| Miles | Operating voltage | E NITE WALL WALL WALL | The state of the s |
| G.6 | Wire Insulation | A A A A | Р |
| G.6.1 | General White Whit | Triple insulated wire used in T1 secondary windings used as reinforced safeguard in the isolating transformer that has separately complied with Annex J. | MATER WAL |
| G.6.2 | Enamelled winding wire insulation | Solvent-based enamel winding is not considered basic insulation. | N/A |



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| report No. | . W11 22D 102141911001 | 1 age 32 01 04 | <u> </u> | <u> </u> |
|------------|------------------------|-----------------|-----------------|------------|
| The Miles | | EN IEC 62368-1 | | ir murrant |
| Clause | Requirement + Test | it with the way | Result - Remark | Verdict |

| G.7 | Mains supply cords | | N/A |
|-----------|---|--|-----------|
| G.7.1 | General requirements | PLIES WHITE WHITE WE | N/A |
| TEX SIT | Type | at at 1st 5 | EK LIEK |
| G.7.2 | Cross sectional area (mm² or AWG) | in my my | N/A |
| G.7.3 | Cord anchorages and strain relief for non- detachable power supply cords | Muley Whitek White | N/A |
| G.7.3.2 | Cord strain relief | TEL LIEK NIEK | N/A |
| G.7.3.2.1 | Requirements | Mr. Mr. Mr. | N/A |
| Vicin and | Strain relief test force (N) | LIER NLIER WALTER WAL | N/A |
| G.7.3.2.2 | Strain relief mechanism failure | | N/A |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm): | THE WALL WALL WALL | N/A |
| G.7.3.2.4 | Strain relief and cord anchorage material | e at tet stet | N/A |
| G.7.4 | Cord Entry | mer mer me | N/A |
| G.7.5 | Non-detachable cord bend protection | THE THE NUTER OF | N/A |
| G.7.5.1 | Requirements | 11. 21. 2 | N/A |
| G.7.5.2 | Test method and compliance | White mil | N/A |
| EX WALTER | Overall diameter or minor overall dimension, <i>D</i> (mm) | CLIL MILIT MILIE | MUTER MUT |
| TEX | Radius of curvature after test (mm) | A A A | All Je |
| G.7.6 | Supply wiring space | White Mile Mult | N/A |
| G.7.6.1 | General requirements | et let let | N/A |
| G.7.6.2 | Stranded wire | Vr. Mr. My 100 | N/A |
| G.7.6.2.1 | Requirements | JEK LIFE KLIFF MIT | N/A |
| G.7.6.2.2 | Test with 8 mm strand | 711 - 21 - 27 - 27 - 27 - 27 - 27 - 27 - | N/A |
| G.8 | Varistors | ANTIE WALLE WALLE | 1/2 1/P |
| G.8.1 | General requirements | No varistors used | N/A |
| G.8.2 | Safeguards against fire | MULL MULL MULL A | N/A |
| G.8.2.1 | General | TEX TEX STEEL AND | N/A |
| G.8.2.2 | Varistor overload test | 1. Mr. 211, 211, | N/A |
| G.8.2.3 | Temporary overvoltage test | EX OLIER WITER WALTE | N/A |
| G.9 | Integrated circuit (IC) current limiters | | N/A |
| G.9.1 | Requirements | No such IC | N/A |
| | IC limiter output current (max. 5A) | A A A | TEN JES |



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| Verdict |
|---------|
| |

| "ALCO | WIT WIN I'M IN I LET THE | LITTER NITTER WILL MINIS | 211. |
|-----------|---|---|---------------------|
| ,et | Manufacturers' defined drift | 30 3 x x 11 11 | 1 |
| G.9.2 | Test Program | NITE WALLE WALLE WALL | N/A |
| G.9.3 | Compliance | at the state of | N/A |
| G.10 | Resistors | the me we are | N/A |
| G.10.1 | General | The bleeder resistors used after X - capacitor, not relied upon as safeguard, no test necessary. See 5.5.6. | N/A |
| G.10.2 | Conditioning | a at at at | N/A |
| G.10.3 | Resistor test | Arite Marie Mar Mar A | N/A |
| G.10.4 | Voltage surge test | at tet tet stet stet w | N/A |
| G.10.5 | Impulse test | Mr. Mr. Mr. | N/A |
| G.10.6 | Overload test | I LIER WIFE WITE WILL | N/A |
| G.11 | Capacitors and RC units | THE THE RESERVE THE PARTY OF | P |
| G.11.1 | General requirements | Y1-capacitor used as Reinforced safeguard both complied with IEC/EN 60384- 14. | MA P |
| G.11.2 | Conditioning of capacitors and RC units | (See appended table 4.1.2) | Р |
| G.11.3 | Rules for selecting capacitors | The selection followed with tables G.9 and G.12. Y1 capacitor bridging Reinforced insulation with rated voltage at least 250V tested with impulse 8kV peak and 4kVrms | P WALTE MITER |
| G.12 | Optocouplers | LIER ALTER MUTER WATER AND | N/A |
| EK WALTER | Optocouplers comply with IEC 60747-5-5 with specifics | e strek mirek mirek mirek | N/A |
| | Type test voltage V _{ini,a} | The The State of | |
| 10/20 1 | Routine test voltage, V _{ini, b} | WILL MULTER WALL MALE | an_ |
| G.13 | Printed boards | at let tet tet | ∭P |
| G.13.1 | General requirements | See the following details. | Р |
| G.13.2 | Uncoated printed boards | The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements | Pr |



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| 24 | EN IEC 62368-1 | it was and was all | 20, |
|----------|--|---|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.13.3 | Coated printed boards | No coated printed board or multilayer board applied for within the equipment. | N/A |
| G.13.4 | Insulation between conductors on the same inner surface | TEX WHITEK WHITEK WHITE | N/A |
| G.13.5 | Insulation between conductors on different surfaces | F ITER STEEL WITER ON | N/A |
| | Distance through insulation | Au Au Au | N/A |
| White a | Number of insulation layers (pcs) | OLIER WALE WHILE WALE | 11/15 |
| G.13.6 | Tests on coated printed boards | at at at the | N/A |
| G.13.6.1 | Sample preparation and preliminary inspection | The Mitter Mary Mary | N/A |
| G.13.6.2 | Test method and compliance | et tet tet stet stet e | N/A |
| G.14 | Coating on components terminals | The Me Me | N/A |
| G.14.1 | Requirements | No such coating | N/A |
| G.15 | Pressurized liquid filled components | | N/A |
| G.15.1 | Requirements | No such liquid | N/A |
| G.15.2 | Test methods and compliance | A TEN TEN | N/A |
| G.15.2.1 | Hydrostatic pressure test | 2 May My | N/A |
| G.15.2.2 | Creep resistance test | The street of | N/A |
| G.15.2.3 | Tubing and fittings compatibility test | 24 24 24 | N/A |
| G.15.2.4 | Vibration test | NITER WITE WALTER WALTE | N/A |
| G.15.2.5 | Thermal cycling test | a st set set | N/A |
| G.15.2.6 | Force test | THE MULT MULT MULT | N/A |
| G.15.3 | Compliance | et let itet itet | N/A |
| G.16 | IC including capacitor discharge function (ICX) | | N/A |
| G.16.1 | Condition for fault tested is not required | No such ICX | N/A |
| MULTER W | ICX with associated circuitry tested in equipment | 211 211 | N/A |
| | ICX tested separately | NITER MITE WALLE WALL | N/A |
| G.16.2 | Tests | at at all the | N/A |
| | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test: | is were and the | 16 Th |
| | Mains voltage that impulses to be superimposed on | MULL MILL MILL M | <u> </u> |
| | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test: | white mil with whi | - TEN |
| G.16.3 | Capacitor discharge test | THE WILL WILL MALL | N/A |



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|------------|----------------------|----------------|-----------------|------|---------|
| THE WALL | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | in the tall | Result - Remark | et e | Verdict |

| H J | CRITERIA FOR TELEPHONE RINGING SIGNALS | The state of the | N/A |
|---------------|--|---|------------|
| H.1 | General Method A | | N/A N/A |
| H.2 | | | |
| H.3 | Method B | it, mit, me, me, a | N/A |
| H.3.1 | Ringing signal | No telephone ringing signal generated within the equipment. | N/A |
| H.3.1.1 | Frequency (Hz) | Write Wir Wer Wir | 10 |
| H.3.1.2 | Voltage (V) | TEX TEX STEX NUTER | nuter. |
| H.3.1.3 | Cadence; time (s) and voltage (V) | | |
| H.3.1.4 | Single fault current (mA): | EX OFFER NOTES MATERIAL | -91 |
| H.3.2 | Tripping device and monitoring voltage | ** ** ** ** ** | N/A |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | Mill Mill Mill Mill Mill | N/A |
| H.3.2.2 | Tripping device | Unite White White White | N/A |
| H.3.2.3 | Monitoring voltage (V) | THE STEEL | N/A |
| J Elt (TE) | INSULATED WINDING WIRES FOR USE WITHOU INSULATION | T INTERLEAVED | P P |
| J.1 | General | mer my my my | Р |
| WITE | Winding wire insulation: | LIER SLIER WILLIAMITE | W. C. |
| , et | Solid round winding wire, diameter (mm) | The The Table | N/A |
| nr. n | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²) | ATTER WATER WATER WATER | N/A |
| J.2/J.3 | Tests and Manufacturing | TER WITE MUTE MUTE AN | _al |
| K SO | SAFETY INTERLOCKS | s at at at a | N/A |
| K.1 | General requirements | Muric Mer Mar Mar | N/A |
| MITER | Instructional safeguard: | No safety interlock provided. | N/A |
| K.2 | Components of safety interlock safeguard mech | anism | N/A |
| K.3 | Inadvertent change of operating mode | | N/A |
| K.4 | Interlock safeguard override | the state of | N/A |
| K.5 | Fail-safe | ier with Aut. Aut. Au. | N/A |
| K.5.1 | Under single fault condition | , get test trest with | N/A |
| K.6 | Mechanically operated safety interlocks | Mr. Mr. Mr. An | N/A |
| K.6.1 | Endurance requirement | TEX TEX STEE SUTE | N/A |



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| it will | | EN IEC 62368-1 | | |
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| Clause | Requirement + Test | MULL MIN ON | Result - Remark | Verdict |
| in. | 24 14 14 | | MITE WITE WITE | mr. m. |

| Cladoo | Trequirement : Toet | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
|---------------------|---|---|---------|
| Mer | M. M. J. A. THE LIFE | White white out, whi | n, |
| K.6.2 | Test method and compliance: | a state of the | N/A |
| K.7 | Interlock circuit isolation | MULLE MULLE MULL MULL | N/A |
| K.7.1 | Separation distance for contact gaps & interlock circuit elements | TEX DITES MITTER MILITER W | N/A |
| ek waliek | In circuit connected to mains, separation distance for contact gaps (mm) | t stiet wifet with | N/A |
| MALIER | In circuit isolated from mains, separation distance for contact gaps (mm) | TEX NIFEX WITER WITER | N/A |
| NLTEK W | Electric strength test before and after the test of K.7.2 | (See appended table 5.4.9) | N/A |
| K.7.2 | Overload test, Current (A) | 2. 20. 20. 20. | N/A |
| K.7.3 | Endurance test | EX STER WILL MULL M | N/A |
| K.7.4 | Electric strength test | at the title of | N/A |
| 741 | DISCONNECT DEVICES | WHITE WALTE WALL WILL | Р |
| L.1.TEL | General requirements | Plug portion considered as disconnect device. | P |
| L.2 | Permanently connected equipment | the little | N/A |
| L.3 | Parts that remain energized | No parts remain energized after the plug portion disconnected | P |
| L.4 | Single-phase equipment | The plug portion disconnects both poles simultaneously. | W. P.E. |
| L.5 | Three-phase equipment | a at all the | N/A |
| L.6 | Switches as disconnect devices | Will Mrs. Aug. Aug. | N/A |
| L.7 _{Wh} t | Plugs as disconnect devices | Plug portion considered as disconnect device. | TE P |
| L.8 | Multiple power sources | Single power source | N/A |
| 4,, | Instructional safeguard: | They have some | N/A |
| Marie | EQUIPMENT CONTAINING BATTERIES AND THE | IR PROTECTION CIRCUITS | N/A |
| M.1 | General requirements | M. M. S. | N/A |
| M.2 | Safety of batteries and their cells | ALTER WALTER WALLE WALLE | N/A |
| M.2.1 | Batteries and their cells comply with relevant IEC standards | No battery used | N/A |
| M.3 | Protection circuits for batteries provided within the equipment | NLIER MALER MALIER MALE | N/A |
| M.3.1 | Requirements | The state of | N/A |



