



TEST REPORT

Reference No	٠.,	WTF24D03057526Y

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

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

Hong Kong

Manufacturer..... : 114746

Address.....: : --

Product.....: Wireless bamboo speaker

Model(s)..... : MO6385

Total pages..... : 67 pages and 6 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.... : 2024-03-21

Date of Test..... : 2024-03-21 to 2024-04-03

Date of Issue..... : 2024-04-07

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:

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Compiled by:

Approved by:

Jason Huang / Project Engineer

Jason Huany

Almon Zhao / Designated Reviewer



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Test item description: Wireless barn	boo speaker
Trademark MOB	
Model and/or type reference MO6385	
Rating(s) 5VDC 0.3A	
Remark:	A EX TEX STEX SITES NUTE MINIS
Whether parts of tests for the product have been subc	contracted to other labs:
☐ Yes ☐ No	
If Yes, list the related test items and lab information:	
Test items:	
Lab information:	EX TEX STEX WITH MITE MILL WALL V
Summary of testing:	me me me
Tests performed (name of test and test clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020 All applicable test	No. 77, Houjie Section, Guantai Road,
The submitted samples were found to comply with	Houjie Town, Dongguan City, Guangdong, China
the requirements of above specification.	alter with white was all the
EU Group Differences ☑ The product fulfils the requirements of EN IEC 623 1:2020+A11:2020.	68-1:2020+A11:2020 and BS EN IEC 62368-
Use of uncertainty of measurement for decisions	on conformity (decision rule) :
No decision rule is specified by the IEC standar applicable limit according to the specification in that	rd, when comparing the measurement result with the at standard. The decisions on conformity are made acceptance" decision rule, previously known as
☐ Other: (to be specified, for example when require requirements apply)	ed by the standard or client, or if national accreditation
Information on uncertainty of measurement:	
The uncertainties of measurement are calculated by t OD-5014 for test equipment and application of test measurement.	the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
IECEE.	of measurement uncertainty principles and applying
the decision rule when reporting test results withi	n IECEE scheme, noting that the reporting of the necessary unless required by the test standard or
customer.	

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

the testing.

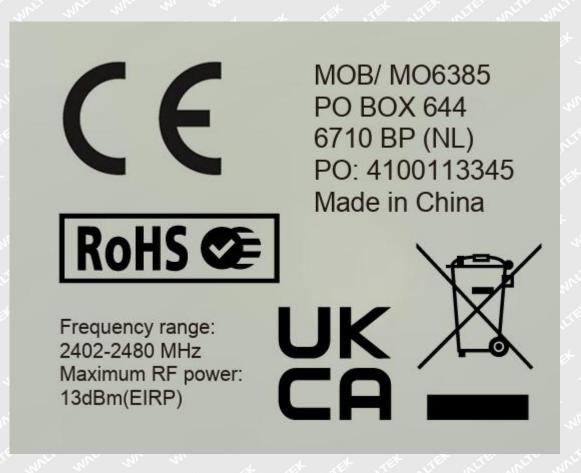
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Copy of marking plate:

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.



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:	at the left the life street miles
Product group	
Classification of use by:	☑ Ordinary person☑ Instructed person☑ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +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 □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	□ Location: □ building □ equipment □ N/A
Equipment mobility:	 ⊠ movable
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⊠ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location:	N/A□ restricted access area□ outdoor location□
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	35°C Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV _{L-L} ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.105kg



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POSSIBLE TEST CASE VERDICTS:	ber mer any and a state
- test case does not apply to the test object:	N/A get get liter with white
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	THE THE STATE OF THE STATE OF
Date of receipt of test item:	See the cover
Date (s) of performance of tests	See the cover
GENERAL REMARKS:	LIER WITE WITE WHITE MILL WILL WITE
"(see appended table)" refers to a table appended to the Throughout this report a ☐ comma / ☒ point is use GENERAL PRODUCT INFORMATION:	The state of the s
 Product Description The EUT covered by this report is a speaker used It is supplied by external power supply or by approcomplied with PS1. The manufacturer specified maximum ambient tem All circuits complied with ES1 and PS1, no other circuits 	oved internal lithium-ion battery or USB type-C which perature is 35°C.
Model Differences N/A	Et William Muriter Muriting Muriting Muriting M
Additional application considerations – (Consideration)	ations used to test a component or sub-assembly)



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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
ES1: All circuits	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
PS1: Battery	Enclosure	N/A	N/A	N/A
PS1:<15Watt circuit	Combustible materials within equipment	N/A	N/A	N/A
7	Injury caused by hazardous s	ubstances		
Class and Energy Source	Body Part (e.g., Skilled)	Safeguards		
(e.g. Ozone)		В	S	R
Battery (See Annex M)	Ordinary	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: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	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: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body r art		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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	ENERGY SOURCE DIAGRAM
Indicate which e	energy sources are included in the energy source diagram. Insert diagram below
A A	TEX TEX SITES NITE WAS THE WAY THE TO THE TEXT
Write White	□ ES □ PS □ MS □ TS □ RS
10 1	See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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<u> </u>	111111111111111111111111111111111111111	Strategic Strate	
in an		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS	e de la companya de	P.+
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JIL P
4.1.2 ME	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	MLI P TEK MA MLITE MLITE
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
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 such 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	J. P
4.4.3.1	General	A Sul m	Р
4.4.3.2	Steady force tests	(See Clause T.4)	TE P
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	t the lift which will	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	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
rie Aur	Glass impact test (1J)	LIER RUTER ARLIE ANNUE OF	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	√NP P
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	in the sur and	Р
4.5.1	General	et itet alter alter and	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P



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	EN IEC 62368-	tie with wall wall	
Clause	Requirement – Test	Result – Remark	Verdict
WILLER OF	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	Р
Liter wi	Fix conductors not to defeat a safeguard	TER TER STEE STEE	JULY P. J
at at	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	ALTER INTER WALTER WAY	N/A
4.8	Equipment containing coin/button cell batteries	S N	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	TEX STEE WITER WITE	N/A
4.8.3	Battery compartment door/cover construction	14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
White	Open torque test	EX SLIER WLIER WAITE W	N/A
4.8.4.2	Stress relief test	70° 7 7 7 7	N/A
4.8.4.3	Battery replacement test	CHIEF WILL MALL WAL	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test	MALL WALL	N/A
4.8.4.6	Crush test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
4.8.5	Compliance	The Will Mar Mar "	N/A
LUEY	30N force test with test probe	L St. Set Set	N/A
211.	20N force test with test hook	MULL MULL MULL MI	N/A
Likelihood of fire or shock due to entry of conductive object		N/A	
4.10	Component requirements	Auto Auto Auto Au	N/A
4.10.1	Disconnect Device	TEX TEX STEX	N/A
4.10.2	Switches and relays	VI AND AND AND	N/A

5	3,		Р
5.2			P
5.2.2			
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	7/1 P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	at let telt it	Р



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<u> </u>			
in an		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

<u> </u>	Troquiloni Toot	Troodic Tromain	Voluiot
5.3	Protection against electrical energy sources	the marine marine and the sail	N/A
5.3.1	General Requirements for accessible parts to	THE THE JUST NO	N/A
0.0.1	ordinary, instructed and skilled persons	mer mer mer m	
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	THE LIE NITER MITE	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	of the title lifet	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit	N/A
2115 1	Accessibility to outdoor equipment bare parts	MULL MULL MULL ON	N/A
5.3.2.2	Contact requirements	at at all all	N/A
n in	Test with test probe from Annex V	weir wer we we	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	at art test trest	N/A
5.3.2.2 b)	Air gap – distance (mm)	TIL MUT MUT ME	N/A
5.3.2.3	Compliance	ex lex tex tex.	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	t tet tet with mi	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	AL STEE MITE	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)	LIFE P
5.4.1.5	Pollution degrees	ry mir my mis	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* Writer writer writer on	N/A
5.4.1.5.3	Thermal cycling test	at alt alt of	N/A
5.4.1.6	Insulation in transformers with varying dimensions	MILL ME ME ME ME	N/A
5.4.1.7	Insulation in circuits generating starting pulses	et et jet jet	N/A
5.4.1.8	Determination of working voltage	bry Mur My My	N/A
5.4.1.9	Insulating surfaces	et jet jet sjet	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	THE THE	N/A
5.4.1.10.2	Vicat test	Write Mer My M.	N/A
5.4.1.10.3	Ball pressure test	et set set set	N/A
5.4.2	Clearances	nut aut aug au	N/A
5.4.2.1	General requirements	LEK TEK STEK STEK	N/A
- C., -	Clearances in circuits connected to AC Mains,	The me me	N/A
	Alternative method	s state of	16 TU.