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| MULL | EN IEC 62368-1 | r. an |
|---------|---|---------|
| Clause | Requirement + Test Result - Remark | Verdict |
| M.3.2 | Test method | N/A |
| (1) (1) | Overcharging of a rechargeable battery | N/A |
| i i | Excessive discharging | N/A |
| et lit | Unintentional charging of a non-rechargeable battery | N/A |
| 700 | Reverse charging of a rechargeable battery | N/A |
| M.3.3 | Compliance | N/A |
| M.4 | Additional safeguards for equipment containing a portable secondary lithium battery | N/A |
| M.4.1 | General | N/A |
| M.4.2 | Charging safeguards | N/A |
| M.4.2.1 | Requirements | N/A |
| M.4.2.2 | Compliance | N/A |
| M.4.3 | Fire enclosure: | N/A |
| M.4.4 | Drop test of equipment containing a secondary lithium battery | N/A |
| M.4.4.2 | Preparation and procedure for the drop test | N/A |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):: | N/A |
| M.4.4.4 | Check of the charge/discharge function | N/A |
| M.4.4.5 | Charge / discharge cycle test | N/A |
| M.4.4.6 | Compliance | N/A |
| M.5 | Risk of burn due to short-circuit during carrying | N/A |
| M.5.1 | Requirement | N/A |
| M.5.2 | Test method and compliance | N/A |
| M.6 | Safeguards against short-circuits | N/A |
| M.6.1 | External and internal faults | N/A |
| M.6.2 | Compliance | N/A |
| M.7 | Risk of explosion from lead acid and NiCd batteries | N/A |
| M.7.1 | Ventilation preventing explosive gas concentration | N/A |
| M | Calculated hydrogen generation rate | N/A |
| M.7.2 | Test method and compliance | N/A |
| 10, | Minimum air flow rate, Q (m³/h) | N/A |
| M.7.3 | Ventilation tests | N/A |



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| Claus | Definition of L. Total | Decult Demonit | \/ = ==!! =! |
|----------|---|--|--------------------------------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| M.7.3.1 | General | State of the same of the same | N/A |
| M.7.3.2 | Ventilation test – alternative 1 | LIFE WALLE WALLE WALLE | N/A |
| 18th 15 | Hydrogen gas concentration (%) | ii a at at at | N/A |
| M.7.3.3 | Ventilation test – alternative 2 | NL MULL MULL MILL A | N/A |
| Et MITES | Obtained hydrogen generation rate | ing to the the street and | N/A |
| M.7.3.4 | Ventilation test – alternative 3 | in my many | N/A |
| WALTE V | Hydrogen gas concentration (%) | et alter miter ancie while | N/A |
| M.7.4 | Marking | i to the state of | N/A |
| M.8 | Protection against internal ignition from extern with aqueous electrolyte | nal spark sources of batteries | N/A |
| M.8.1 | General | IN ET WALTER WALTER WALTER WALTER | N/A |
| M.8.2 | Test method | A set set set se | N/A |
| M.8.2.1 | General | The Mr. Mr. M. | N/A |
| M.8.2.2 | Estimation of hypothetical volume V_Z (m³/s) | # ITEM STEE STEE WITE | MALTE. |
| M.8.2.3 | Correction factors | | 1 |
| M.8.2.4 | Calculation of distance d (mm) | " THE WALL WALL O | 1 - 21 |
| M.9 | Preventing electrolyte spillage | L THE | N/A |
| M.9.1 | Protection from electrolyte spillage | nii whii whi wi w | N/A |
| M.9.2 | Tray for preventing electrolyte spillage | Et TEX TEX OUTER OUT | N/A |
| M.10 | Instructions to prevent reasonably foreseeable misuse | the test of the states | N/A |
| | Instructional safeguard | ": 1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 | N/A |
| N JULL | ELECTROCHEMICAL POTENTIALS | alter outer unite online of | N/A |
| * 15* | Material(s) used | .: Pollution degree considered | d* −d |
| 0 4/12 | MEASUREMENT OF CREEPAGE DISTANCES | AND CLEARANCES | Р |
| N. TEK | Value of X (mm) | .: Considered. | F CLEEK |
| P | SAFEGUARDS AGAINST CONDUCTIVE OBJECT | CTS | Р |
| P.1 | General | TEX LIER NUTER MITE | n ^{LT} P _U |
| P.2 | Safeguards against entry or consequences of | entry of a foreign object | P P |
| P.2.1 | General | NITER WILL WHILE WHILE AN | Р |
| P.2.2 | Safeguards against entry of a foreign object | No openings. | 6 - TE |
| 700 | Location and Dimensions (mm) | is the man and an | 29, |



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| in the | EN IEC 62368-1 | illy write with which was | 40 |
|----------|---|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict |
| P.2.3 | Safeguards against the consequences of entry of a foreign object | TEEL STEEL STEEL SHIFTEN | N/A |
| P.2.3.1 | Safeguard requirements | | N/A |
| ir in | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment | Not transportable equipment | N/A |
| MUL | Transportable equipment with metalized plastic parts | Not transportable equipment | N/A |
| P.2.3.2 | Consequence of entry test | CLIER WILL WALLE WALLE | N/A |
| P.3 | Safeguards against spillage of internal liquids | a state of the | N/A |
| P.3.1 | General | No such liquids. | N/A |
| P.3.2 | Determination of spillage consequences | of the the the | N/A |
| P.3.3 | Spillage safeguards | Mer Mr. Mr. M. | N/A |
| P.3.4 | Compliance | TER STER WITE MILES WITE | N/A |
| P.4 | Metallized coatings and adhesives securing part | S VIII | N/A |
| P.4.1 | General | No such construction. | N/A |
| P.4.2 | Tests | at the | N/A |
| 71/2 | Conditioning, T _C (°C) | and and a | |
| Et OLIE | Duration (weeks) | The life of | 11 11 11 11 11 11 11 11 11 11 11 11 11 |
| Q | CIRCUITS INTENDED FOR INTERCONNECTION | WITH BUILDING WIRING | Р |
| Q.1 | Limited power sources | (See appended table Q.1) | WP. |
| Q.1.1 | Requirements | | N/A |
| mer an | a) Inherently limited output | ALTE MALL WALL WALL | N/A |
| TEX WILL | b) Impedance limited output | A regulating network limits the output in compliance with table Q.1 both under normal operating conditions and after any single fault. | P |
| WITE | c) Regulating network limited output | THE STEE OUTER SOUTE | N/A |
| J. | d) Overcurrent protective device limited output | m. m. a. | N/A |
| Vez Mu | e) IC current limiter complying with G.9 | LIEF WALTER WALTER WALTER | N/A |
| Q.1.2 | Test method and compliance | (See appended table Q.1) | P |
| L TEX | Current rating of overcurrent protective device (A) | (See appended table Q.1) | Р |
| Q.2 | Test for external circuits – paired conductor cable | No such circuit for connection to the EUT | N/A |



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| 211 | EN IEC 62368-1 | the wife with the | 100 |
|-------------|---|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| - in- | Maximum output current (A) | Marie Marie Mar Mar | N/A |
| 10-2EF-101 | | THE LIFE ALL MARKET | IVA |
| D | Current limiting method | by my my m | NI/A |
| R | LIMITED SHORT CIRCUIT TEST | The cost of the second | N/A |
| R.1 | General | No such consideration. | N/A |
| R.2 | Test setup | Miller While Many May May | N/A |
| - CER | Overcurrent protective device for test | | 1 10 |
| R.3 | Test method | MUTTE WALL MAL MAN | N/A |
| LIEK ON | Cord/cable used for test: | act set set stet stet | CLI CT |
| R.4 | Compliance | or mer me m | N/A |
| STATE | TESTS FOR RESISTANCE TO HEAT AND FIRE | tek itek altek mitek so | N/A |
| S.1 | Flammability test for fire enclosures and fire bar where the steady state power does not exceed 4 | | N/A |
| NLTEX S | Samples, material | Approved fire enclosure with V-0 material used. | MITER |
| 22, | Wall thickness (mm) | Nr. Mr. Mr. Mr. | \ |
| retien when | Conditioning (°C) | EL CALLE MALLE | 111 -11 |
| EK NALTE | Test flame according to IEC 60695-11-5 with conditions as set out | The party party was | N/A |
| - et | - Material not consumed completely | 70° 40° 4 | N/A |
| Muss. | - Material extinguishes within 30s | WILL NUTE MULL MALL | N/A |
| LET. | - No burning of layer or wrapping tissue | a state of | N/A |
| S.2 | Flammability test for fire enclosure and fire barrier integrity | | |
| CTER MIT | Samples, material | et get get green | cient n |
| 4 14 | Wall thickness (mm) | The man and the | L |
| MULTER | Conditioning (°C) | - lifet nitet uniternit | 100 |
| S.3 | Flammability test for the bottom of a fire enclosu | ire L | N/A |
| S.3.1 | Mounting of samples | INLIER WHITE WHITE WHITE | N/A |
| S.3.2 | Test method and compliance | at the tite tite | N/A |
| e an | Mounting of samples | The Mary Mary Mary | |
| TEK JALIE | Wall thickness (mm) | at the the will be | The Thi |
| S.4 | Flammability classification of materials | any any any | N/A |
| S.5 | Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W | WHITE WILLS WHITE WAS | N/A |



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| MUE | EN IEC 62368-1 | iter write and while and | a apr |
|-----------------|--|---|-----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Mer | Will Mill The The The The The | White white whi whe | - an- |
| Jet . | Samples, material: | a state of | · 124 |
| 21/2 21 | Wall thickness (mm) | WILL MULL AND AND | z, — |
| | Conditioning (°C) | ret ret week wirek | USLIEN OF |
| Ţ ` | MECHANICAL STRENGTH TESTS | or mer me me | Р |
| T.1 | General | EK STEK WITER WITER WA | Р |
| T.2 | Steady force test, 10 N | (See appended table T.2) | P |
| T.3 | Steady force test, 30 N | INLIER WALL WALL WALL WALL | N/A |
| T.4 | Steady force test, 100 N | (See appended table T.4) | P |
| T.5 | Steady force test, 250 N | The Mr. Mr. Mr. | N/A |
| T.6 | Enclosure impact test | Et TEX LIER OLIER II | N/A |
| L .* | Fall test | Aller Any Any | N/A |
| WILL | Swing test | wifet inties until your | N/A |
| T.7 | Drop test: | (See appended table T.7) | Р |
| T.8 | Stress relief test | (See appended table T.8) | Р |
| T.9 | Glass Impact Test | No such glass | N/A |
| T.10 | Glass fragmentation test | | N/A |
| EK NALTE | Number of particles counted | No such glass | N/A |
| T.11 | Test for telescoping or rod antennas | W. 20, 20, 3 | N/A |
| WILL. | Torque value (Nm) | No such antennas provided within the equipment. | N/A |
| n ₇₇ | MECHANICAL STRENGTH OF CATHODE RAY TU PROTECTION AGAINST THE EFFECTS OF IMPLO | | N/A |
| Ú.1 | General | LIEK NITER WILLER WATER OF | N/A |
| JY WALTER | Instructional safeguard : | No CRT provided within the equipment. | N/A |
| U.2 | Test method and compliance for non-intrinsically protected CRTs | | N/A |
| U.3 | Protective screen | alies mitte antie antie | N/A |



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| 24/2 | EN IEC 62368-1 | atile with white was my | -2,1 |
|---------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| V.1.5 | Slot openings tested with wedge probe | the same and same | N/A |
| V.1.6 | Terminals tested with rigid test wire | LITER MITTER MITTER | N/A |
| V.2 | Accessible part criterion | | Р |
| X | ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS) | | P |
| TEX | Clearance | .: (See appended table X) | P |
| Y | CONSTRUCTION REQUIREMENTS FOR OUTDO | OOR ENCLOSURES | N/A |
| Y.1 | General | Indoor equipment | N/A |
| Y.2 | Resistance to UV radiation | The Man Man Man | N/A |
| Y.3 | Resistance to corrosion | TER STER WILL MILE MI | N/A |
| Y.3 | Resistance to corrosion | | N/A |
| Y.3.1 | Metallic parts of outdoor enclosures are resistant effects of water-borne contaminants by | Control of the Contro | N/A |
| Y.3.2 | Test apparatus | K NITER WILLIAM WALLE | N/A |
| Y.3.3 | Water – saturated sulphur dioxide atmosphere | At At | N/A |
| Y.3.4 | Test procedure | i The man with the | N/A |
| Y.3.5 | Compliance | The life of | N/A |
| Y.4 | Gaskets / / / / / / / / / / / / / / / / / / / | re mer me me m | N/A |
| Y.4.1 | General | EX LIEX OLIEX MITER MILE | N/A |
| Y.4.2 | Gasket tests | The state of the | N/A |
| Y.4.3 | Tensile strength and elongation tests | MITE WALLE WALLE WALL | N/A |
| 16th 15 | Alternative test methods | at at let let | N/A |
| Y.4.4 | Compression test | ANT ANT ANT ANT ANT | N/A |
| Y.4.5 | Oil resistance | TE TEN STEN NITER MIST | N/A |
| Y.4.6 | Securing means | | N/A |
| Y.5 | Protection of equipment within an outdoor encl | osure | N/A |
| Y.5.1 | General | | N/A |
| Y.5.2 | Protection from moisture | White white white white | N/A |
| TEK JE | Relevant tests of IEC 60529 or Y.5.3 | it the left the time | N/A |
| Y.5.3 | Water spray test | VE MUSS ANT AND AND | N/A |
| Y.5.4 | Protection from plants and vermin | tel itel litel scited write | N/A |
| Y.5.5 | Protection from excessive dust | The The Shirt | N/A |
| Y.5.5.1 | General | TE STEE STEE STEELS | N/A |



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| | EN IEC 623 | 68-1 | |
|---------|-----------------------------------|-------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| in in | Mr. Mr. All | LIFE MITE WITH WALL | who we |
| Y.5.5.2 | IP5X equipment | All the state of | N/A |
| Y.5.5.3 | IP6X equipment | CLIEF NITE WILL WILL VI | N/A |
| Y.6 | Mechanical strength of enclosures | a de de de c | N/A |
| Y.6.1 | General | it me me me | N/A |
| Y.6.2 | Impact test | firming to the the stre | N/A |

WATER E

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| report No | W 11 22D 102 14 19 1 100 1 | r age 44 01 04 | | |
|-----------|----------------------------|-----------------|-----------------|-----------|
| The WALL | | EN IEC 62368-1 | | MULL MULL |
| Clause | Requirement + Test | LIE WILL WAS AN | Result - Remark | Verdict |

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment - Part 1: Safety requirements)

Differences according to..... EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

Master Attachment 2021-02-04

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| 11/1 | CENELEC COMMON MODIFICATIONS (E | (N) NITE WILL WILL WILL WILL | Р |
|--------------------------|---|---|----------------------------|
| MUTER OF | Clause numbers in the cells that are shaded IEC 62368-1:2020+A11:2020. All other clau those in the paragraph below, refers to IEC Clauses, subclauses, notes, tables, figures those in IEC 62368-1:2018 are prefixed "Z" | se numbers in that column, except for 62368-1:2018. and annexes which are additional to | P |
| ALL WALTER WALTER WALTER | Annex ZB (normative) Special nation Annex ZC (informative) A-deviation | references to international publications orresponding European publications ional conditions as | Pour Ex white whitex |
| 1 | Modification to Clause 3. | | N/A |
| 3.3.19 | Sound exposure Replace 3.3.19 of IEC 62368-1 with the foll | owing definitions: | N/A |
| 3.3.19.1 | momentary exposure level, MEL metric for estimating 1 s sound exposure lev the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-wei levels in dB. Note 2 to entry: See B.3 of EN 50332-3:201 additional information. | ghted | N/A |



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| | | EN IEC 62368-1 | |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| Mrs. | M. M. J. | | an. |
|-----------|--|---------------------------------|--------------|
| 3.3.19.3 | sound exposure, E | The state of | N/A |
| | A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i> | NUTER WALTER WALTER WHITE | anti (|
| | Note 1 to entry: The SI unit is Pa ² s. | CENT TEN STEEL STEEL | ALTER NA |
| | T ST AND STATE STA | in the me in a | |
| | $E = \int_{0}^{\infty} p(t)^{2} dt$ | Whitek whitek whitek whi | LA WALT |
| 3.3.19.4 | sound exposure level, SEL | WITE WILL WILL WILL | N/A |
| | logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans. | LITER WALTER WHITER WHITER | ALTER W |
| | Note 1 to entry: SEL is measured as A-weighted levels in dB. | est white white white wh | e unite |
| | $SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$ | with white white white | GINLIE! |
| | Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information. | tet of the parent | RATEK NI |
| 3.3.19.5 | digital signal level relative to full scale, dBFS | 2 24 20 | N/A |
| | levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused | White white white white | WALTER |
| | Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS. | EX WHITEX WHITEX WHITEX | MATER V |
| 2 | Modification to Clause 10 | | N/A |
| 10.6 | Safeguards against acoustic energy sources | 71 A | N/A |
| | Replace 10.6 of IEC 62368-1 with the following: | | MILITE |
| 10.6.1.1 | Introduction | Not such equipment | N/A |
| | Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: | THE WALTER WALTER WALTER WALTER | LEX WATER |
| | – is designed to allow the user to listen to audio or | LEK TEK TEK STEK | INLIER |
| (I) - (I) | io assigned to allow the user to lister to addit of | the street of the state of | $t_0 = \tau$ |



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| | EN IEC 62368-1 | | |
|-------------|--|-------------------------|---------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| WALTER WALT | audiovisual content / material; and – uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and – has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is | ALTER WALTER WALTER WAS | TEX ON TEX ON |
| | intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio | t whitek whitek white | MILLER MILLER |
| | players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. | TITER WHITER WHITER W | THE STREET OF |
| | NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. | es united united united | White multer |
| | NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible. | UNLIEK WILLER WILLER | UNITER WITER |
| | Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: | white white while | Whitek multer |
| | professional equipment; NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. | SUFFE WHITE WHITE W | nitek mitek |
| | hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a | Whitek Whitek White | MULTER WHITER |
| | multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder; NOTE 4 This exemption has been allowed because | THE MUTTER MUTTER ON | itet witet |
| | this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. | Whitek whitek whitek | White white |
| | a player while connected to an external amplifier that does not allow the user to walk around while in | itek litek slitek | INLIER WALTER |



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| Me | EN IEC 62368-1 | | | |
|----------------------|--|--------------------------------|----------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| whitek wi | use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. | NUTER WALTER WALTER | MILIEK . | |
| * VIII H VIII.TEH | The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. | The white white white | y ynif | |
| 10.6.1.2 | Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz The amount of non-ionizing radiation is regulated by European Council Recommendation | WALTER WALTER WALTER | N/A | |
| | 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and | LITER WALTER WALTER WALTER WAS | | |
| WALL | Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566. | Whitek whitek white white | WAL | |
| 10.6.2 | Classification of devices without the capacity to | estimate sound dose | N/A | |
| 10.6.2.1 | General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , measurements are based on the A-weighted | No such part in this equipment | | |
| | equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i>) measured over the duration of the song is lower than the average produced by the | LIFER WHITE WHITE WHITE | | |
| | programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. | Whitek whitek whitek white | | |
| | NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i>) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and | THE MILITER WHITE WHITE | | |
| | compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the | A ANTIER MUTER AUTER ANTE | | |
| | programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound | WILL MILES MILES MILES | | |



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| report No. | . W11 22D 102141911001 | 1 age 40 01 04 | <u> </u> | the second |
|------------|------------------------|----------------|-----------------|------------|
| The Muli | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | ite min me an | Result - Remark | Verdict |

| JEK 18 | level of the song is not above the basic limit of 85 dB. | A At At S | EK SLIEK |
|--|--|--|---|
| 10.6.2.2 | RS1 limits (to be superseded, see 10.6.3.2) | VII. MUS. Mr. Mr. | N/A |
| TEK WILTER WINTER WINTE | RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as | TER WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER | ATE ANTER OF |
| 10.6.2.3 | per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3) | | N/A |
| | RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. | JUNETER WHITER W | and ex antrex on tex
| 10.6.2.4 | RS3 limits | LIEX MITER WHITE WHITE | N/A |
| | RS3 is a class 3 acoustic energy source that exceeds RS2 limits. | t at at at | WEF N |
| 10.6.3 | Classification of devices (new) | MULL MULL MILL | N/A |
| 10.6.3.1 | General | Not such equipment | N/A |
| | Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given | While Miles miles whi | EX MILIER |



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| | below. | 24, 27, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20 | |
|--|---|--|---|
| 10.6.3.2 | RS1 limits (new) | LEK TEK STEK ST | N/A |
| | RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. | Act was white whit | AN LIEX AND |
| 10.6.3.3 | RS2 limits (new) | Mr. Aller M. M. | N/A |
| ANTIFE AND THE | RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. | INTER WALTER | THE WALTER WA |
| 10.6.4 | Requirements for maximum sound exposure | THE THE THE N | N/A |
| 10.6.4.1 | Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. | Not such equipment | N/A |
| 10.6.4.2 | Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. | Whitek whitek whitek w | N/A |



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| 19/2 1 | W W SHE THE | CLIEB WALL WALL V | Ve 140 |
| | NOTE 1 Volume control is not considered a | 20, 20 | Jt 18t |
| | safeguard. | THE THE STREET OF | The Maria |
| | Between RS2 and an ordinary person , the basic | We Mr. M. D. | |
| | safeguard may be replaced by an instructional | at at all all | L CIET II |
| | safeguard in accordance with Clause F.5, except | lik auti auti auti | 211. 211 |
| | that the instructional safeguard shall be placed | and the set | 1 |
| | on the equipment, or on the packaging, or in the instruction manual. | LIFE WITH WHILE | were and |
| | Alternatively, the instructional safeguard may be | 24, 24, 24 | |
| | given through the equipment display during use. | THE STEEL STEEL OF | LITER MALTE |
| | The elements of the instructional safeguard shall | mer are an | 20 |
| | be as follows: | at at let o | Et LIET |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | itte with with min | 7/1 7 |
| | - element 1a: the symbol ., IEC 60417-6044 | | - 1 |
| | (2011-01) | the outer write write | are, an |
| | - element 2: "High sound pressure" or equivalent | 24, 24, 2. | 16 0 |
| | wording | TEX TEX TIES | INLIE SINLIE |
| | element 3: "Hearing damage risk" or equivalent wording | wer me me | 20 |
| | – element 4: "Do not listen at high volume levels for | at at the | TEK TIER |
| | long periods." or equivalent wording | Write Murie Mur. M. | 2/1/2 |
| | An equipment safeguard shall prevent exposure | | * 1E* |
| | of an ordinary person to an RS2 source without | THE MALL WALL | 21/20 21 |
| | intentional physical action from the ordinary | 7 3 | * |
| | person and shall automatically return to an output level not exceeding what is specified for an RS1 | The Little Chile | ant' ant |
| | source when the power is switched off. | The The M | |
| | arity office and any are | LET TEX CIENT | LIE RUTE |
| | The equipment shall provide a means to actively | When Myer Myer M | 20, |
| | inform the user of the increased sound level when the equipment is operated with an output exceeding | | at let |
| | RS1. Any means used shall be acknowledged by | LIER WITE WHILE WAS | 100 |
| | the user before activating a mode of operation | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | . J. |
| | which allows for an output exceeding RS1. The | LET TEX TEX VIEW WITE | 10.22 |
| | acknowledgement does not need to be repeated more than once every 20 h of cumulative listening | in me me m | 40. |
| | time. | at let let | J. 17 |
| | V VI L At 1784 SLIER WLIE | MALIE MALIE WALE | 11/2 |
| | NOTE 2 Examples of means include visual or | * * * * * * * * * * * * * * * * * * * | LEK LEK |
| | audible signals. Action from the user is always needed. | LIER WILLER WILL M | in with |
| | needed. | Mr. 24. 24. | 1 1 |
| | NOTE 3 The 20 h listening time is the accumulative | LET TEX STER J | The state of |
| | listening time, independent of how often and how | in mur in in | 7 7 |
| | long the personal music player has been switched off. | a start set | C Eth |
| | SILL STEEL S | I WALL WALL MALL | 21/2 |
| | A skilled person shall not be unintentionally | t at at | 18 JE |
| 0.6.5 | exposed to RS3. Requirements for dose-based systems | White Maile Mills | N/A |
| 0.6.5.1 | General requirements | Not such equipment | N/A |
| (1) | Personal music players shall give the warnings as | The state of the s | 11.11 |



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| MULL | EN IEC 62368-1 | | |
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| WILEK OF | provided below when tested according to EN 50332-3, using the limits from this clause. | Tet Tet Tet | Wilek Wilek |
| | The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. | TEE TEE OLIER OF | ick out tek out |
| | The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. | it whitek whitek whitek whitek whitek whitek | TEX WHITE |
| 10.6.5.2 | Dose-based warning and requirements | intig min in a | N/A |
| | When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. | white white white | TEX WITEX WILLE |
| MAL. | The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss. | MUTER WHITE WHITE | WALL WIFE |
| 10.6.5.3 | Exposure-based requirements | KIT WALL WALL WIT | N/A |
| | With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. | EX WHITEX WHITEX WHITE | White White |
| | The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. | JULIER MUTER MUTER | WALL MALLEY WAS |
| Whitek | Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided | Whitek Whitek Whitek | White whitek |



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| whitek whi | with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the EL may be disabled. | NUTER WALTER WALTER WALTER | TEK MITEK |
| 10.6.6 | Requirements for listening devices (headphones | , earphones, etc.) | N/A |
| 10.6.6.1 | Corded listening devices with analogue input With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. | Not such equipment | N/A |
| 10.6.6.2 | Corded listening devices with digital input | ne my | N/A |
| EX WALTER WALTER | With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq$, T acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS. | antie whitek whitek | WALTER WALTER |
| 10.6.6.3 | Cordless listening devices | The sure sure sur | N/A |
| THE WALTER WALTER WALTER WALTER WALTER WALTER WALTER | In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. | EX UNLIER WHITE WHITE WHITE WHITE WHITE JEK WHITE WHITE | JUNITER WALTER |
| 10.6.6.4 | Measurement method | ALTER MUTER ANTIFER OF | N/A |
| | Measurements shall be made in accordance with EN 50332-2 as applicable. | 111 11 11 1 1 1 1 | Et ZET |
| 3 | Modification to the whole document | | Р |