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01	EN IEC 62368-		N/ P. 4
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	Mer were me	N/A
5.4.2.3.2.2	a.c. mains transient voltage	TEX TEX STEX	11511 -
5.4.2.3.2.3	d.c. mains transient voltage	mer mer m	
5.4.2.3.2.4	External circuit transient voltage	LIFE ALLEY MALES	INTE
5.4.2.3.2.5	Transient voltage determined by measurement	16, 11, 12, 2	<u> </u>
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE WILL MY	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	MUNITER MULTINE WALLE	N/A
5.4.2.6	Clearance measurement	TER STER STER	N/A
5.4.3	Creepage distances	me me m	N/A
5.4.3.1	General	LIER NITER WITER	N/A
5.4.3.3	Material group		
5.4.3.4	Creepage distances measurement	er with which whi	N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements	WILL MULL MULL	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation	The same	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	is we me m	N/A
5.4.4.6	Thin sheet material	* TEK TEK LIT	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LIER SLIER	N/A
· · ·	Number of layers (pcs)	m, m, m	N/A
5.4.4.6.3	Non-separable thin sheet material	TEX TEX STEELS	N/A
st st	Number of layers (pcs)	14 14 14 14 14 14 14 14 14 14 14 14 14 1	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	EX WALTER WALTER WAS	N/A
5.4.4.6.5	Mandrel test	- TEK CTEK CTE	N/A
5.4.4.7	Solid insulation in wound components	me me m	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, <i>E</i> _P , <i>K</i> _R , <i>d</i> , <i>V</i> _{PW} (V)	Whitek Whitek Whitek	N/A
TEK WALTER	Alternative by electric strength test, tested voltage (V), K _R	LIEF WILEY WHILE AN	N/A
5.4.5	Antenna terminal insulation	a a at a	/ N/A
5.4.5.1	General	WALL MALL WALL	N/A
5.4.5.2	Voltage surge test	1 1	N/A



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	EN IEC 62368-	Contraction of the contraction	
Clause	Requirement – Test	Result – Remark	Verdict
an i	M. M. T.	the water water water	11/2 11/1
5.4.5.3	Insulation resistance (MΩ)	- A A	N/A
ang an	Electric strength test	WITE WILL WALL	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	THE LIER STEEK	N/A
5.4.7	Tests for semiconductor components and for cemented joints	at the text of	N/A
5.4.8	Humidity conditioning	in me me	N/A
WALTER	Relative humidity (%), temperature (°C), duration (h)	t united milited white	wit -
5.4.9	Electric strength test	at at at	N/A
5.4.9.1	Test procedure for type test of solid insulation	White White White	N/A
5.4.9.2	Test procedure for routine test	at the let	N/A
5.4.10	Safeguards against transient voltages from external circuits	it we we w	N/A
5.4.10.1	Parts and circuits separated from external circuits	ET WILL MILL MILL	N/A
5.4.10.2	Test methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.10.2.1	General	White Mary Mary	N/A
5.4.10.2.2	Impulse test	A JET	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	I'E WITE WALLE	N/A
5.4.11	Separation between external circuits and earth	s state of	y N/A
5.4.11.1	Exceptions to separation between external circuits and earth	MULLE MULL MULL	N/A
5.4.11.2	Requirements	ALTER MITE MALTER	N/A
LIEK WALF	SPDs bridge separation between external circuit and earth	TEX STEX SLIER	N/A
4 4	Rated operating voltage U _{op} (V)	15. 14. 14. 14. 15.	
MILLE	Nominal voltage U _{peak} (V)	LEK SITEK OLITEK UNI	_ n,
. At	Max increase due to variation ΔU _{sp}	2h, 2h, 2	_
2112 11	Max increase due to ageing ΔU _{sa}	CITE MITTER WALTE	ing -
5.4.11.3	Test method and compliance	30 July 34	N/A
5.4.12	Insulating liquid	WILL WILL WILL	N/A
5.4.12.1	General requirements	1 x x	N/A
5.4.12.2	Electric strength of an insulating liquid	LICE WALLE WALL WE	N/A
5.4.12.3	Compatibility of an insulating liquid	s state	N/A
5.4.12.4	Container for insulating liquid	" Write Mrile Mrile	N/A
5.5	Components as safeguards		N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
5.5.1	General	No such components as safeguards.	N/A	
5.5.2	Capacitors and RC units	any any any any	N/A	
5.5.2.1	General requirement	TEX TEX WITH MIT	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	of the text item	N/A	
5.5.3	Transformers	in my my m	N/A	
5.5.4	Optocouplers	t get get get	N/A	
5.5.5	Relays	Mr. Mr. M. A	N/A	
5.5.6	Resistors	TEX STEX STEX ON	N/A	
5.5.7	SPDs	an in in	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIET WILLER WALTER WALE	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	EX UNITER WAITER WALTER	N/A	
Sterk	RCD rated residual operating current (mA)	the state of the	<u> </u>	
5.6	Protective conductor	Write Mrs. Mrs. M.	N/A	
5.6.2	Requirement for protective conductors	at the st	N/A	
5.6.2.1	General requirements	Class III equipment	N/A	
5.6.2.2	Colour of insulation	The Life	N/A	
5.6.3	Requirement for protective earthing conductors	and the man	N/A	
MITE.	Protective earthing conductor size (mm²)	of the tief stiff	<u></u>	
LIEK (Protective earthing conductor serving as a reinforced safeguard	the the text	N/A	
20 m	Protective earthing conductor serving as a double safeguard	and we are	N/A	
5.6.4	Requirements for protective bonding conductors	ALTER WALTER WALTE WALTE	N/A	
5.6.4.1	Protective bonding conductors	s at at at	N/A	
All	Protective bonding conductor size (mm²)	The wall will me	271	
5.6.4.2	Protective current rating (A)	- at at at	N/A	
5.6.5	Terminals for protective conductors	MULL MULL MULL IN	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	MITEL MAITE WAITER WAY	N/A	
TEX WALTE	Terminal size for connecting protective bonding conductors (mm)	THE STEE WIFE WATER	N/A	
5.6.5.2	Corrosion	70 70 1	N/A	
5.6.6	Resistance of the protective bonding system	CER MITER SHITE SHITE	N/A	
5.6.6.1	Requirements	The state of	N/A	
5.6.6.2	Test Method	NITE INITE MILL WI	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
Mis	The till the	Et SIE WILL WILL W	in april
5.6.6.3	Resistance (Ω) or voltage drop	70 10	N/A
5.6.7	Reliable connection of a protective earthing conductor	White White White whi	N/A
5.6.8	Functional earthing	TEX TEX STEET SOLIES	N/A
4 0	Conductor size (mm²)	the the to	N/A
NA WALL	Class II with functional earthing marking	THE SLIEB WITE WALTE W	N/A
- Jet	Appliance inlet cl &cr (mm)	an an	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	10 x x x x	N/A
5.7.2.1	Measurement of touch current	INLIER MALTE MALT MALT	N/A
5.7.2.2	Measurement of voltage	i st et set	N/A
5.7.3	Equipment set-up, supply connections and earth connections	The Marie Marie Marie	N/A
5.7.4	Unearthed accessible parts	EX SITE WITE WITE W	N/A
5.7.5	Earthed accessible conductive parts	The state of	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White White white wh	N/A
NETE WAS	Protective conductor current (mA)	ALL STILL MITE	N/A
st si	Instructional Safeguard	7 7 7	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	The White Mills While	N/A
5.7.7.1	Touch current from coaxial cables	CT TEX STER SLITER OF	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	THE THE THE ST	N/A
5.7.8	Summation of touch currents from external circuits	must me my	N/A
74 - 74 20 - 24	a) Equipment connected to earthed external circuits, current (mA)	ALTE WALTE WALL WALL	N/A
MULL	b) Equipment connected to unearthed external circuits, current (mA)	TER WALTER WALTER WALTER	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
30	Mains terminal ES	No battery used	N/A
all the	Air gap (mm)	LEK TEK TEK TE	N/A