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| | ot: 0.2.1 | Note 1 and 2 | 1 | Note 4 and 5 | 3.3.8.1 | Note 2 |
|---------|-------------------------|--------------------------------|-------------------------|-----------------------|--------------|-----------------------|
| | 0.2.1 | Note Fand 2 | | Note 4 and 5 | 3.3.0.1 | Note 2 |
| | 3.3.8.3 | Note 1 | 4.1.15 | Note | 4.7.3 | Note 1 and 2 |
| -111 | 5.2.2.2 | Note | 5.4.2.3.2.2 Table 12 | Note c | 5.4.2.3.2.4 | Note 1 and 3 |
| IL:ZZ | 5.4.2.3.2.4 Table 13 | Note 2 | 5.4.2.5 | Note 2 | 5.4.5.1 | Note |
| 54.34 | 5.4.10.2.1 | Note | 5.4.10.2.2 | Note | 5.4.10.2.3 | Note |
| | | | | | | |
| 7 if | 5.5.2.1 | Note | 5.5.6 | Note | 5.6.4.2.1 | Note 2 and 3 and 4 |
| فاي | 5.6.8 | Note 2 | 5.7.6 | Note | 5.7.7.1 | Note 1 and Note 2 |
| S. C. | 8.5.4.2.3 | Note | 10.2.1 | Note 3 and 4 and 5 | 10.5.3 | Note 2 |
| | | | Table 39 | | | |
| | 10.6.1 | Note 3 | F.3.3.6 | Note 3 | Y.4.1 | Note |
| ۱ ا | Y.4.5 | Note | | | | |
| 11/2 | | | | AC AV | .0" | Y .10" |
| M | odification | to Clause 1 | | | | |
| N | | use of certair equipment is | | | UNITER JUNIT | White wh |
| | odification | | | | | |



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| 4.Z1 | Add the following new subclause after 4.9: To protect against excessive current, short-circuits | TEX ITEX SLIPE WITER | P. | |
| | and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) | TEK WITTER MUTTER MUTTER ON | LIEN WY | |
| | and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; | WALLER WALLER WALLER | WALTER | |
| | b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; | LIEK WHIEK WHIEK WHIEK | NLTEK W | |
| | c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. | Whitet white white white | t white whitek | |
| | If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. | The suntification of the sunti | ek Tiek M Ek | |
| 6 | Modification to 5.4.2.3.2.4 | | N/A | |
| 5.4.2.3.2.4 | Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. | No connection to external circuit. | N/A | |
| 7 | Modification to 10.2.1 | | N/A | |
| | Add the following to c) and d) in table 39: For additional requirements, see 10.5.1. | Added. The equipment is a low power AC ADAPTER, it does incorporate only non-intentional radiators, but does not contain radio transmitters; the typical usage, installation and physical characteristics make the equipment inherently compliant with all applicable EMF exposure levels (EN 62479: 2010 clause 4.1 Route A). | N/A | |
| 300 | Modification to 10.5.1 | | N/A | |



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| 10.5.1 | Add the following after the first paragraph: | N/A |
|---------|---|----------------------|
| anite v | For RS 1 compliance is checked by measurement under the following conditions: | Nifek Whiter Will. |
| | In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. | TER WHITEK WHITEK |
| | NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. | LIFE WALTER WALTER |
| | The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. | EX MUTER MUTER M |
| | Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. | MILIER WALLER WALLER |
| | For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. | the mile main a |
| Alver. | NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. | MULLI MUT MUT |
| 9 | Modification to G.7.1 | N/A |
| G.7.1 | Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. | N/A |
| 10 | Modification to Bibliography | N/A |



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|---|--|---|---|
| LEF S | Add the following notes for the standards indicate | d: | P |
| une united Lited united Whited united Incited united Lited united Lited united Lited united | IEC 60130-9 | 269-2. 309-1. d in HD 384/HD 60364 series. 601-2-4. 664-5. 032:1998 (not modified). 508-1. 558-2-1. 558-2-4. 558-2-6. 643-1. 643-311. | JAN WALLER WALL WALLER WALLER WALLER WALLER WALLER WALLER WALLER WALLER WALLER |
| White wh | ADDITION OF ANNEYED | et life alle arti and | MILL |
| 11 ZB | ADDITION OF ANNEXES ANNEX ZB, SPECIAL NATIONAL CONDITIONS | (FN) | N P 3 |
| 4.1.15 | Denmark, Finland, Norway and Sweden | Class II equipment | N/A |
| LEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER | To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socketoutlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" | THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER | EX WALTER WALTER WALTER WALTER WALTER WALTER |
| ALTEK WALTER | In Norway : "Apparatet må tilkoples jordet stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag" | WITER MATER MATER WATER | THE W |



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| alex an | A A THE STE | are are are | Ve m |
| 4.7.3 | United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. | Antitek whitek whitek white The whitek whitek white | TEX TEX |
| 7/2/ 7 | Also see Annex G.4.2 of this annex | A THE WILL THE | our au |
| | Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | No high touch current measured. | N/A |
| 5.4.11.1 and | Finland and Sweden | No TNV circuits. | N/A |
| Annex G | To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation | LEK WHITEK | war ex war |
| | of at least 0,4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition | NUTER WHITER WHITER WAS | TEK WILEK |
| | passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. | united whited whited white white white white white whited white whited | White white |
| WALTEX WALT | It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. | MITER WALTER WALTER | iek willer |



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| 74 | A TEX TEX STEE WITH WHITE WHITE | Antis Anti- My All | - 120 |
| | A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions: | unties whites white white | TEX. |
| | the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; | TER WATER WATER WATER WA | aret 1724 - Wali |
| | the additional testing shall be performed on all the test specimens as described in EN 60384- 14; | white white white white | WALTER OF |
| TEK WALTE | the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. | TEK MITEK MITEK WATER | NISEK WIN |
| 5.5.2.1 | Norway | and the state of | N/A |
| | After the 3rd paragraph the following is added: | White Write Mail May | 21/2 |
| | Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V). | WALTER WALTER WALTER | MULTER. |
| 5.5.6 | Finland, Norway and Sweden | No such resistors. | N/A |
| | To the end of the subclause the following is added: | The Test | |
| MUTER. | Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2. | MULTER WHITER WHITER WHITE | EK MUTLER |
| 5.6.1 | Denmark | No such equipment. | N/A |
| | Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse. | TEX WHITEK | IN TEK WILLE |
| 5.6.4.2.1 | Ireland and United Kingdom | Approved mains plug used | N/A |
| | After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. | (see appended table 4.1.2) | ALIEN ANDE |



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| 5.6.4.2.1 | France | 70, 20, 3 | N/A |
|---------------|---|--|-----------------|
| white white | After the indent for pluggable equipment type A, the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. | NITEK WHITEK WHITEK WHITEK | ATEK W |
| 5.6.5.1 | To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area. | Whitek Multer Multer Multer | N/A |
| 5.6.8 | Norway | LIER OLIER WILL WHILE | N/A |
| MALTER WALTER | To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted. | EX WALTER WALTER WALTER WAL | MUTL Et MUTL |
| 5.7.6 | Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | No high protective conductor current. | N/A |
| 5.7.6.2 | Denmark | The The The | Р |
| MULTER MAI | To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. | Whitek whitek whitek whitek | MALTEX |
| 5.7.7.1 | Norway and Sweden | Not such system. | N/A |
| | To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. | Je whitek whitek whitek whitek whitek whitek whitek whitek | WALTER WALTER |
| | It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. | EX MILEX MILEX MILEX ON | EE VAN |
| Whitek W. | The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: | White while while while | WALTER |



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| | EN IEC 62368-1 | | |
|-----------|--|--|-------------------------------------|
| Clause | Requirement + Test | Result - Remark | Verdic |
| ans. | AN AN A SECTION | THE WILL WILL | no m |
| | "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" | JUNITER WHITER W | TEX WITEX |
| | NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. | NITER WHITER WHITER WHITE | and text and |
| | Translation to Norwegian (the Swedish text will also be accepted in Norway): | WAITER WALTER WALTER | MUTE MUTE |
| | "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." | Whitek whitek whitek whi | LIER WATER |
| antiek an | Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet." | MULTER MULTER WHITER WAS | INLIE WILLE LIEK WLIEK WILLEK |
| 8.5.4.2.3 | United Kingdom | No external circuits. | N/A |
| | Add the following after the 2 nd dash bullet in 3 rd paragraph: | mit mit mi | Mr. M. |
| | An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury. | antife muit muit w | et tex |



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|------------|----------------------|-------------------|-----------------|------|---------|
| THE WALL | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | the Maria And And | Result - Remark | et e | Verdict |

| | THE TE |
|-----------|---|
| B.3.1 and | Ireland and United Kingdom |
| B.4 | The following is applicable: |
| | To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of |
| all s | the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met |
| G.4.2 | Denmark |
| | To the end of the subclause the following is added: |
| | Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. |
| | CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. |
| | If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. |
| | Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. |
| | Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. |
| | Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a |
| | Justification: |
| | Heavy Current Regulations, Section 6c |



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|------------|------------------------|----------------------|-----------------|---------------------|
| Clause | Requirement + Test | THE MUTTER WHITE WAS | Result - Remark | Verdict |

| G.4.2 | United Kingdom | Direct plug-in equipment | N/A |
|------------------------|---|--|--------------|
| | To the end of the subclause the following is added: | Writer Maries Maries Marie | ANTIX. |
| ite united | The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply. | TEX WATER WATER WATER WATER WATER | an it whitek |
| G.7.1 | United Kingdom | Direct plug-in equipment | N/A |
| | To the first paragraph the following is added: | VII. MUE MUE AND | 3 |
| | Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. | Whitek | MITEL UNITED |
| Liter Mili Ek Milie | NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. | The Control White Control | |
| G.7.1 | Ireland | Direct plug-in equipment | N/A |
| White white white | To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard | Whitek wh | on Test our |
| G.7.2 | Ireland and United Kingdom | Direct plug-in equipment | N/A |
| | To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A. | Whitek whitek whitek whitek | WALTER |
| ZC | ANNEX ZC, NATIONAL DEVIATIONS (EN) | 11. 21. 2. | >√N/A |



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|------------|----------------------|-------------------|-----------------|--------|---------|
| THE WALL | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | The Maria And And | Result - Remark | LEK LE | Verdict |

| 10.5.2 | Germany | No CRT within the equipment. | N/A |
|--------|---|------------------------------|-----|
| | The following requirement applies: | ALTER INLIER WALTER WALTER | |
| | For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. | TER MULTER MULTER MULTER MU | |
| | Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. | united united united united | |
| | NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de | EX MILEX MILES MILES MILES | |



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|------------|-----------------------|-------------------|------------------|---------------|
| Clause | Requirement + Test | File Murie Mur Mu | Result - Remark | Verdict |

| Type of flexible cord | Code de | esignations |
|--|--------------|--------------------------|
| | IEC | CENELEC |
| PVC insulated cords | | |
| Flat twin tinsel cord | 60227 IEC 41 | H03VH-Y |
| Light polyvinyl chloride sheathed flexible cord | 60227 IEC 52 | H03VV-F H03VVH2-F |
| Ordinary polyvinyl chloride sheathed flexible cord | 60227 IEC 53 | H05VV-F H05VVH2-F |
| Rubber insulated cords | | |
| Braided cord | 60245 IEC 51 | H03RT-F |
| Ordinary tough rubber sheathed flexible cord | 60245 IEC 53 | H05RR-F |
| Ordinary polychloroprene sheathed flexible cord | 60245 IEC 57 | H05RN-F |
| Heavy polychloroprene sheathed flexible cord | 60245 IEC 66 | H07RN-F |
| Cords having high flexibility | | · |
| Rubber insulated and sheathed cord | 60245 IEC 86 | H03RR-H |
| Rubber insulated, crosslinked PVC sheathed cord | 60245 IEC 87 | H03 RV4-H |
| Crosslinked PVC insulated and sheathed cord | 60245 IEC 88 | H03V4V4-H |
| Cords insulated and sheathed with halogen- free thermoplastic compounds | | |
| Light halogen-free thermoplastic insulated and sheathed flexible cords | | H03Z1Z1-F H03Z1Z1H2-I |
| Ordinary halogen-free thermoplastic insulated and sheathed flexible cords | | H05Z1Z1-F H05Z1Z1H2-I |



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|-----------|----------------------------|-----------------|-----------------|---------|
| Le Mille | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | LIE WILL WAS AN | Result - Remark | Verdict |

| 5.2 | TABLE: Classification | on of electrical | energy sou | rces | | et est | Р |
|---------------------|---|---------------------------|-------------|------------|--------------------|----------------------------------|----------|
| Supply | Location (e.g. | Test | | Para | meters | _ | ES |
| Voltage | circuit designation) | conditions | U (V) | I (mA) | Type ¹⁾ | Additional Info ²⁾ | - Class |
| NITER S | mate white when | Normal | nal 5.16Vdc | SS | JEE STE | 104 | |
| | at let let | Abnormal | 5.12Vdc | res - Aver | SS | n 70 | 7.4 |
| 264Va.c. 60Hz | Output "+" to "-" | Single fault (DB1 SC)* | anti O and | EK WALTER | SS | TER VILLE | ES1 |
| | MUTTE MUTE OF | Single fault (EC1 SC)* | THE ONLY | WAIZEK W | SS | yn Lies yn | L'IEL W |
| EF INLIES INLIES WI | Water Miles Aug | Normal | - 4 | 0.216 | o SS | 60Hz | ES1 |
| | et jet je | Abnormal | That's | 0.232 | SS | 60Hz | |
| 264Va.c, 60Hz | Output "+/-" to earth | Single fault (DB1 SC)* | WUTTER M | 0.232 | SS | 60Hz | |
| | | Single fault (EC1 SC)* | intiek inti | 0.232 | SS N | 60Hz | |
| TE WILL | 12 22 2 | Normal | 18th 18th | 0.06 | SS | 60Hz | 10 |
| 264Va.c, 60Hz | Aggagible | Abnormal | | 0.08 | SS | 60Hz | ES1 |
| | Accessible enclosure with metal foil to earth | Single fault (DB1 SC)* | ik waitek | 0.08 | SS | 60Hz | |
| | A LEX LEX | Single fault (EC1 SC)* | MULIEK JULI | 0.08 | wiss w | 60Hz | in, T |

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.
- 3) Test Conditions:

Normal -Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

*: F1 open immediately. No hazards.

| 5.4.1.8 | TABLE: Working volt | TIL ME A LE PAR | | | |
|------------|---------------------|--------------------|---------------------|-------------------|-----------------------------|
| Location | | RMS voltage (V) | Peak voltage (V) | Frequency (Hz) | Comments |
| T1 pin 1-5 | LIER OLIER MLIE | 230 | 392 | 75.8K | LET TEX STEP |
| T1 pin 2-5 | TEX TEX STER O | 265 | 544 | 75.8K | Max. Vpeak and Vrms voltage |
| T1 pin 3-5 | Mr. M. M. | 236 | 400 | 75.8K | Willy - Mury a |



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| | .L 36 | C 62368-1 | | | |
|------------------|---------------------|--|---|--|---|
| uirement + Test | INLIE WILL | my m | Result - Remark | | Verdict |
| 10. 2. | - A- | 16th 15th | ALTE MAIN | we we | m. |
| | 237 | 452 | 75.8K | A 14 | |
| 0, 20, 2 | 231 | 408 | 75.8K | ner were - v | , i |
| TER WILLER WALTE | 262 | 532 | 75.8K | at let | TEX . |
| a start | 236 | 400 | 75.8K | in the the | di, |
| MALTE WALL | 236 | 428 | 75.8K | F TEX TE | التاي |
| econdary | 235 | 404 | 60 | 20, 20, | 20. |
| formation: | | | | | |
| | econdary formation: | 237 231 262 236 236 236 econdary 235 | 237 452 231 408 262 532 236 400 236 428 econdary 235 404 | 237 452 75.8K 231 408 75.8K 262 532 75.8K 236 400 75.8K 236 428 75.8K 236 428 75.8K 237 452 75.8K 248 75.8K 258 458 75.8K 259 404 60 | 237 452 75.8K 231 408 75.8K 262 532 75.8K 236 400 75.8K 236 428 75.8K econdary 235 404 60 |

| 5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics | | | | | | |
|---|------------------------|------------------|------------------|--|--|--|
| Method | | .: ISO 306 / B50 | MUTTE AND - | | | |
| Object/ Part No./Material | Manufacturer/trademark | Thickness (mm) | T softening (°C) | | | |
| - Mr. Mr. A. | EL TEL OUTER ALL | The WALL WALL | ale ale all | | | |
| Supplementary information: | | | | | | |

| 5.4.1.10.3 | TABLE: Ba | TABLE: Ball pressure test of thermoplastics | | | | | |
|-------------------------|-----------------|---|------------|--------|-----------------------|------------------|------|
| Allowed imp | ression diam | eter (mm) | : | ≤ 2 m | m Cliff Mili | in with | _ |
| Object/Part N | No./Material | Manufacturer/trademark | Thickness | (mm) | Test temperature (°C) | Impre diamete | |
| Plug holder, 945(GG) | Туре | SABIC INNOVATIVE PLASTICS US L LC | 2.0 | W. LEA | 125 | NITEK 1. | 0,04 |
| Supplementa | ary information | on: | | | | | |
| Other materi | als of transfo | ormer are no need to conduct t | this test. | JEX. | LIFE WITE WAS | I. MUE | . W. |

| 5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance | | | | | | Р | | |
|--|-----------------------|----------------------|---------------|------------------|------------|------------------------|------------------|------------|
| Clearance (cl) and creepage distance (cr) at/of/between: | U _p (V) | U _{rms} (V) | Freq 1) (kHz) | Required cl (mm) | cl (mm) | E.S. ²⁾ (V) | Required cr (mm) | cr (mm) |
| L- N before fuse | 420 | 240 | 0.06 | 1.5 | 5.5 | EK 171 | 2.4 | 5.5 |
| Across fuse F1 | 420 | 240 | 0.06 | 1.5 | 2.4 | - 1 | 2.4 | 2.4 |
| Primary live parts to enclosure outside | 420 | 240 | 0.06 | 3.0 | 8.1 | MULL | 4.8 | 8.1 |
| CY1 primary pin to secondary pin | 420 | 240 | 0.06 | 3.0 | 5.1 | in ^{liter} vi | 4.8 | 5.1 |

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| The MULL | me me m | EN IEC 62368-1 | TER STEE WITE WITE | Muli Muli |
|----------|--------------------|------------------|--------------------|-----------|
| Clause | Requirement + Test | LIE WHILE WAS AN | Result - Remark | Verdict |

| Primary trace to secondary trace under T1 | 544 | 265 | 75.8 | 3.0 | 6.9 | TEX | 5.3 | 6.9 |
|--|-----|-----|------|-----|-----|-----------|-----|-----|
| Primary winding to secondary winding of T1 | 544 | 265 | 75.8 | 3.0 | 6.9 | t - ulies | 5.3 | 6.9 |
| Core to secondary winding of T1 | 544 | 265 | 75.8 | 3.0 | 6.9 | -TEK | 5.3 | 6.9 |

Supplementary information:

- 1) Only for frequency above 30 kHz.
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied).
- 3) The core of T1 considered as primary part, the insulation between secondary to core is reinforced insulation.
- 4) Unless otherwise specified, the worst case conditions of Cl. & Cr. in above mentioned locations have been considered and listed.
- 5) Provide Material Group: IIIb.
- 6) BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

| 5.4.4.2 | TABLE: Minimum distance through insulation | | | | | |
|---------------------------|--|------------------|----------------------|-------------------|----------------------|--|
| Distance t (DTI) at/of | hrough insulation | Peak voltage (V) | Insulation | Required DTI (mm) | Measured DTI (mm) | |
| Enclosure | whitek whitek wh | 544 | Reinforce insulation | 0.4 | 1) | |
| Insulation transforme | tape used for er (T1) | 544 | Reinforce insulation | ≥ 2 layers | Not required* | |

Supplementary information:

¹⁾ See appended table 4.1.2 for details.

| 5.4.4.9 | TABLE: Solid insulation at frequencies >30 kHz | | | | | | |
|------------|--|----------------|-----------------|----------------|------------------|-----------------------|-----------------------|
| Insulation | material | E _P | Frequency (kHz) | K _R | Thickness d (mm) | Insulation | V _{PW} (Vpk) |
| Plast | tic Enclosure | ALTEK . | 75.8 | 0.30 | 2.0 | Reinforced insulation | 544 |
| | on tape used for ansformer | TEX IN | 75.8 | 0.34 | 0.05 | Reinforced insulation | 544 |
| Transf | former Bobbin | TEK JIE | 75.8 | 0.53 | 0.75 | Reinforced insulation | 544 |
| TIW fo | or transformer | 10 | 75.8 | 0.34 | JEK -JEK | Reinforced | 544 |

^{*}See also sub-clause 5.4.4.9;



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|------------|--------------------------|---------|----------------|-----------------|-------|---------|
| ALL WALL | | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | Jille 1 | Write We will | Result - Remark | at di | Verdict |

| TEX TEXT STEP OF | TER OLIFE V | UPLE THE | 2/15 | , 12 m | insulation | at let |
|------------------|-------------|----------|------|--------|------------|--------|

Supplementary information:

The bobbin of transformer material is phenolic. All sources of each material have been considered to conduct test, see table 4.1.2 for details.

According to clause 5.4.4.9:

For plastic enclosure alternate method is used, required electric strength test voltage:

1.2*2*544/0.30=4352Vpeak ($K_R=0.30$ for other material).

For Insulation tape used for transformer alternate method is used, required electric strength test voltage: 1.2*2*544/0.34=3840Vpeak ($K_R=0.34$ for Other thin foil materials).

For transformer bobbin alternate method is used, required electric strength test voltage:

1.2*2*544/0.53=2463.4Vpeak ($K_R=0.53$ for Phenolic).

For TIW for transformer alternate method is used, required electric strength test voltage:

1.2*2*544/0.34=3840Vpeak ($K_R=0.34$ for Other thin foil materials).

| 5.4.9 | TABLE: Electric strength tests | TEK LIEK NIT | ik intre white | WE WA | |
|--|---------------------------------------|--|------------------|-------------------------|--|
| Test volta | ge applied between: | Voltage shape (Surge, Impulse, AC, DC, etc.) | Test voltage (V) |) Breakdowr Yes / No | |
| Functiona | ii In In In In In In In | Et TE Et | TOUTE WALT | WILL W | |
| at de | | | 7 | 18th 5 | |
| Basic/sup | plementary: | EX NITEX WITE NO | The MULL MULL | Mr. Mr. | |
| Different p | polarity of mains (Fuse opened) | DC | 2500 | No No | |
| Reinforce | di at at at atter | WILLE WALLE WALL | me me | 1 | |
| L-N input to plastic enclosure wrapped by metal foil | | DC | 4000 | No | |
| L-N input | to secondary terminal | DC | 4000 | No | |
| | er T1 primary winding to secondary | DC | 4000 | No | |
| Transform sources) | er T1 core to secondary winding (All | DC | 4000 | No No | |
| One layer of insulation tape of transformer T1 (All sources) | | DC | 4000 | No | |
| Routine T | ests: | VITE MALIE WALLE V | ing any any | 10, 2, | |
| Alit WILL | MULL MULL MULL MINE MINE | T It It | TER STER OUTER | MILIE WAL | |
| Suppleme | ntary information: | | | | |

Supplementary information:

Core of transformer T1 was considered as primary part. Test after humidity treatment, heating test, and for unit primary to secondary, primary to plastic enclosure electric strength after each fault condition test. All source means all materials listed in table 4.1.2 are considered.