6	ELECTRICALLY- CAUSED FIRE Classification of PS and PIS		NITE POLITE
6.2			Р
6.2.2	Power source circuit classifications	All internal and output circuits are considered to be PS1 circuits.	P
6.2.3	Classification of potential ignition sources	OLITER WALTER WALTER WALTER	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
6.2.3.1	Arcing PIS	All internal circuits are not considered as arcing PIS.	N/A	
LITER WAL	TE WALTER WALTER WALTER WALTER WALTER WALTER	They are supplied by external power supply whose open voltage is less than 50V.	N/A	
6.2.3.2	Resistive PIS	All internal circuits of PS1 circuits	N/A	
6.3	Safeguards against fire under normal operating conditions	and 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 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р	
	Combustible materials outside fire enclosure	Min. HB	Р	
6.4	Safeguards against fire under single fault condi	tions	nu Pa	
6.4.1	Safeguard method	Method by control of fire spread applied	JEX P	
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	THE THE THE THE	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	White Must must must suppose	N/A	
6.4.3.1	Supplementary safeguards	White white	N/A	
6.4.3.2	Single Fault Conditions	+ ht	N/A	
- an	Special conditions for temperature limited by fuse	The write must ame a	N/A	
6.4.4	Control of fire spread in PS1 circuits	PS1 circuits inside.	P	
6.4.5	Control of fire spread in PS2 circuits	MULL MULL MULL MU	N/A	
6.4.5.2	Supplementary safeguards	LET TEX TEX SITE	N/A	
6.4.6	Control of fire spread in PS3 circuits	Auri, Aur. Aur. Au.	N/A	
6.4.7	Separation of combustible materials from a PIS	LEK TEK LIEK NITEK	N/A	
6.4.7.2	Separation by distance	by my my m	N/A	
6.4.7.3	Separation by a fire barrier	Elt of the lifet outlet of	N/A	
6.4.8	Fire enclosures and fire barriers	Only PS1 circuit , no fire enclosures or barriers required	N/A	
6.4.8.2	Fire enclosure and fire barrier material properties	Mer, Mer, And An	N/A	
6.4.8.2.1	Requirements for a fire barrier	ret ret tret tree	N/A	
6.4.8.2.2	Requirements for a fire enclosure	They were the me	N/A	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	LIER WALTER WALTER WALTER	N/A	
6.4.8.3.1	Fire enclosure and fire barrier openings	at the left of	N/A	
6.4.8.3.2	Fire barrier dimensions	MULL MUE ME ME ME	N/A	
6.4.8.3.3	Top openings and properties	A ST ST ST	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- in-	On an in we discount (mark)	EL WILL WILL ALL A	NI/A	
0.400.4	Openings dimensions (mm)	at the table	N/A	
6.4.8.3.4	Bottom openings and properties	write lives the Mr.	N/A	
STEEL ST	Openings dimensions (mm)	THE AND THE	N/A	
THE THE	Flammability tests for the bottom of a fire enclosure	With Mill Mar Mar	N/A	
in which	Instructional Safeguard	THE STEEL WITE WITE	N/A	
6.4.8.3.5	Side openings and properties	1111	N/A	
Mer. 1	Openings dimensions (mm)	A STEE WITE WAITE ON	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	Tex Ster Ster Mil	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	out out at the life's	N/A	
6.4.9	Flammability of insulating liquid	The me and	N/A	
6.5	Internal and external wiring	of let like like	P	
6.5.1	General requirements	Mer Mer M	Р	
6.5.2	Requirements for interconnection to building wiring	MULTER MALTER MALTER WAY	N/A	
6.5.3	Internal wiring size (mm2) for socket-outlets		N/A	
6.6	Safeguards against fire due to the connection to ac	dditional equipment	Р	
cet se		14 114	J. 18	
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р	
7.2	Reduction of exposure to hazardous substance	s at at at	N/A	
7.3	Ozone exposure	with mir my m	N/A	
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A	
in a	Personal safeguards and instructions	mr. mr. mr. m.	_	
7.5	Use of instructional safeguards and instruction	S et let the the	N/A	
	Instructional safeguard (ISO 7010)	in my my	-	
7.6	Batteries and their protection circuits	TEX WITH MITTER WALTER	In the But	
8	MECHANICALLY-CAUSED INJURY		Р	
8.2	Mechanical energy source classifications	Mer All Mr. M.	Р	
8.3	Safeguards against mechanical energy sources		P	
8.4	Safeguards against parts with sharp edges and	corners	Р	
8.4.1	Safeguards	THE LIER SLIER WITE	NITE PUI	
t stek	Instructional Safeguard:	MS1: Edges and corners of enclosure	P	
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P	
8.5	Safeguards against moving parts	alter white white whi	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A	
75 TE	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A	
20	Moving MS3 parts only accessible to skilled person	Will Mr. Mr. M.	N/A	
8.5.2	Instructional safeguard	et set set stet	N/A	
8.5.4	Special categories of equipment containing moving parts	Must my my m	N/A	
8.5.4.1	General	White white and an	N/A	
8.5.4.2	Equipment containing work cells with MS3 parts	at at the state	N/A	
8.5.4.2.1	Protection of persons in the work cell	anti wat we wan	N/A	
8.5.4.2.2	Access protection override	the tex tex stex	N/A	
8.5.4.2.2.1	Override system	r mr m m	N/A	
8.5.4.2.2.2	Visual indicator	et tet alter outer or	N/A	
8.5.4.2.3	Emergency stop system	m. m. m.	N/A	
MULT W	Maximum stopping distance from the point of activation (m)	White White White White	N/A	
NITER WALT	Space between end point and nearest fixed mechanical part (mm):	THE MILITER WALTER	N/A	
8.5.4.2.4	Endurance requirements	The State	N/A	
F 787	Mechanical system subjected to 100 000 cycles of operation	it with any and a	N/A	
21/2 2	- Mechanical function check and visual inspection	antic muri muri mu	N/A	
Clerk N	- Cable assembly	at at at a	N/A	
8.5.4.3	Equipment having electromechanical device for destruction of media	mere mer mer me	N/A	
8.5.4.3.1	Equipment safeguards	NITER WALL WALL	N/A	
8.5.4.3.2	Instructional safeguards against moving parts:	a state of	N/A	
8.5.4.3.3	Disconnection from the supply	ie with mit me m	N/A	
8.5.4.3.4	Cut type and test force (N):	- of the set of	N/A	
8.5.4.3.5	Compliance	Muri Mur Mur Mur	N/A	
8.5.5	High pressure lamps	No high pressure lamps used.	N/A	
4 .4	Explosion test	ner me me m	N/A	
8.5.5.3	Glass particles dimensions (mm):	TEX LIEX SLIER WLIER	N/A	
8.6	Stability of equipment	- M. M. A.	N/A	
8.6.1	General	MS1: Mass of the unit	N/A	
, et	Instructional safeguard:	In In a	N/A	
8.6.2	Static stability	LITER SLITE WILL WILL	N/A	



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-20,	EN IEC 62368-	to we will	20, 2,
Clause	Requirement – Test	Result – Remark	Verdict
8.6.2.2	Ctatic etability toot	the wife and and a	N/A
	Static stability test:	at at at	6 JV
8.6.2.3	Downward force test	Were the me one	N/A
8.6.3	Relocation stability	at the fift of	N/A
	Wheels diameter (mm):	With the Man Miles	2, -,
EK WILLE	Tilt test	CIL SELL SELL STEEL	N/A
8.6.4	Glass slide test	, me me m.	N/A
8.6.5	Horizontal force test	t get steet steet st	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	21/2, 21, 25, 2	N/A
rie Mir	Test 1, additional downwards force (N):	TEX STER SLIER WALTER	N/A
ek altek	Test 2, number of attachment points and test force (N)	et let let liet	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)	which may all a	N/A
8.8	Handles strength	Write Mir Aut Au	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	an an	N/A
IEK INLIE	Number of handles	THE LITTLE STREET	NITER-
, " 4	Force applied (N)	is my my m	7 -
8.9	Wheels or casters attachment requirements	EX TEX TEX STEED	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	TEX STEEL SUITER SING	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	ing my my m	N/A
8.10.3	Cart, stand or carrier loading test	Et TEX TEX STEE	N/A
76	Loading force applied (N):	1/10 1/11 1/11	N/A
8.10.4	Cart, stand or carrier impact test	tiet alter alter in	N/A
8.10.5	Mechanical stability	24. 24. 25.	N/A
Vri In	Force applied (N):	TITEL OLIER WITE WILL	MULC
8.10.6	Thermoplastic temperature stability		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 WALL WILL S	N/A
, Lit	Instructional Safeguard:		N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale,	Will the total of	THE LIFE WITH WALL	all all	
8.11.3	Mechanical strength test	20 20	N/A	
8.11.3.1	Downward force test, force (N) applied:	ALTER WALTER MALTE	N/A	
8.11.3.2	Lateral push force test	20 7 7	N/A	
8.11.3.3	Integrity of slide rail end stops	RETER METE WALL V	N/A	
8.11.4	Compliance	1 1	N/A	
8.12	Telescoping or rod antennas	LIE WALL WALL WA	N/A	
- TEX	Button/ball diameter (mm):	No such parts	6 A —	

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications Touch temperature limits		20 P 20
9.3			∠(⁶ P _c)
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	The state of	F Pot
9.5	Requirements for safeguards		WP 4
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.	MALTER MALT
9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	Mr. Mr. M. M.	N/A
9.6.1	General	TEX LIER NITE WITE	N/A
9.6.2	Specification of the foreign objects	Any Any Any Any	N/A
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A

10	RADIATION	LET TEX STEEL OF	TE PALTE
10.2 10.2.1	Radiation energy source classification		Р
	General classification	See below	Р
	Lasers	Mr. Mr. Mr.	7
11/12 11	Lamps and lamp systems	RS1: LED (exempt group), See IEC/EN 62471 test report.	mer m
TER INL	Image projectors	tet tet tet with	NITE WILL
ياد ي	X-Ray	no m	* - #
WILL	Personal music player	Et LIER NITER WITE WY	The same of the sa
10.3	Safeguards against laser radiation		N/A
West 1	The standard(s) equipment containing laser(s)	No laser radiation	N/A