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|-----------|--------------------|---------------------|-----------------|-----------|---------------|
| Clause | Requirement + Test | LEE MUTTER MILL MAN | Result - Remark | alt de | Verdict |

| 5.5.2.2 | TABLE | ABLE: Stored discharge on capacitors | | | | | | |
|--------------|-------------|--------------------------------------|----------------------------------|-----------------|------------------------------|-----------|--|--|
| Location | | Supply voltage (V) | Operating and fault condition 1) | Switch position | Measured voltage (Vpk) | ES Class | | |
| at at | , let | LIEK NIFER MITE | white -we a | . 7n. | 1 - A | - A | | |
| Mur | 11/2 1 | | at "the od | Elk With M | The Marie A | Vr21/2 | | |
| TEK - | LIER W | TER MALTE MALTE | Nr. 14 14 | - 7 | et tit . | TEK -JEK | | |
| Supplement | ary inforn | nation: | | | | | | |
| X-capacitors | s installed | for testing: | Z | at at | - 18th 5th | J. Cliffe | | |
| ☐ bleeding | resistor r | ating: | | | | | | |
| ☐ ICX: | | | | | | | | |

| 5.6.6 | 5.6.6 TABLE: Resistance of protective conductors and terminations | | | | | | | | | |
|-------------|---|--|-------------|------|----------------|--|--|--|--|--|
| Location | | Test current Duration Voltage drop (A) (min) (V) | | • . | Resistance (Ω) | | | | | |
| 10, 10, | | et set site | WILL WILL M | ir. | 'n'' ' | | | | | |
| Supplementa | ary information: | | | | | | | | | |
| at at | N / / / / / / / / / / / / / / / / / / / | THE MALL | 7 J | In a | , yt | | | | | |

| 5.7.4 | TABLE: Ur | E: Unearthed accessible parts | | | | | | |
|---------------------------|-----------|--|------------------|---|---|---------------|-------|--|
| Location | | perating and | Supply | et of the | Parameters | | ES | |
| WALTER WALTER | fau | ult conditions | Voltage (V) | Voltage (V _{rms} or V _{pk}) | Current (A _{rms} or A _{pk}) | Freq. (Hz) | class | |
| LIEK WALTER | WALTER WA | Normal | 264Vac / 60Hz | The The | 0.216mApk | 60 | ES1 | |
| ex whitex wh | 01 | Abnormal: verload (See le B.3, B.4 for details) | 264Vac / 60Hz | LEK MUTTER MUT | 0.232mApk | 60 | ES1 | |
| Output termina " to earth | OC con | ngle fault: SC/ (Refer to fault dition on table 3, B.4, output shutdown) | 264Vac / 60Hz | White whitek | 0.232mApk | 60 | ES1 | |
| MALIEK WALTE | (F con | ngle fault: SC Refer to fault dition on table 3.3, B.4, F1 open) | 264Vac / 60Hz | es une un | 0.232mApk | 60 | ES1 | |



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|--------------|------------------------------------|--|-----------------|--|-----------------------------------|--------------------------|------------------------------|----------------------|-----------------|
| | | | | | EN IEC 62 | 368-1 | | | |
| Clause | Red | equirement + Test | | | Res | | Result - Remark | d a | Verdict |
| whi. | 14. | 4, | | | | y July | MITE MITE | white mi | Mar |
| Supplemer | ntary i | nform | ation: | S.C. | MULTER WILL | 2/1, , | 7 × | A 25 | - KEH |
| Abbreviation | on: SC | C= sho | ort circuit; OC | = op | en circuit | | | | |
| LIEK WIL | er Er | LIET | Muric Muri | | ALL CALL | A 5 | EK STEK SY | TEX MITER | Write AV |
| 5.7.5 | TA | ABLE: Earthed accessible conductive part | | | | | | | N/A |
| Supply vol | tage (| V) | | : | 4 A 3 | EX LIEK | NITER INLIE | WILL WIL | |
| Phase(s): | | | | المالية المالي | [] Single Phase | ; [] Three F | Phase: [] Delta | [] Wye | × |
| - T | | -6,1 | stem | | □TN □ | TT. | TIT WALL | min and | |
| Location | | | | | Fault Condition 60990 clause 6 | | Touch current (mA) | Comr | nent |
| FER OLIF | set outer with white wint of | | | | · · · | A I | t z et k | the Clerk - Clerk in | |
| Supplemer | ntary I | nform | ation: | | | | | | Charles Control |
| WALL . | Mr. | an | 2/1/2 | 10, | | ek Jek | ALTER ARTIE | WALLE WAL | one. |
| 101 | J. | | - 10 (E) | - (1° | There were | All . | 10 m | <u></u> | |
| 5.8 | TA | BLE: | , | - m() | uard in battery | 200 | <u></u> | Arris Mari | N/A |
| Location | ation Supply Operation voltage (V) | | Ope | erating and fault condition | Time (s) | Open-circuit voltage (V) | Touch current (A) | ES Class | |
| A 18 | - J- \ | | | Lie "Ur. | 1 | 3 + 3 | | | |
| Supplemer | ntary i | nform | ation: | | | | | | |
| TEX | J. TE | | IER WITE | ar Li | The The | -20 | * ** | Alt A | 1 JES |
| ans 1 | 20 | 40 | | | The The | L. C. | and the second | The Me. | 40 |
| 6.2.2 | _ TA | BLE: | Power sour | ce c | ircuit classifica | tions | 1 1 | et et | Р |
| Location | | Operating and fault condition | | lt | Voltage (V) | Current (A | Max. Power ¹⁾ (W) | Time (S) | PS class |
| + 11+ | | Normal condition | | | 5.12 | 1.2 | 6.144 | 3s | PS1 |
| Outpu | JUNE T | Signal fault (DB1 SC) | | , J.E | × no* mui | 0* | 0* | 38 | PS1 |
| | | Signal fault (EC1 SC) | | XE t | 0* | 0* | 0* | 38 | PS1 |
| Supplemer | ntary i | nform | ation: | | | I | | .03 | |

Abbreviation: SC= short circuit; OC= open circuit

¹⁾ Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

^{*} FR1 open, no hazard.

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| Clause | Requirement + Test | LIE MALL MAN WAY | Result - Remark | Verdict |

| 6.2.3.1 | TABLE: Determi | nation of Arcing PIS | 20, 20, | | P- |
|--------------------------|----------------|--------------------------------------|----------------------------|------------------|-------------------------|
| Location | | Open circuit voltage after 3 s (Vpk) | Measured r.m.s current (A) | Calculated value | Arcing PIS? Yes / No |
| All primary circuits/com | ponents | TEX MITE | MULTER WALTER WE | LIF WALL WALL | Yes (declaration) |

Supplementary information:

All primary and secondary circuit are considered as arcing PIS

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{ms}) is greater than 15.

| 6.2.3.2 TABLE: Determ | nination of resistive PIS | Mr. Mr. A. | P |
|---------------------------------|-------------------------------|---------------------|-------------------------|
| Location | Operating and fault condition | Dissipate power (W) | Arcing PIS? Yes / No |
| All primary circuits/components | E RITER WHITER WHITER WHITE | EX WHITE WELL MULL | Yes (declaration) |

Supplementary information:

All primary and secondary circuit are considered as resistive PIS

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

| | | | | . Jt . |
|--------------|----------------|-----------------------|-------------------------------------|--|
| ırer | Lamp type | Explosion method | Longest axis of glass particle (mm) | Particle found beyond 1 m Yes / No |
| et s | + LIEY MITER W | The Maria Mur. | mr -m | 7 - 74 20 - 2 |
| information: | | | | |
| | information: | - JEH JO - JEH MITE W | - TEX TOTAL TOTAL TOTAL TOTAL | glass particle (mm) |

| 9.6 TABLE: Temperature measurements for wireless power transmitters | | | | | | | | |
|---|---------------------------------|--|----------------------------------|---------------------------------------|-------|-----------------------------|--|--|
| Supply voltage (V) | :: | | TEK TIEK | NITER MILIER MILITER | WILL. | _ | | |
| Max. transmit pow | er of transmitter (W) | | . 14 1 | * # # | Jet. | _ | | |
| Foreign objects | w/o receiver and direct contact | | h receiver and direct contact | with receiver and at distance of 2 mm | | ceiver and at ce of 5 mm | | |



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|-----------|----------------------------|-----------------|-----------------|---------|
| il water | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | THE MILE WE WAS | Result - Remark | Verdict |

| | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | |
|----------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|-----------------|--|
| at 18 18 | t TIER | NITE N | LIE WALL | 210 | 4, , | | t st | A CO | |
| Supplementary information: | | | | | | | | | |
| at all the | J. C. C. | Line and | Me | 10, 1 | | | J. | At All | |

| 5.4.1.4, 9.3, B.1.5, B.2.6 | rature measu | reme | nts | TEK OLTER | - MITEL | LIEK WALT | P |
|---|---------------------|---------|---------------------|----------------|-----------------|----------------------------------|-------------------------------|
| Supply voltage (V) | | .: • | 90Vac/ 50Hz | 90Vac/ 50Hz | 264Vac/ 50Hz | 264Vac/ 50Hz | _ |
| Ambient temperature during to | .: | 25.0 | 25.0 | 25.0 | 25.0 | _ | |
| Maximum measured temperature <i>T</i> of part/at: | | | | Т(| °C) | | Allowed T_{max} (°C) |
| - all all the self | | | Horizontal | Vertical | Horizontal | Vertical | 20, |
| Plug holder (external) | | 60.2 | 63.0 | 62.2 | 60.2 | 120 | |
| Plug holder (interior) | ÷ ,, | 64.6 | 67.0 | 66.0 | 64.5 | 120 | |
| EC1 body | | 87.2 | 89.8 | 91.8 | 88.4 | 105 | |
| EC3 body | 11.V | 79.3 | 80.4 | 85.0 | 82.1 | 105 | |
| L1 winding | 50 | 78.8 | 79.9 | 80.9 | 78.4 | 130 | |
| T1 winding | The William 1 | 11. | 97.2 | 98.3 | 104.6 | 100.3 | 110 |
| T1 core | t tet a | 75.4 | 91.1 | 92.6 | 98.3 | 94.5 | Ref. |
| CY1 body | mr. m | | 82.9 | 83.7 | 88.4 | 85.3 | 125 |
| PCB near DB1 | SLIFE MILTE | 21/ | 91.3 | 93.5 | 89.7 | 87.1 | 130 |
| PCB near U1 | 211 | | 102.9 | 104.1 | 108.6 | 105.3 | 130 |
| PCB near D3 | LIERWALTE | 20 | 103.9 | 106.5 | 113.8 | 108.8 | 130 |
| Enclosure inside (Top, near T | 1) | المالية | 81.6 | 82.5 | 86.8 | 83.8 | 120 |
| Ambient | Mur. 21 | | 45.0 | 45.0 | 45.0 | 45.0 | NITEE. |
| Enclosure outside (Top, near | (E) | 59.2 | 53.8 | 58.0 | 54.3 | 77 | |
| Ambient | | | 25.0 | 25.0 | 25.0 | 25.0 | Maria un |
| Temperature T of winding: | t ₁ (°C) | ι (Ω) | t ₂ (°C) | $R_2(\Omega)$ | T (°C) | Allowed T _{max} (°C) | Insulation class |
| T at at at. | SER - WILL | JA-LITY | ang | 1/100 -1/11. | 14. | | * - * |

Supplementary information:

- 1. Tma should be considered as directed by appliable requirement.
- 2. Tma is not included in assessment of Touch Temperatures (Clause 9).



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| | | . aga . a a. | | | 4 AV |
|-----------|--------------------|----------------|-----------------|--------|---------|
| VILL MUTT | | EN IEC 62368-1 | | | MULL |
| Clause | Requirement + Test | MUEL AND AN | Result - Remark | at All | Verdict |

- 3. The temperatures were measured under worst case normal mode as described in B.2.5 at voltages as above.
- 4. With a specified maximum ambient temperature and test temperature of 45°C, the maximum permitted temperatures are calculated as follows:
 - Winding components (providing safety isolation): Class 130 (B) Tmax = 120°C 10°C = 110°C.
- 5. When tested for touch temperature limit of clause 9, the ambient was conducted between 20-30°C.
- 6. Horizontal means the adaptor is plugged into horizontal socket-outlet; Vertical means the adaptor is plugged into vertical wall socket-outlet.

| B.2.5 | 7 | TABLE: In | put test | E. WILL | mer m | 20, 2 | st of | P |
|-------|----|-----------|--------------|---------|-------------|---------|------------|------------------|
| U (V) | Hz | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status |
| 90 | 50 | 0.126 | 70 TO 12 | 6.9 | 4. | F1 , | 0.126 | Max. normal load |
| 90 | 60 | 0.128 | et et | 6.9 | EX WITH AND | F1 | 0.128 | Max. normal load |
| 100 | 50 | 0.115 | 0.15 | 6.8 | J. A. | - F1 | 0.115 | Max. normal load |
| 100 | 60 | 0.118 | 0.15 | 6.8 | Mur Mur. | F1 | 0.118 | Max. normal load |
| 240 | 50 | 0.065 | 0.15 | 7.2 | TEX- TEX | F1 | 0.065 | Max. normal load |
| 240 | 60 | 0.065 | 0.15 | 7.2 | | F1 | 0.065 | Max. normal load |
| 264 | 50 | 0.062 | 7 / A | 7.2 | CIEN CIEN | F1 | 0.062 | Max. normal load |
| 264 | 60 | 0.063 | / <u>(</u> / | 7.3 | | F1 | 0.063 | Max. normal load |

Supplementary information:

The maximum measured current under rated voltage did not exceed 110% of the rated current.

| B.3, B.4 TAB | LE: Abnormal | operating | and fault | condition t | tests | THE MITTER WITE WILL P W |
|---|---|--------------------------|--------------|-------------|-----------------------------------|---|
| Ambient temperat | ure T _{amb} (°C) | | | - N | 25°C, if n | ot specified — |
| Power source for EUT: Manufacturer, model/type, outputrating: | | | | | | min min m — |
| Component No. | Condition | Supply voltage (V) | Test time | Fuse no. | Fuse current (A) | Observation |
| TAN TAN TEK WALTER WALTER | OL' LIET WALTER WALTER WALTER WALTER ALTER WALTER | 264 | 11min | FR1 | 0.063 → 0.068 → 0.001 | Unit normal load, Transformer output overload 1.2A Max, over 1.2A shut down, immediately, no hazard. No damage, no hazard Touch voltage (+ to -): 5.12V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to |