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Unite Maria	Mer Martin	EN IEC 62368-	Lifet writer while	Marie Marie Marie
Clause	Requirement – Test	The Auto August	Result – Remark	Verdict

	comply:	In In	- 2+
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	W.b
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	WILL B
EK WALTER	Instructional safeguard provided for accessible radiation level needs to exceed	SEX SLIER WILEY WILLER W	N/A
- LEF	Risk group marking and location:	70 70	N/A
1/1/2	Information for safe operation and installation	CLIE WALL WALL THE	N/A
10.4.2	Requirements for enclosures	a state	N/A
ne m	UV radiation exposure:	mite with and and	N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation	VILLE MULL MULL AND A	N/A
10.5.1	Requirements	No X-radiation	N/A
20,	Instructional safeguard for skilled persons:	MILL ME ME M	_
10.5.3	Maximum radiation (pA/kg):	at let the sit	_
10.6	Safeguards against acoustic energy sources	Weign Aug Aug Aug	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N/A
ite with	Acoustic output L _{Aeq,T} , dB(A):	THE ITE ALTE NATE OF	N/A
L st	Unweighted RMS output voltage (mV):	1/1 1/1 1/1	N/A
White.	Digital output signal (dBFS)	the little writer and the sun's	N/A
10.6.3	Requirements for dose-based systems	The same of the	N/A
10.6.3.1	General requirements	SITES INLIE WALTE WALTE	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	RUTER INCLES WALL WILL S	N/A
Et JET	30 s integrated exposure level (MEL30)	a start set	N/A
17/12	Warning for MEL ≥ 100 dB(A)	THE WALL WALL WALL WA	N/A
10.6.4	Measurement methods	Lat at at a	N/A
10.6.5	Protection of persons	Maria Maria Maria Maria	N/A
ان المالات	Instructional safeguards	et et get get	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	Mary Mary Mary Mary	N/A
10.6.6.1	Corded listening devices with analogue input	LIE WILL MULL MULL OF	N/A
t TEX	Listening device input voltage (mV):	a state of	N/A
10.6.6.2	Corded listening devices with digital input	Mr. Mr. Mr. M.	N/A
A COLOR	Max. acoustic output L _{Aeq,T} , dB(A):	at at at so	N/A



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Clause Requirement – Test Result – Remark				
10.6.6.3	Cordless listening devices	the many way	N/A	
MULL M	Max. acoustic output L _{Aeq,T} , dB(A):	ALTER MITE WALTER WI	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.1	General	at all all aller of	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	It TELL ITEL STEEL OUT	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment with audio amplifiers	(See appended table B.2.5)	P
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test	(See appended table B.2.5)	e P
B.3	Simulated abnormal operating conditions	the antic mili mer me	Р
B.3.1	General	(See appended table B.3, B.4)	P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
STEEL ST	Instructional safeguard	at the little	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 such selector	N/A
B.3.5	Maximum load at output terminals	in the said	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	un P
B.4	Simulated single fault conditions	et set set stet	ETEP.
B.4.1	General	bri and any and	Р
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	IE PA
B.4.3	Blocked motor test	No motors	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)	TE P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
D 1.5			200
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:	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	un P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	radiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	e at set set of	N/A
C.2	UV light conditioning test	Wer My My My	N/A
C.2.1	Test apparatus:	IF THE RITE	N/A
C.2.2	Mounting of test samples	2 14 14	N/A
C.2.3	Carbon-arc light-exposure test	The It will nite	N/A
C.2.4	Xenon-arc light-exposure test	in my my	N/A
Darlie	TEST GENERATORS	IEK STEK WILL MILLE MI	N/A
D.1	Impulse test generators	The American	N/A
D.2	Antenna interface test generator	Later wife with white	N/A
D.3	Electronic pulse generator	M. A. A.	N/A
E 2112	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	Mr. Pa
E.1	Electrical energy source classification for audi	o signals	P
21/2	Maximum non-clipped output power (W):	(See appended table B.2.5)	12 - 141
TEX	Rated load impedance (Ω):	(See appended table 4.1.2)	5 pt _5
211 1	Open-circuit output voltage (V)	(See appended table B.2.5)	10
CLIFE'S	Instructional safeguard:	Provided in the manual	F COTES
E.2	Audio amplifier normal operating conditions		
TER WILL	Audio signal source type:	(See appended table B.2.5)	NUTE -
, , , L	Audio output power (W):	(See appended table B.2.5)	L
White	Audio output voltage (V)::	(See appended table B.2.5)	116 161
4	Rated load impedance (Ω):	(See appended table 4.1.2)	



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Clause	EN IEC 62368-	C. (1) (2) (2)	Mandiat
Clause	Requirement – Test	Result – Remark	Verdict
NITEK SI	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	n P
F.1	General	of let let liter	ITE P
2,	Language:	English	_
F.2	Letter symbols and graphical symbols	et tet tiet wiek ni	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	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.	MUTE P
F.3	Equipment markings	TER WILL MILL MILL WI	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	* PE
F.3.2	Equipment identification markings	See below for details.	n P
F.3.2.1	Manufacturer identification	See copy of marking plate	LITTER P
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	Not 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	LIER REFER WHILE WHILE	N/A
F.3.3.2	Equipment without direct connection to mains	an an at the	N/A
F.3.3.3	Nature of the supply voltage:	ALTER MITER WALLE WALL	N/A
F.3.3.4	Rated voltage:		N/A
F.3.3.5	Rated frequency	THE MALL WALL WALL WALL WE	N/A
F.3.3.6	Rated current or rated power:	and the state of	N/A
F.3.3.7	Equipment with multiple supply connections	white white white whi	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	ourie mur me me	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	LIER WILLER WHILE A	N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings:	Contill mill mill on	N/A
11/2/2 201	Instructional safeguards for neutral fuse:	TER STER STER SOLL	N/A



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	EN IEC 62368-	J. "(1). "(2). "	× ×
Clause	Requirement – Test	Result – Remark	Verdict
5054		the state of the s	1 21/0
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	The state of the state	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	TEX STEEL WITER WITE W	N/A
F.3.6.1.1	Protective earthing conductor terminal:	n n +	N/A
F.3.6.1.2	Protective bonding conductor terminals	ALTER WITE WALTE WAL	N/A
F.3.6.2	Equipment class marking:	10 J A B	N/A
F.3.6.3	Functional earthing terminal marking:	ALTER MILE MALIE WALLE	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	INLIE L
F.3.8	External power supply output marking:	No such parts.	LN/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
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.	JUNITER WALTER
F.4	Instructions	et let let liet liet	Р
	a) Information prior to installation and initial use	See user manual	Р
MALTE	b) Equipment for use in locations where children not likely to be present	LEX WILLER MULTER M	N/A
LITER	c) Instructions for installation and interconnection	- at all all s	N/A
All A	d) Equipment intended for use only in restricted access area	min mer mer m	N/A
ive, in	e) Equipment intended to be fastened in place	MITER MALTE MALTE WALL	N/A
LET LET	f) Instructions for audio equipment terminals	that at at	N/A
41/2	g) Protective earthing used as a safeguard	LIE WILL MULL MULL	N/A
MULTER	h) Protective conductor current exceeding ES2 limits	et liet niget milet w	N/A
4	i) Graphic symbols used on equipment	21/2 21/2 20 2	N/A



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
NATER N	j) Permanently connected equipment not provided with all-pole mains switch	THE THE THE	N/A	
Tex S	k) Replaceable components or modules providing safeguard function	Must will all	N/A	
70	Equipment containing insulating liquid	Will MUT MUT MI	N/A	
IEN NITE	m) Installation instructions for outdoor equipment	at at at of	N/A	
F.5	Instructional safeguards	ri Aur Aur Au	N/A	
G	COMPONENTS		P	
G.1	Switches	The Mr. M.	N/A	
G.1.1	General	No switch used	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	me me	N/A	
G.1.3	Test method and compliance	THE LITER SLIFE WILL	N/A	
G.2	Relays	1 211 211 11 11 11 11 11 11 11 11 11 11	N/A	
G.2.1	Requirements	No relay used.	N/A	
G.2.2	Overload test	20 20 3	N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	WALTER WALTER WALTER	N/A	
G.2.4	Test method and compliance	Let of other in	N/A	
G.3	Protective devices	7 1	N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
* NLTEX	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	* Tet Tet Life	N/A	
JEK .	Thermal cut-outs tested as part of the equipment as indicated in c)	The the tex	N/A	
G.3.1.2	Test method and compliance	WHITE WALL WALL Y	N/A	
G.3.2	Thermal links	No such component	N/A	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	ner un un un	N/A	
2/1/2	b) Thermal links tested as part of the equipment	IE WILL WILL AND	N/A	
G.3.2.2	Test method and compliance	L A A A	N/A	
G.3.3	PTC thermistors	No such component	N/A	
G.3.4	Overcurrent protection devices	No such component	N/A	
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	mary mary may on	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	THE MULTE MULTE WAS	N/A	
G.3.5.2	Single faults conditions:	EX NITER WITE MALTE	N/A	
G.4	Connectors	7/1 7/1	N/A	
G.4.1	Spacings	No such component	N/A	



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01	EN IEC 62368-	D	V/1:4
Clause	Requirement – Test	Result – Remark	Verdict
G.4.2	Mains connector configuration:	me me m	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	WALTER WALTER WALTER	N/A
G.5	Wound components	LEK TEK TEK S	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	TER LIER WIFE WIT	N/A
G.5.2	Endurance test	14, 24, 25,	N/A
G.5.2.1	General test requirements	et liet wife unlied	N/A
G.5.2.2	Heat run test	447 47	N/A
me an	Test time (days per cycle)	WILL WILL WILL A	V
at at	Test temperature (°C):	and the set of	
G.5.2.3	Wound components supplied from the mains	WITE WALL WALL WAS	N/A
G.5.2.4	No insulation breakdown	a at at all	N/A
G.5.3	Transformers	white met with	N/A
G.5.3.1	Compliance method:	at the text	N/A
41, 41	Position:	white me me.	N/A
NITER IN	Method of protection	Et TEL	N/A
G.5.3.2	Insulation	1 24 24	N/A
TER WILLE	Protection from displacement of windings:	the the training	
G.5.3.3	Transformer overload tests	2 May 20 20	N/A
G.5.3.3.1	Test conditions	the little alies with	N/A
G.5.3.3.2	Winding temperatures	14, 14, 14,	N/A
G.5.3.3.3	Winding temperatures - alternative test method	LIFE OUTE WITE	N/A
G.5.3.4	Transformers using FIW	711 711 71	N/A
G.5.3.4.1	General	SLIER WITE WALLE WA	N/A
et et	FIW wire nominal diameter:		* –
G.5.3.4.2	Transformers with basic insulation only	IET WILL WILL MILL	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	et liet wifet willest	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	TEX TEX TIER	N/A
G.5.3.4.5	Thermal cycling test and compliance	me me me	N/A
G.5.3.4.6	Partial discharge test	THE STILL STILL STILL	N/A
G.5.3.4.7	Routine test	10, 20, 20,	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	211 211 21	N/A
G.5.4.2	Motor overload test conditions	THE LIFE WITE	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
The .	all the state of the state of	EL MILL MILL MILL	me an
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test	WHILE MALL MALL	M/A
Set S	Test duration (days):	* + +	all _
G.5.4.5	Running overload test for DC motors	WILL MULL MULL MU	N/A
G.5.4.5.2	Tested in the unit	a start st	N/A
G.5.4.5.3	Alternative method	TE MULL MULL MULL	N/A
G.5.4.6	Locked-rotor overload test for DC motors	L at let let	N/A
G.5.4.6.2	Tested in the unit	MULL MAL MAL	N/A
CLIER W	Maximum Temperature	et et set	N/A
G.5.4.6.3	Alternative method	MULL MULL MULL M	N/A
G.5.4.7	Motors with capacitors	et let let	N/A
G.5.4.8	Three-phase motors	in min men m	N/A
G.5.4.9	Series motors	CH TEX STEX STE	N/A
	Operating voltage:	Mr. Mr. Mr.	
G.6	Wire Insulation	t Test Test of Test	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	LEE CONTER	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	No such component	N/A
t et	Type:	711 101 1	_
G.7.2	Cross sectional area (mm² or AWG)	A STEE WITE WALLE	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	ifet stiet stiet	N/A
G.7.3.2	Cord strain relief	THE THE THE	N/A
G.7.3.2.1	Requirements	ITEL SITE OUTER WA	N/A
* 4	Strain relief test force (N)		√ N/A
G.7.3.2.2	Strain relief mechanism failure	IET NITE WITER WITE	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	on the ext	N/A
G.7.3.2.4	Strain relief and cord anchorage material	INLIE WALLEY WALLE	N/A
G.7.4	Cord Entry	- A - A	N/A
G.7.5	Non-detachable cord bend protection	nite unit with w	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance	THE WITH WITH MY	N/A
MALTEY.	Overall diameter or minor overall dimension, <i>D</i> (mm)	Et NIET WIFE WILLER	W
عاد ا	Radius of curvature after test (mm):	10, 20, 6	



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	Verdict
G.7.6	Supply wiring space	Mr. Mr.	N/A
G.7.6.1	General requirements	ITER SITES MITTER	N/A
G.7.6.2	Stranded wire	Mr. All In.	N/A
G.7.6.2.1	Requirements	alifet outil online	N/A
G.7.6.2.2	Test with 8 mm strand		M/A
G.8	Varistors	LIET INLIED WALTER WALT	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	INTICE MALL WALL	N/A
G.8.2.1	General	at at at	N/A
G.8.2.2	Varistor overload test	Write Mrt. Mrt. M	N/A
G.8.2.3	Temporary overvoltage test	at at all a	N/A
G.9	Integrated circuit (IC) current limiters	VILL MUT, MUT, MUT,	N/A
G.9.1	Requirements	No such component	N/A
~	IC limiter output current (max. 5A)	mi me m	
الاستكتابات	Manufacturers' defined drift	THE THE STEE	alif _
G.9.2	Test Program	With This Till	N/A
G.9.3	Compliance	Little of Military	N/A
G.10	Resistors		N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	MITTER WALTER WALTER	N/A
G.10.4	Voltage surge test	4 4 1	N/A
G.10.5	Impulse test	WILL MILL MILL A	N/A
G.10.6	Overload test	a at at .	N/A
G.11	Capacitors and RC units	WILL MULL MULL MA	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	were my me	N/A
G.11.3	Rules for selecting capacitors	- et let let	N/A
G.12	Optocouplers	me, me, me	N/A
Writer MVR	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
TEX LIE	Type test voltage V _{ini,a} :	at at at a	U* _
24	Routine test voltage, V _{ini, b}	re mer mer me	۷ _
G.13	Printed boards	et set set set	P
G.13.1	General requirements	Mus and and	Р
G.13.2	Uncoated printed boards	at let det	NP NP



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Clause	EN IEC 62368-		Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.13.3	Coated printed boards	The site of	N/A
G.13.4	Insulation between conductors on the same inner surface	WALTER WALTER WALTER	N/A
G.13.5	Insulation between conductors on different surfaces	NUTER WALTER WALTER WA	N/A
IEN CLIER	Distance through insulation	at the title of	N/A
-20,	Number of insulation layers (pcs)	i mi mi m	
G.13.6	Tests on coated printed boards	t get get wet	N/A
G.13.6.1	Sample preparation and preliminary inspection	The Mr. Mr.	N/A
G.13.6.2	Test method and compliance	TEX LIER SLIER	N/A
G.14	Coating on components terminals	The The The T	N/A
G.14.1	Requirements	THE STIEF WITER AND	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	100 A 34	- N/A
G.15.2.1	Hydrostatic pressure test	CLIEB WALTER WALLE	N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test	The Marie M	N/A
G.15.2.4	Vibration test		of ON/A
G.15.2.5	Thermal cycling test	LIE WALL MAL MAL	N/A
G.15.2.6	Force test	t at let det	N/A
G.15.3	Compliance	MULL MULL MU	N/A
G.16	IC including capacitor discharge function (ICX)	At the the	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
LIE MIT	ICX with associated circuitry tested in equipment	TEX TEX STEEL ON	N/A
4 4	ICX tested separately	VI AVE AVE AVE	N/A
G.16.2	Tests	the lift lift with	N/A
SUIE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	- let the the	_
To a	Mains voltage that impulses to be superimposed on	Mus and an	1614 —
is an	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	MULLE MULLE MULL M	N _
G.16.3	Capacitor discharge test	LIER RITER MALTER WAL	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	IER WILL WILL WITH WALL	N/A
H.2	Method A	d at at	N/A
H.3	Method B	ALTER MITE MALLY	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the tell the	_
H.3.1.2	Voltage (V)	write and any	_
1.3.1.3	Cadence; time (s) and voltage (V):	EK TEK TEK STEK	-
1.3.1.4	Single fault current (mA):	you we am	_
1.3.2	Tripping device and monitoring voltage	t iter witer witer our	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the lift of	N/A
H.3.2.2	Tripping device	mer, mer mer m	N/A
1.3.2.3	Monitoring voltage (V):	THE THE STEP WITTEN	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	it will mur mur a	N/A
alifek ar	Winding wire insulation:	- let let liter in	· —
to,	Solid round winding wire, diameter (mm):	were me me m	N/A
NITE WALT	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MULTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	The state of the s	LIEK-N
≺	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
<.2	Components of safety interlock safeguard med	hanism	N/A
C.3	Inadvertent change of operating mode	the feet that	N/A
<.4	Interlock safeguard override	her mer mer me	N/A
<. 5	Fail-safe Safe	et let jet jiet	N/A
<.5.1	Under single fault condition	, my my m a	N/A
₹.6	Mechanically operated safety interlocks	A TEX LIER SLIER IN	N/A
<.6.1	Endurance requirement	m m m	N/A
K.6.2	Test method and compliance	LIER STER WILLE	N/A
<.7	Interlock circuit isolation	The Me de la constitución de la	N/A
<.7.1	Separation distance for contact gaps & interlock circuit elements	LIER MILIER WALLE MALIE	N/A
WHILE	In circuit connected to mains, separation distance for contact gaps (mm)	et united whitek w	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)	itet sitet sliet sei	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Mes	M. M. J.	the party mark and and	411
	Electric strength test before and after the test of K.7.2	at at let of	N/A
K.7.2	Overload test, Current (A):	Mr. Mr. Mr. Mr.	N/A
K.7.3	Endurance test	TEK TEK LIEK NITER	N/A
K.7.4	Electric strength test	his me me in	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	y 24	N/A
L.2	Permanently connected equipment	* SLIEB NLIEB MLIEB MIL	N/A
L.3	Parts that remain energized	Shirt St. Cl.	N/A
L.4	Single-phase equipment	CLIEB WILL WALL WALL	N/A
L.5	Three-phase equipment	and the state of	N/A
L.6	Switches as disconnect devices	LIFE WALL WALL WALL	N/A
L.7	Plugs as disconnect devices	a st st st	N/A
L.8	Multiple power sources	in while and were an	N/A
-UER	Instructional safeguard	at the set of	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		Р
M.1	General requirements		P
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards	IEC 62133-2:2017 considered. See test report.	NITE BI
M.3	Protection circuits for batteries provided within the equipment	of mitter mitter waited and	EK P.
M.3.1	Requirements	The state of the	P
M.3.2	Test method	MITEL MALIE WALL WALL	JII. P
26th 5	Overcharging of a rechargeable battery	a the set set	Р
n 24	Excessive discharging	NITE WALL WALL WALL	Р
ek walter	Unintentional charging of a non-rechargeable battery	Rechargeable Li-ion battery used.	N/A
WALTER	Reverse charging of a rechargeable battery	The design of the connector prevents reverse polarity connections.	N/A
M.3.3	Compliance	(See appended table M.3)	(P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	P
M.4.1	General	LIET MILE MALL WALL V	P