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| TCPOIL NO. | . WIT 22D 102141311001 | .0" | 1 agc 7 + 01 0 + | | | 4 |
|------------|------------------------|-----|------------------|-----------------|------|---------|
| The White | | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | | NUTT ON THE | Result - Remark | 1 10 | Verdict |

| Whitek Whitek whi | NITER WALTER | | WALTER V | on the | SLIEK WAS | earth): 0.08mApeak. T1 winding:116.0°C T1 core: 109.8°C PCB near U1: 122.3°C Ambient: 45.0°C Enclosure outside (Top, near T1): 66.1°C |
|-------------------|--|--|--|--|---|---|
| Output | MALIER WALTER | 264 William Line Control Contr | 2H 57min | FR1 CONTEST OF THE PROPERTY OF | 0.063 → 0.068 → 0.001 | Ambient:25.0°C Unit normal load, Transformer output overload 1.2A Max, over 1.2A shut down, immediately, no hazard. No damage, no hazard Touch voltage (+ to -): 5.12V. Touch current (output +/- to earth): 0.232m Apeak; |
| Whitek whitek | | Intres on | TER WINE WALTER WALT WALTER WALT WALT WALT WALT WALT WALT WALT WALT WALT | | NITER WAS | Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. T1 winding:112.0°C T1 core: 104.3°C PCB near U1: 119.7°C Ambient: 45.0°C Enclosure outside (Top, near T1): 64.0°C Ambient:25.0°C |
| Output | EX NOTEX WILLEY | 264 | 10 mins | FR1 WALTER W | | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| DB1 | SC AND | 264v | 10min | FR1 | O OU SEEK WALTER WALTER WALTER | Fuse FR1 opened immediately. No hazard. NT, NC, NB. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |



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| report No. | . WII ZZD 10Z 141311001 | . 6 | 1 age 75 of 04 | <u> </u> | | - A V |
|------------|-------------------------|-----|----------------|-----------------|------|---------|
| ALL WALL | | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | | West Mr. M. | Result - Remark | 1 10 | Verdict |

| 2/1, 21, | | | J 3 | The state of | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | VI, Mr. Mr. Mr. |
|-----------|--|------|-------|---|--|--|
| EC1 | ntres SC res | 264v | 10min | FR1 | 0 | Fuse FR1 opened immediately. No hazard. NT, NC, NB. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| T1 pin1-2 | EX SCIENTIFE WALTER WALTER WALTER WALTER WALTER WALTER WALTER | 264v | 10min | FR1 MILITER WALTER WALTER WALTER WALTER | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| T1 pin3-4 | SC SC STATE OF THE STATE OF THE SC | 264v | 10min | FR1 | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| T1 pin5-6 | SC LINK INTER WALTER INTER WALTER | 264v | 10min | FR1 | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| U1 pin1-7 | SC WALTER WALTER | 264v | 10min | FR1 WALE | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic |



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|-----------|----------------------------|------------------|-----------------|---------|
| The WALL | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | LIE WILL WE WILL | Result - Remark | Verdict |

| LIEK WALTER | ALTER WALTER | Willey Mil | 'un | 211. | Tel. | enclosure with metal foil to earth): 0.08mApeak. |
|-------------|--|------------|-------|------|-------|--|
| U1 pin4-5 | SC | 264v | 10min | FR1 | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| EC3 | SC INDICATED IN THE COMMENT OF THE C | 264v | 10min | FR1 | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |
| R7 | SC antific antific etter antific | 264v | 10min | FR1 | 0.001 | Unit shutdown immediately, and recoverable, no hazard exist. Touch voltage (+ to -): 0V. Touch current (output +/- to earth): 0.232m Apeak; Touch current (plastic enclosure with metal foil to earth): 0.08mApeak. |

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

- 1) S-C: Short-circuited; O-C: Open-circuited; O-L: Overloaded.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) The overload condition for transformer is applied according to annex G.5.3.3.

Winding Limit for winding of transformer T1: 175°C -10°C=165°C

Limit temperature:

Plastic material: 87°C,

5) NC - Cheesecloth remained intact, NT - Tissue paper remained intact, NB - No indication of dielectric



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| -toport rtor | 1 1111 225 1021 11011001 | r ago i i oi o i | | | |
|--------------|--------------------------|------------------|-----------------|------|---------|
| The Muri | | EN IEC 62368-1 | | | |
| Clause | Requirement + Test | in Muris Mr. M. | Result - Remark | et e | Verdict |

breakdown.

6) Tests were performed on product with each source of fuse listed in table 4.1.2.

| M.3 | TABLE: Pr | otection circu | iits f | or batterio | es provid | ed v | vithin | the eq | uipment | N/A | | |
|------------------|-------------------|-------------------------|----------------------------------|--------------|--------------------|-------------|-----------------------|---------------|-------------------------------|----------------------|--|--|
| Is it possible t | o install the l | battery in a rev | erse | polarity p | osition? | : | Men | " Pales | - 44 | 2, - | | |
| | | | | | CI | nargi | ng | | | | | |
| Equipment S | pecification | | Vo | ltage (V) | | | | | Current (A) | | | |
| | | a A | | ek JE | k KLITEK | 10 | iter with white white | | | | | |
| | | | Battery specification | | | | | | | | | |
| | | Non-recharge | | | Rech | nargeab | le batteries | | | | | |
| | | Discharging | ~ | | (| Charging | | | Discharging | Reverse | | |
| Manufactu | Manufacturer/type | | current (A) charging current (A) | | Voltage | (V) | Current (A) | | current (A) | charging current (A) | | |
| m. m | 4 | | | √# .√ | المارية المارية | اه. اله. | U. | 2000 | mr - m | 2/1 | | |
| Note: The test | s of M.3.2 ar | e applicable or | nly w | hen above | appropria | ate d | ata is | not ava | ilable. | | | |
| Specified batt | ery temperat | ture (°C) | | | | 4عاله | 12 | Vr. 1 | \overline{h} \overline{h} | | | |
| Component No. | Fault condition | Charge/ discharge mo | ode | Test time | Temp. (°C) | | rrent (A) | Voltag (V) | e Obse | ervation | | |
| ille white w | -71/ | 6-1- | | J. | 10 1 | 9 | | | A COLITER N | ALL WALL | | |
| Supplementar | y information | n: | | | | | | | | | | |
| | | rcuit; OC= ope | | | | | | ; NS= n | o spillage of | liquid; NE= | | |

| 400 | TABLE: battery | Charging sa | feguards for | equipment co | ontaining a s | secondary lithiur | n N/A | |
|--|-------------------|---------------------|----------------------|------------------------|---------------|-------------------|-------|--|
| Maximum spe | ecified ch | arging voltage | e (V) | 111, 111 | : - " | et let | , – | |
| Maximum spe | ecified ch | arging current | t (A) | | : 40, 1 | ve, me m | _ | |
| Highest specified charging temperature (°C): | | | | | | | | |
| Lowest specif | ied char | ging temperati | ure (°C) | Vr. Mr. | 7 - 7 | t let let | | |
| Battery | | Operating | | Measurement | | Observation | | |
| manufacturer/ | 'type | and fault condition | Charging voltage (V) | Charging current (A) | Temp. (°C) | | | |
| -muri mu | " "n | 211. | 14 - Alt | rite l nite | t nizek ni | TER WALLE MAY | MULL | |
| Supplementar | ry informa | ation: | | | | | | |



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|-----------|-----------------------|------------------|-----------------|---------|
| The WALL | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | ELLE MULLI MU MI | Result - Remark | Verdict |

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

| Q.1 | TABLE: Circuits inter | ABLE: Circuits intended for interconnection with building wiring (LPS) | | | | | | | |
|---------|------------------------|--|-----------|---------------------|-------------|--------|-----|--|--|
| Output | Condition | U _{oc} (V) | Time (s) | I _{sc} (A) | | S (VA) | | | |
| Circuit | Condition | O _{oc} (V) | 11116 (5) | Meas. | Limit | Limit | | | |
| Output | Normal conditions | 5.16 | 5 | 1.2 | W 8 W | 6.144 | 100 | | |
| Output | Single fault (R7SC) | 0* | 5 | 0* | NITE'S MILE | 0* | 100 | | |

Supplementary Information:

SC=Short circuit; OC=Open circuit.

^{*:} Unit shutdown immediately and recoverable, no hazard.

| T.2, T.3, T.4, T.5 | TABLE: Steady force test | | | | | | | |
|---------------------------------|--------------------------|--------------------|--------------------|--------------|----------------------|--|--|--|
| Part/Locatio n | Material | Thickness (mm) | Probe | Force (N) | Test Duration (s) | Observation | | |
| Internal components (T.2) | | TEL | Figure V.2 | 10 | 5 STEEL WILLIE | No reduction the clearances and creepage distances | | |
| Enclosure bottom (T.4 | Plastic* | See table 4.1.2 | ئارى كۆ ئارى كۆ | 100 | IEK 5 EK | No cracking, no damage. | | |
| Enclosure top (T.4) | Plastic* | See table 4.1.2 | | 100 | 5. | No cracking, no damage. | | |
| Enclosure side (T.4) | Plastic* | See table 4.1.2 | - CA | 100 | STEE STATE | No cracking, no damage. | | |

*Tests were performed on product with each source listed in table 4.1.2.

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| report No | W 11 22D 102 14 19 1 100 1 | Fage 7 9 01 04 | 4 - | A RO |
|-----------|----------------------------|-----------------|-----------------|---------|
| IL WILL | | EN IEC 62368-1 | | |
| Clause | Requirement + Test | THE MULL MY MIN | Result - Remark | Verdict |

| T.6, T.9 | ABLE: Impa | ct test | | N/A |
|---------------|------------|----------------|----------------|---------------------------------|
| Location/Part | Material | Thickness (mm) | Height (mm) | Observation |
| r, on a | 70 | * - * * | 18k- 15 | of write write with min with w |
| th 100 m | SER MITE | WILL AVER A | Vr20 | A SH THE THE LIFE OU |
| 10, - 10, | | # # . | TEK TOTE | MULLE MULL MULL - MULL AND MILL |

*Test was performed on product with each source listed in table 4.1.2.

| Material Plastic* | Thickness (mm) See table 4.1.2 | Height (mm) | Observation No cracking, no damage. |
|----------------------|--------------------------------|-------------|--------------------------------------|
| Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |
| | | | the my me |
| Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |
| Plastic* | See table 4.1.2 | 1000 | No cracking, no damage. |
| | Plastic* | at III INT | A ST NE BY LIFE F |

| MILL | 1/1/20 | 2000 2 | L 70, | * 5 | 20 | | LEF. | 50 | , NITE | N/CIT | Merc |
|------|--------|--------------|-------------|----------|----|-----|------|----|--------|-------|------|
| T.8 | T. | ABLE: Stress | relief test | THE WILL | m. | 'an | . 4 | | 70, | ×+ | Р |
| | | | | Oven | | | | | | | |

| | Location/Part | Material | Thickness (mm) | Oven Temperatur e (°C) | Duration (h) | Observation |
|--------|---------------|----------|-----------------|------------------------------|-----------------|---|
| y S | Enclosure | Plastic* | See table 4.1.2 | 97°C | 7h | No distortion, no softening, no cracking. |

Supplementary information:

*Test was performed on product with each source listed in table 4.1.2.

| X | TABLE: Alternative method for determining minimum clearances distances | | | | | |
|-------------|--|-----------------------------|---------------------|---------------------|--|--|
| Clearance d | istanced between: | Peak of working voltage (V) | Required cl (mm) | Measured cl (mm) | | |
| E Jet | TEK JEK NJ | EX WILL THE ME | 21/2 72/1 20 | at the set | | |
| Supplementa | ary information: | | | | | |
| See Table 5 | .4.2, 5.4.3 | White Mr. M. | 70 A W | LEK TEK TEK | | |



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| report No | W 11 22D 102 14 19 1 100 1 | F age 60 01 04 | | |
|-----------|----------------------------|-----------------|-----------------|-----------|
| The WALL | | EN IEC 62368-1 | | WELL MUTE |
| Clause | Requirement + Test | LIE WILL WAS AN | Result - Remark | Verdict |

| 4.1.2 T | ABLE: Critical comp | onents informati | on | | Pt Pt |
|-------------------------------|---|----------------------|---|-------------------|-------------------------------------|
| Object / part No. | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ |
| Enclosure (Plug holder) | Sabic Innovative Plastics B V | 940(f1) | V-0, 120°C min. thickness 2.0mm | UL94 | UL E45329 |
| PCB | Tian Feng Wei Electronic Co., Ltd | T-V0 | V-0,130°C | UL796 | UL E340994 |
| Alternative | Interchargeable | interchangeable | Mn V-1,130°C | UL796 | UL |
| Fuse resistor (FR1) | Shenzhen Great Electronics Co., Ltd | RXF-1W | 4.7R, 1/4W | UL 1412 | UL E301541 |
| Bridge Rectifiers (BD1) | CENPAK ELECTRONICS | SMD Bring ABS210, | 2A1000V | EN IEC 62368-1 | Tested with appliance |
| Transformer(T 1) | Shenzhen Baijunda Electronic Co., Ltd | T-18W-25 | Class B | EN IEC 62368-1 | Tested with appliance |
| -Bobbin | Chang Chun Plastics Co Ltd | T375J | Phenolic,V-0, 150°C Thickness 0.75mm Min. | UL94 | UL E59481 |
| -Tape | JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD | PZ TE MILITER IN | 130°C | UL510 | UL E165111 |
| -TUBE | CHANGYUAN | CB-TT-T | 200°C | UL 224 | UL E180908 |
| -TRIPLE WIRE | SHENZHENDAR UN SCIENCE ANDTECHNOLO GY CO LTD | DRTIW-B, DRTIW-F | 130°C, reinforced insulation | IEC/EN 60950-1 | UL E33584° VDE 40032470 |
| -WIRE | SHANTOU SHENGANG | UEW/155 | 155°C | UL1446 | UL E239508 |
| Alternative | SHANTOU SHENGANG | XUEW orQA-x | 155°C | UL1446 | UL E324388 |
| Y-capacitor | Macrofar Electronics Technology (HK) Limited | XAY/HY | Max.1000pF, Min.250VAC, 125°C, Y1 type | EN 60384- 14 | TUV R50326364 UL E481054 |