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20,	EN IEC 62368-	Tit will war will a	11. 20.
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	PH Whitek whi
M.4.2.1	Requirements	t it lit set is	P. P.
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	Only PS1 circuit , no fire enclosures or barriers required	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	TEL STEE WIFE WITER	MITEL P WATE
M.4.4.2	Preparation and procedure for the drop test	- 70 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	P P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	Р
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	NP .
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	M P M
M.4.4.6	Compliance	TE OLIV MILL WALLE W	PILL BULL
M.5	Risk of burn due to short-circuit during carrying	g	P P
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	THE STEE MITTER SMITH	N/A
M.6	Safeguards against short-circuits	Mr. 1/1 1/2 1	Р
M.6.1	External and internal faults	LIEN RUEL WILL WHILE	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	TEK P WALTER
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	Whitek Whitek Whitek White	N/A
ITEK PLIE	Calculated hydrogen generation rate:	LET THE STEEL	N/A
M.7.2	Test method and compliance	The Mr. Mr. 2	N/A
INLIE	Minimum air flow rate, Q (m³/h)	at the tier stier is	N/A
M.7.3	Ventilation tests	Mr. M. M. M.	N/A
M.7.3.1	General	TER TER STER STE	N/A



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200	EN IEC 62368-	or the the	20, 0,
Clause	Requirement – Test	Result – Remark	Verdict
M 7 2 2	Variable at a real and	entite with our on	N1/A
M.7.3.2	Ventilation test – alternative 1	the set of	N/A
14. 14	Hydrogen gas concentration (%):	with with our one	N/A
M.7.3.3	Ventilation test – alternative 2	The state of	N/A
201	Obtained hydrogen generation rate:	Write Mer Mer Mur	N/A
M.7.3.4	Ventilation test – alternative 3	the set of	N/A
701	Hydrogen gas concentration (%)	it must me a	N/A
M.7.4	Marking:	e at all set of	N/A
M.8	Protection against internal ignition from externa with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	WITER WILLE, WHILL AND IN	N/A
M.8.2	Test method	The state of	N/A
M.8.2.1	General	LIFE MILITE WALL WALL	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	at the fifth	JEK -
M.8.2.3	Correction factors:	The war were a	-20,
M.8.2.4	Calculation of distance d (mm):	. It let the st	et just
М.9	Preventing electrolyte spillage	were mer me me	N/A
M.9.1	Protection from electrolyte spillage	It THE LITE	N/A
M.9.2	Tray for preventing electrolyte spillage	- 1 10 10	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	TE WHITE WHITE WHITE	N/A
LIER	Instructional safeguard:	t let let let s	N/A
N	ELECTROCHEMICAL POTENTIALS	Mer Mr. Mr. M.	N/A
CLIEB OF	Material(s) used:	LET TEX STEX SITE	NITE.
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
Lifeth and	Value of <i>X</i> (mm):	TEX TEX STEE STEET	WELLE .
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS	N/A
P.1	General	EK LIEK NITEK MITEK	N/A
P.2	Safeguards against entry or consequences of e	ntry of a foreign object	N/A
P.2.1	General	- LIER WITE WHITE SUNT	N/A
P.2.2	Safeguards against entry of a foreign object	And the or	N/A
الدير المالية	Location and Dimensions (mm)	NITER MITE WALTE WALTE	10/15
P.2.3	Safeguards against the consequences of entry of a foreign object	Tet wifet with writer	N/A
P.2.3.1	Safeguard requirements	. 14, 14, 1,	N/A
Mer	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	antier writer while we	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
NITEK	Transportable equipment with metalized plastic parts:	te and and a	N/A
P.2.3.2	Consequence of entry test:	me me m	N/A
P.3	Safeguards against spillage of internal liquids	TEK ITEK MITE MITE	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	CENT LIER SLIER WITE	N/A
P.3.3	Spillage safeguards	The The Table	N/A
P.3.4	Compliance	et lifet miter milier w	N/A
P.4	Metallized coatings and adhesives securing pa	ırts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	The state of the s	N/A
in any	Conditioning, T _C (°C):	LITER MILLE MALLE MALLE	1/2 -1
y TEN	Duration (weeks):	s st st st	16k -C
Q July	CIRCUITS INTENDED FOR INTERCONNECTION	N WITH BUILDING WIRING	N/A
Q.15	Limited power sources	at the test of	N/A
Q.1.1	Requirements	were mer and my	N/A
LITER N	a) Inherently limited output	at the site	N/A
,	b) Impedance limited output	2 24 24	N/A
SEL ARLI	c) Regulating network limited output	THE THE STREET	N/A
, ,,,,	d) Overcurrent protective device limited output	in the shift	N/A
MILIE	e) IC current limiter complying with G.9	st the liter wife of	N/A
Q.1.2	Test method and compliance:	111, 111, 21, 2	N/A
MUTITE OF	Current rating of overcurrent protective device (A)	While While While WAL	N/A
Q.2	Test for external circuits – paired conductor cable	NITE WAITER WAITER	N/A
EX JIE	Maximum output current (A):	at all all the	N/A
10	Current limiting method:	and when my	7)
R	LIMITED SHORT CIRCUIT TEST	at let let liet o	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	TEX TEX STER WIT	N/A
	Overcurrent protective device for test:	ar an in	
R.3	Test method	THE STEE WITH WITH	N/A
4 25	Cord/cable used for test	1. M. M. M.	d+ -
R.4	Compliance	of the life all a	N/A



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0	EN IEC 62368-1				
	Clause	Requirement – Test	With Auri Auri Au	Result – Remark	Verdict

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	70	N/A
S.1	Flammability test for fire enclosures and fire ba where the steady state power does not exceed		N/A
rile. "Il	Samples, material:	TEX LIER NUTER MITE	Write a
,t- ,	Wall thickness (mm)	W. M. M. M.	
July 1	Conditioning (°C)	IER STEE WILL MILL MILLE	9/
MALTER	Test flame according to IEC 60695-11-5 with conditions as set out	t the state state and	N/A
*	- Material not consumed completely	m m m	N/A
Wille a	- Material extinguishes within 30s	LIEX SLIER WIFE WHILE	N/A
×	- No burning of layer or wrapping tissue	M. M. M.	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
+ 16	Samples, material:	10 t 12	# - x
Mer	Wall thickness (mm):	EX MITER WALL WALL WA	- an
All the	Conditioning (°C)		- <u> </u>
S.3	Flammability test for the bottom of a fire enclos	sure and an an	N/A
S.3.1	Mounting of samples	A THE THE	N/A
S.3.2	Test method and compliance	The sure sure	N/A
iek "ci	Mounting of samples:	The life	JE -10
43,	Wall thickness (mm)	re mer me m	
S.4	Flammability classification of materials	t THE SHE WITH MI	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	WILLER WILLER WITTER	N/A
- C	Samples, material:		(6 <u>t</u>
211	Wall thickness (mm):	NITE WITE WITE WALL	12 - 21
J. J.	Conditioning (°C)	at the left of	16th - 1
T Ju	MECHANICAL STRENGTH TESTS	it with mit my	Р
T.1 (188)	General	t at alt alt of	Р
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:	LEK TEK LIEK SLIFEN	N/A
T.4	Steady force test, 100 N:	mer mer in an	N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	N/A
T.6	Enclosure impact test	(See appended table T.6)	N/A
WALTE	Fall test	ex life outer wife and	N/A
+	Swing test	Mr. M. M.	N/A
T.7	Drop test:	(See appended table T.7)	N/P