Supplementary information:

Supplementary information: ¹⁾ License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



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| | A | 0.90 0.00.0 | | | | | |
|----------|----------------------|--------------|-----------------|---------|--|--|--|
| WALTE WA | EN 50075 (partially) | | | | | | |
| Clause | Requirement – Test | Will Muli My | Result – Remark | Verdict | | | |

European Plug Test Report

| 6 | Marking | MULL MULL MULL MILL MILL | Р |
|--------|---|---|--------|
| WILLE | Appliances shall be marked as follows: | Incorporated with Power adapter | _ |
| WITER. | Rated current in amperes (A) | Refer to marking label of final appliance. | N/A |
| JEK . | Rated Voltage in volts (V) | As above | N/A |
| 2, | Symbol for nature of supply (~) | As above | N/A |
| WILL | Name, trade mark or identification mark of manufacturer or responsible vendor | EU plug of Power adapter) for model: ILINC65W | Р |
| WILLE | Type reference | Incorporated plug portion of adaptor | UN P W |

| 7. | Dimensions | Will Aller | H. A. A. | 7,6 | AFP A | |
|-------------|------------------------------------|-------------------------|------------------------|--------|-----------|--|
| , m | Plugs shall comply with Standard S | Sheet 1 | (see attached drawing) | | 700 | |
| WALTE | Between two pins (pin base) | 18.0 - 19.2 mm | 18.03 | mm | P. P. C. | |
| MALTER | Between two pins (pin top) | 17.0 - 18.0 mm | 17.60 | mm Tex | AND AND | |
| JE# | Diameter of pin (metallic part) | 4 ^{±0.06} mm | 3.95 | mm | JOP J | |
| ir, | Diameter of pin (pin base) | Max. 4.0 mm | 3.95 | mm | Р | |
| نامان كليا | Diameter of pin (middle part) | Max. 3.8 mm | 3.49 | mm | P | |
| | Pin length | 19 ^{±0.5} mm | 18.53 | mm | P | |
| MULTE | Length of pin except metal part | 10 ^{+1/-0} mm | 10.13 | mm | J/P | |
| TEX | Shape of pin top | m m | Round shape | - LEX | P | |
| 3 | Length of plug base | 35.3 ^{±0.7} mm | 35.15 | mm | Р | |
| 16th 410 | Width of plug base | 13.7 ±0.7 mm | 14.02 | mm | ITE PALTE | |
| ر بر د ر | Diagonal dimension of plug base | 26.1 ^{±0.5} mm | 26.25 | mm | P | |
| July Co | within a distance of 18mm | ≥18 mm | 19.746 | mm | P | |
| JE* | Angle | 45° | 45 | 0 | Р | |
| 2/12 | Radius | R 5 -0, +1 mm | 5.49 | mm | Р | |



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|----------------------|--------------------------------|---------------------------------|-----------|--|--|--|
| EN 50075 (partially) | | | | | | |
| Clause | Requirement – Test | Result – Remark | Verdict | | | |
| Vr. Alex | 24, 24, 2 | L /1 LITER OLITE ONLY ORLY WALL | 11/2 11/2 | | | |
| 8. | Protection against electric si | hock | TEN PURE | | | |

| 8. | Protection against electric shock | THE POTEN | | |
|-----|--|---|-------|--|
| 8.1 | Live parts of the plug not accessible (standard test finger) | Protected by enclosure of the equipment | Р | |
| 8.2 | No connection between one plug-pin and socket outlet | Checked by gauge of Fig.4 | WP V | |
| 8.3 | External parts of insulating material | External parts except pins are insulating material. | W P W | |

| 9 | Construction | at let let let s | EF PIET |
|-------|---|--|-----------|
| 9.1 | Plugs not replaceable | Incorporated with adaptor | Р |
| 9.2 | Switches, fuses, lampholders not incorporated | Not incorporated | un'P un |
| 9.3 | Solid pins | (see clause 13) | Р |
| 11 M | Adequate mechanical strength | As above | Mr. Ban |
| 9.4 | Pins locked against rotation | (see clause 13.1 and 13.4) | TEN P TEN |
| NATE! | Adequate fixed into the body | Each pin shaft is designed with ridges to lock into the pin holder | P P |
| 9.5 | Kind of connection | Leads are soldered to the plug pin terminal | P.F. |
| 9.6 | Easily to be withdrawn from socket-outlet | The equipment provides sufficient gripping surface | P |

| 10 | Resistance to humidity | at at let the star | P.LE |
|----|----------------------------------|--------------------|------|
| | -Humidity treatment for 48 hours | Test with adaptor | Р |

| 11 | Insulation resistance and electric strength | in an an an | Р |
|------|---|---|----------|
| 11.1 | Insulation resistance (500 V, min 5 MΩ) | Pins against body: $100MΩ$ Each pin against body: $100MΩ$ Required: $7MΩ$.Pin against Pin: $100MΩ$ Required: $2MΩ$ | TEE UNIT |
| 11.2 | Electric strength (2,000 V) | Pins against body: 4,200V Each pin against body: 4,200V Pin against Pin: 2,100V | P P |

| 13 | Mechanical strength | writer white mail wat wat | P |
|------|------------------------------|---|--------|
| 13.1 | Pressed with 150 N for 5 min | No deformation or deviation from the dimensions | TET PA |



| EN 50075 (partially) | | | | |
|----------------------|--|---|---------------------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| 10. Apr. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | CLIEB INCIDE WALL VINE V | he an | |
| 13.2 | Tumbling barrel | Test according to clause 24.2 of DIN VDE 0620-2-1 and also pass the test according to DIN VDE 0620-101:1992 clause 7, figure 2. Weight of adapter: 21g Number of falls: 1000 times | TEX PITE | |
| | No damages after the test | ing my my m | Р | |
| TE WILL | Requirements of clause 7 and 8.2 still fulfilled | Deformations allowed according to the equipment standard | KLI PUNLI EF TEK | |
| 13.3 | Rubbing test of plug-pins: 10,000 cycles, 4 N | See test below | Р | |
| LITER | No damage of the pins | No visible damage | Р | |
| 13.4 | Pull test at 70°C with 40 N | See test below | Р | |
| Life on | Pins not more than 1 mm displaced | Displacement: 0.5mm | mil P m | |

| 14 | Resistance to heat and to ageing | liter anite white white we | Р |
|----------|--|---|-----------|
| 14.1 | Sufficient resistant to heat | Incorparated with adaptor | P |
| 14.1.1 | After 1 h in heating cabinet at 100°C no damage shown | Test with adaptor | P |
| 14.1.2 | After 1h in heating cabinet at 80°C and a force of 20 N through the jaws no damage shown | Performed a 125°C ball pressure test at the material of plug portion which maintains live part in position.Max. 1.05mm measured after 1 hour | NITER WAL |
| 14.2 | Aging test | See test below | Р |
| Jet | - at 70°C for 168h | 70°C for 168h applied. | P |
| 1/1/2 | - at room temperature for 96h | Mer me me me | Р |
| NLTER NA | No traces of cloth at a force of 5N | Material does not soften | onli P on |
| . L . | No damage leads to non-compliance | No visible damage | Р |

| 15 | Current-carrying parts and connections resistance to heat and to ageing | | P |
|--------|---|---|--------------|
| 15.1 | Connections withstand the mechanical stresses occurring in normal use | See below | P |
| 15.2 | Contact pressure not through isolating material | Complied | ALL B ALL |
| 15.3 | Current carrying parts of copper | Copper content:62.2% No rolled sheet used | UNLIE P WALT |
| EK WIT | No electroplated coating when part is subjected to mechanical wear | No electroplated coating | JEX PITER |

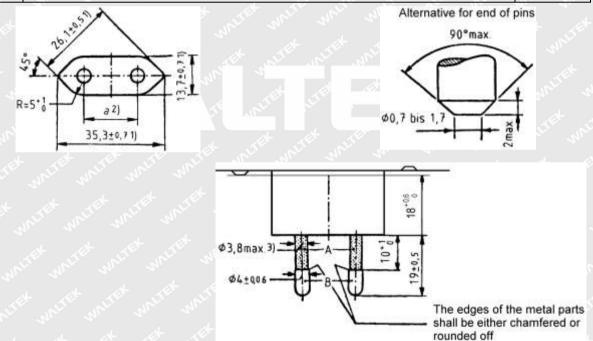


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| | EN 50075 (partially | ") item street write white | |
|----------|---|----------------------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| ek unite | Other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion | No such materials used. | N/A |

| 16 | Creepage distances, clearances and distances | ces through insulation | Р |
|-------|---|------------------------|---|
| LITER | Live parts of different polarity: 3 mm | >3mm | P |
| TEX- | Through insulation between live parts and accessible surfaces: 1.5 mm | >1.5mm | P |

| 17 | Resistance of insulating material to abnormal heat and fire | | Р |
|--------|--|---|-----|
| MULLEX | Insulating material not unduly affected by abnormal heat and by fire | Glow wire test performed on plug portion with: 750°C Other parts test with: 650°C | PA |
| 7 | Dimensions | a state of the | U P |



A = Insulating collar

B = metal pin

- These dimensions shall not be exceeded within a distance of 18mm from the engagement face of the plug.
- Dimension a is:
 - 18mm to 19.2mm in the plane of the engagement face
 - 17mm to 18mm at the ends of the pins
- This dimension may be increased to 4mm within a distance of 4mm from the engagement face of the plug.



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Photo Documentation



Figure 1 Overall view for MO8827



Figure 2 Overall view for MO8827



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Photo Documentation



Figure 3 Overall view for MO9785



Figure 4 Overall view for MO9785



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Photo Documentation

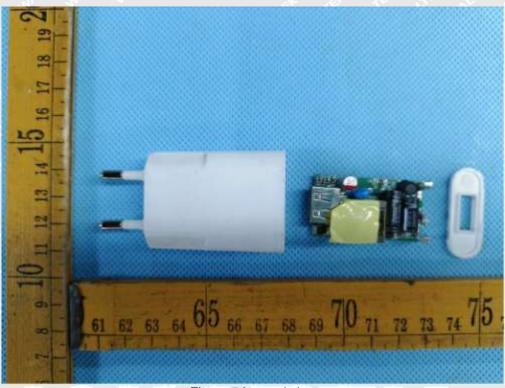


Figure 5 Internal view

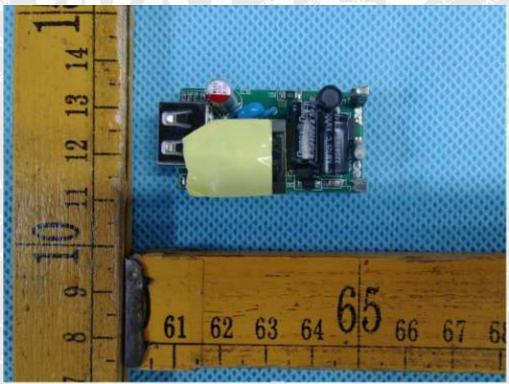


Figure 6 PCB view



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Photo Documentation

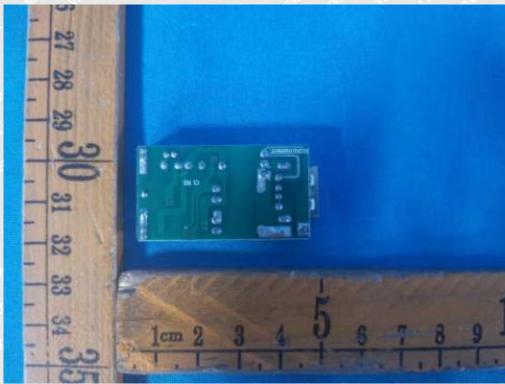


Figure 7 PCB view



Figure 8 Transformer view



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Figure 9 Transformer view

===== End of Report =====