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Clause	Requirement – Test	Decult Demont	Verdict
Clause	Requirement – Test	Result – Remark	verdict
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	a at at set	N/A
71/2	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas	at let let liet	N/A
- Tex	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Orles -	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General	THE WILL WALLE WALLE	N/A
LIEK WALT	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A
U.3	Protective screen	CENT STEET STIFF SOLITER SOLITER SOLITER SOLITER SOLITER SOLITER	N/A
V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment	ALTER WITER WALTER WALTER	N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	The mark while	N/A
V.1.3	Openings tested with straight unjointed test probes	THE LIFE MINE MITTER	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	N/A
V.1.5	Slot openings tested with wedge probe	* CITER WILLIAM ON THE WAY	N/A
V.1.6	Terminals tested with rigid test wire	The second second	N/A
V.2	Accessible part criterion	COLIFER WALTER WALTER WALL	N/A
X EX WAL	ALTERNATIVE METHOD FOR DETERMINING CL INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
EK NITE	Clearance:	IN THE TEXT STEEL .	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	The My My M	N/A
Y.3	Resistance to corrosion	TER LIER WIFE WIFE	N/A
Y.3	Resistance to corrosion	Mr. M. R.	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TEX MULTER MULTER MULTER	N/A
Y.3.2	Test apparatus	Et JET JET JET I	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	Mur Mr. M.	N/A
Y.3.4	Test procedure:	LET TET JET J	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mrs	The state of the state of	TEN WITE WILL MAL	The The	
Y.3.5	Compliance	70, 7	N/A	
Y.4	Gaskets	CLIEB MILE MILE	N/A	
Y.4.1	General	70, 7	N/A	
Y.4.2	Gasket tests	WILL WILL MALL A	N/A	
Y.4.3	Tensile strength and elongation tests		N/A	
411	Alternative test methods:	THE MULT WALL WAS	N/A	
Y.4.4	Compression test	L St St St	N/A	
Y.4.5	Oil resistance	e with our our	N/A	
Y.4.6	Securing means	at let let	N/A	
Y.5	Protection of equipment within an outdoor encl	osure	N/A	
Y.5.1	General	et let jet	N/A	
Y.5.2	Protection from moisture	her mer me in	N/A	
MILIE	Relevant tests of IEC 60529 or Y.5.3:	Et TEX TEX NO	N/A	
Y.5.3	Water spray test	Mr. M. M.	N/A	
Y.5.4	Protection from plants and vermin	Y TEN LITER OLITER	N/A	
Y.5.5	Protection from excessive dust	41 41 21	N/A	
Y.5.5.1	General	LEK CONTIE	N/A	
Y.5.5.2	IP5X equipment	7 1	N/A	
Y.5.5.3	IP6X equipment	IF RITE WILL WA	N/A	
Y.6	Mechanical strength of enclosures		N/A	
Y.6.1	General	THE WALTER WALL	N/A	
Y.6.2	Impact test:	The state of	N/A	



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Jr.	ani.	The true of	EN IEC 62368-1	TER INCTED WHITE W	ree men men
	Clause	Requirement – Test	The Albert All All	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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	CENELEC COMMON MODIFICATIONS (EN)	LIER WILL WALL WALL WA	Р
MULIER O	Clause numbers in the cells that are shaded light grader 12020+A11:2020. All other clause numbers in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	PANITE F
neit white	Add the following annexes: Annex ZA (normative)Normative references to intern corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	THE WATE WALLE WAS	EK MAI
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 exposure level from 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-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. $E = \int_{0}^{T} p(t)^2 \mathrm{d}t$	ALTER WALTER WALTER WALTER	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	

de	The The The The	LITE CLITE WALL WALL	an
3.3.19.4	sound exposure level, SEL	The sales of the	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	united white white white	
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	STEEL MUTTE MUTT MUTT ON	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	ex uniter uniter uniter uni	
	of the the title mile	UNLIER WALTE WALL WALL	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	et tet stet stet	
3.3.19.5	digital signal level relative to full scale, dBFS	no mo m	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	TEK WILLER WILLER WILLER W	
	value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	anifet unifet whilet unif	
	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.	MULTER WHITER WHITER WHITER	
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	+ , t	N/A
	Replace 10.6 of IEC 62368-1 with the following:	TE WITE WITE WALL WALL	
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.	MILIER WHITE WHITEK WHITEK	
	A personal music player is a portable equipment intended for use by an ordinary person , that: - is designed to allow the user to listen to audio or	ETER WHITE WHITE WHITE WHI	
	A personal music player is a portable equipment intended for use by an ordinary person , that: - is designed to allow the user to listen to audio or 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	THE WALTER WALTER WALTER WALTER	
	A personal music player is a portable equipment intended for use by an ordinary person , that: - is designed to allow the user to listen to audio or 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 intended for the user to walk around with while in continuous use (for example, on a street, in a	LIEE WALTER WALT	
	A personal music player is a portable equipment intended for use by an ordinary person , that: - is designed to allow the user to listen to audio or 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 intended for the user to walk around with while in	LIER WHITE W	



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20,	EN IEC 62368-	The war were	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
Alex.	NOTE 1 Protection against acoustic energy sources from	C WILL MILL MILL	Mr. Au.
	telecom applications is referenced to ITU-T P.360.	1 1	LET LET
	NOTE 2 It is the intention of the Committee to allow the	SLIFE MLIE MALIE	aver aver
	alternative methods for now, but to only use the dose	24. 24. 25.	1 1
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	LET THE THE	LIEN WITE OF
	possible.	Arra Mar. Mr. M.	2
	Listening devices sold separately shall comply	a st st s	et det s
	with the requirements of 10.6.6.	The mile unit was	and an
	These requirements are valid for music or video	100	
	mode only.	TEX LIFE SLIP	white white
	The requirements do not apply to:	Mr. Mr. M.	2,
	- professional equipment;	at at at	TEK TEK
	NOTE 3Professional equipment is equipment sold through	WILL WILL WILL A	he sur
	special sales channels. All products sold through normal electronics stores are considered not to be professional	10. 4.	et et
	equipment.	TEX ITEX STIES ON	ir area on
	A CH TEN TEN WITH MILL ON	2 Mr. Mr. M.	
	 hearing aid equipment and other devices for assistive listening; 	t at at a	
	the following type of analogue personal music	in with white white	24.
	players:	1 1 x	LIK TEK
	long distance radio receiver (for example, a	TER STEEL WITE	WILL WILL
	multiband radio receiver or world band radio	"Nu nu nu	
	receiver, an AM radio receiver), and	et TEX	LIET SLIE .
	cassette player/recorder;	The sure of	
	NOTE 4 This exemption has been allowed because this	# J	et let .
	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	THE LIP WILL WALL	The M
	extended to other technologies.	24. 20. 2	
	– a player while connected to an external amplifier	TEN TEN LIE	WITE WILL
	that does not allow the user to walk around while	The Me Me	20.
	in use.	the state of	TEX TEX
	For equipment that is alcorly designed or intended	CALIFE MALTE MALTE	ne ne
	For equipment that is clearly designed or intended primarily for use by children, the limits of the	20 20 1	et let
	relevant toy standards may apply.	TER LIER LIER W	الم الله الله
	At at the the mile will will an	he we we we	
	The relevant requirements are given in	at at at a	The City
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	with mer mer	20,
10.6.1.2	Non-ionizing radiation from radio frequencies	1 to the set	N/A
21/20 2	in the range 0 to 300 GHz	" INLIE MILLE MALL	Mr. Mr.
	The amount of non-ionizing radiation is regulated	20, 7, 1	et et
	by European Council Recommendation	TER LIER SLIER	reit inti
	1999/519/EC of 12 July 1999 on the limitation of	the the the to	
	exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	at at at	TEN TEN
	For intentional radiators, ICNIRP guidelines should	The MULL WALL AND	2/1, 2/1,
	be taken into account for Limiting Exposure to		+ 1 1
	Time-Varying Electric, Magnetic, and	Et LIER SLIER CLIE	WILL WELL
	Electromagnetic Fields (up to 300 GHz). For hand-	11, 11, 11,	
	held and body mounted devices, attention is	1 1 1	16 16 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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Victor Aurilla	EN IEC 62368-1			in the	
Clause	Requirement – Test	all all an	Result – Remark	LEK S	Verdict

10.6.2	Classification of devices without the capacity to estimate sound dose		N/A
10.6.2.1 WILLER	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>τ</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>τ</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. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> _{Aeq} , <i>τ</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 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	Not such equipment	JONA JONA
	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 LAeq, r 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	UNLIER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WAL	EK N/A ITEK INITEK INITEK INITEK INITEK INITEK INITEK



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	Delition (C) Tell (C)	D	13, 11
Clause	Requirement – Test	Result – Remark	Verdict
ap.	an we the the the	e with white while	21/2 211
10.6.2.3 SUPER SUPER SUPER SU	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 <i>L</i> Aeq, <i>τ</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	ANTER WHITER WHI	N/A PLITER WINE WINTE WINTE WINTE
"ALL	simulation noise" as described in EN 50332-1.	the still spain such	mr m
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Whitek whitek whitek	N/A
10.6.3	Classification of devices (new)	A A A	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	Not such equipment	N/A
Who .	below.	THE MILE WALL	Wer are
10.6.3.2 TELL WILLER MILITER MILITER	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, r 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	United Whited Wh	EX WILLEY WHITE WHITE TEX WILLEY WILL WI
500	simulation noise" described in EN 50332-1.	to the set set	
0.6.3.3	RS2 limits (new)		N/A

RS2 is a class 2 acoustic energy source that does not exceed the following:

– for equipment provided as a package (player



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
The s	M M TEN TEN	the wife with aller	we we
	with its listening device), and with a proprietary	200	J. J. J.
	connector between the player and its listening	LEK TEN TEN	NITE OF THE
	device, or where the combination of player and	Will all all a	20
	listening device is known by other means such as	20	at at
	setting or automatic detection, the weekly sound	Let LET JET J	The State of
	exposure level, as described in EN 50332-3, shall	the super when the	20, 2
	be ≤ 80 dB when playing the fixed "programme		L St.
	simulation noise" described in EN 50332-1.	at the state state	1000
	- for equipment provided with a standardized	The Me The	20,
	connector (for example, a 3,5 phone jack) that	1 1	11 12
	allows connection to a listening device for general	LEF SEE SEE	Will William
	use, the unweighted r.m.s. output level, integrated	The way we	24 2
	over one week, as described in EN50332-3, shall	1	J+ J+
	be ≤ 15 mV (analogue interface) or -30 dBFS	LEK TER LITER O	Little Marie
	(digital interface) when playing the fixed	With My My My	
	"programme simulation noise" described in EN		et let
10.6.4	50332-1.	THE STATE WITH MIT	NI/A
L 24	Requirements for maximum sound exposure	, m,	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum	21/2 21/2 22	
	during tests.	L A A	184 CH
	Measurements shall be made in accordance with	STEEL STEEL STATE OF	Vr. ZIV.
		4 4	
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.	at the same	N/A
10.6.4.2	Protection of persons	" " " "	IN/A
	Except as given below, protection requirements for		L St.
	parts accessible to ordinary persons,	and the state of the	1912 M
	instructed persons and skilled persons are	in the the the	20.
	given in 4.3.	the state of	.00
	NOTE 1 Volume control is not considered a safeguard .	MITER WALTER WALTER	Muria auri
	Between RS2 and an ordinary person , the basic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Et Et
	safeguard may be replaced by an instructional	THE LIFE SLIPE OF	Mr. William
	safeguard in accordance with Clause F.5, except	We will all a	
	that the instructional safeguard shall be placed	1 1	EX TEX
	on the equipment, or on the packaging, or in the	THE LITE OUT OUT	1912 191
	instruction manual.	1 24 24 20	
	Alternatively, the instructional safeguard may be	1 1 1	- 18th 3
	given through the equipment display during use.	the still out to with	me me
	A LEK TEK TEK MIT MILL MILL	211, 21, 20,	
	The elements of the instructional safeguard	the state of	TE TE
	shall be as follows:	NITE WILL WALL	11/2
	the the the the	20, 20, 20	
	- element 1a: the symbol , IEC 60417-	at at at	THE LITE.
	6044 (2011-01)	alife mile and and	100
	– element 2: "High sound pressure" or equivalent	20, 20	el el
	wording	A ST ST ST	TE IS
		The Will Mary Mark	211 211
	element 3: "Hearing damage risk" or equivalent wording	70 20	
	wording	L A B B	of of
	- element 1: "Do not listen at high volume lovels		
	- element 4: "Do not listen at high volume levels	intite and white	21/2
	element 4: "Do not listen at high volume levels for long periods." or equivalent wording	MULLE MULL MULL	Mr. M.



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
2/10	M M The State of	The street of th	11/2 2/11
	of an ordinary person to an RS2 source without	70 7	A 15
	intentional physical action from the ordinary	LEK TEK TEK	Will Will
	person and shall automatically return to an output	Will AUG AUG A	11. 20.
	level not exceeding what is specified for an RS1	20	16 15
	source when the power is switched off.	at let see s	The State of
		recommendate and	2, 2,
	The equipment shall provide a means to actively		+ + .
	inform the user of the increased sound level when	at the the	
	the equipment is operated with an output	The The The	20, 2,
	exceeding RS1. Any means used shall be	1 1	21- 25
	acknowledged by the user before activating a	THE GET STEE	WILL WILL
	mode of operation which allows for an output	Mr. Mr. Mr.	2, 2,
	exceeding RS1. The acknowledgement does not		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	need to be repeated more than once every 20 h of	THE SHEET STILL IS	TELL TOTAL
	cumulative listening time.	Wer are are a	
	NOTE 2 Examples of means include visual or audible signals.		Et LET
	Action from the user is always needed.	THE LITER SLIPE WAY	in an
	and the set of the second	The Mr. M.	
	NOTE 3 The 20 h listening time is the accumulative listening	1 1 1 1	· <
	time, independent of how often and how long the personal music player has been switched off.	the little out to will	The The
	music player has been switched on.	2115 211 20	
	A skilled person shall not be unintentionally	at at the	TEK LIE
415 21	exposed to RS3.	The wife along	14.
10.6.5	Requirements for dose-based systems		N/A
0.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as	2 2	1 1
	provided below when tested according to EN		
	50332-3, using the limits from this clause.		118
	100002 of doing the little from this oldese.	e a de de	20. 0.
	00002 o, doing the infine from this claded.	an an an	
	The manufacturer may offer optional settings to	The the ties	ALTE MITE
	TEX TEX THE STIFF MINT WITH MIN	NATER WILLER WATER	MITE MITE
	The manufacturer may offer optional settings to	Whitek whitek whitek	white white
	The manufacturer may offer optional settings to allow the users to modify when and how they wish	whitek whitek whitek	white white
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to	Whitek whitek whitek	MULTER WALTER
	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	Whitek whitek whitek	MILITE MILITER
	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	MUSTER MUTER MUTER	White White
	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	JEEK WEIEK WEIEK WEIEK	White White Martest Wartest
	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,	Whitek wh	MULTER WALTER
	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	Whitek wh	MILIE WALTER MITER WALTER MEET
	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	Whitek	MILIER WHITE MITER WHITER MER WHITER WHI MINISTER WHITE MINISTER WHITE
	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	Whitek wh	MILIE MILIER MILIER
	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	MILIE WALTER MILIER WALTER MILIER WALTER MILIER WALTER MILIER WALTER MILIER WALTER MILIER WALTER
	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	Whitek wh	WILLER WALTER WILLER WILLER WILLER WILLER WILLER WILLER WILLER 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	Whitek wh	MILIE WALTER MILIER WALTER MIL
	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	Whitek wh	MILIE WALTER MILIER WALTER
	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 how to use the system safely. The user shall be	JUNITER WHITER W	MILIER MILIER MILIER
	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 how to use the system safely. The user shall be made aware that other sources may significantly	JUNITER WHITER W	MILIE WILLEY MILIER
	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 how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example	JUNITER WHITER W	MULTER WALTER MULTER
	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 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	Whitek wh	MILIE WALTER MILIER
MALIER WAS	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 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.	JEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	MILIER WHITE MI
TEX WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	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 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. Dose-based warning and requirements	Whitek wh	MILIER WALTER MILIER
MALTER WALTER WA	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 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.	JUNITER WHITER W	MILIER WALTER MILIER



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lause	EN IEC 62368-1		
	Requirement – Test	Result – Remark	Verdict
ale.	AN THE STATE OF TH	and the suntil sunt	me m
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	L A	LET LET
	decrease to compliance with class RS1.	TER STEEL WITE OF	VIS. WUT.
	The state of the s	24 24 24 24 2	
	The warning shall at least clearly indicate that	at at let o	TEN LITER .
	listening above 100 % CSD leads to the risk of	STE WILL MUT. MUT.	20 20
ال ب	hearing damage or loss.		<u> </u>
0.6.5.3	Exposure-based requirements	EX IEX LITER MITE	N/A
	With only dose-based requirements, cause and	44. M. M. M.	
	effect could be far separated in time, defying the	at let let	JE SIE
	purpose of educating users about safe listening	THE WALL WALL	21/2 21/2
	practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	20.	* 1.t
	term sound level a user can listen at.	TEN TEN LITER O	LITE MILA
	torri sociili ioro, a asor cari iiotori a.i.	ner mer mer in	
	The exposure-based limiter (EL) shall	a at at a	EN TEN
	automatically reduce the sound level not to exceed	THE RITE WITE WALL	211, 211
	100 dB(A) or 150 mV integrated over the past 180	20 20 2	26
	s, based on methodology defined in EN 50332-3.	A LET THE LIFE	ALT MLT
	The EL settling time (time from starting level reduction to reaching target output) shall be 10 s	and any and	20 20
	or faster.	1 4 4	LEN LEN
	the same of the test	LIEB SLIE WITE W	Wry Myr
	Test of EL functionality is conducted according to	74. 74. 22. 1	1 1
	EN 50332-3, using the limits from this clause. For	at the same	TER LITER.
	equipment provided as a package (player with its	" " " " "	20 2
	listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided		t et .
	with a standardized connector, the unweighted	CE TO STAN MIT	ary are
	level integrated over 180 s shall be no more than	in in in	
	150 mV for an analogue interface and no more	at the set	JE - JE
	than -10 dBFS for a digital interface.	WILL WILL WALL	Mrs Mrs
	NOTE In case the source is known not to be music (or test	70. 10	at at
الماني المام	signal), the EL may be disabled.	THE LITTER STITES	Marin Marin
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	in the the	
	listening device, and with the volume and sound	at the title	- J. E. J.
		The Will Mile	all all
		20, 20	- N- N
		THE SHE STORY	WILL WILL
		The Mr. M.	20
	when playing the fixed "programme simulation	at at at	TEX TEX
	noise" as described in EN 50332-1 shall be ≥ 75	ALTER MITE SIRLY WA	110
	mV.	20, 20,	4 14
	NOTE The values of 04 dP and 75 mV segregated with 05 dP	et let let il	The street
		The Mar Mar Mar	20, 20,
ek watte	and 27 mV or 100 dB and 150 mV.		4
0.6.6.2	Corded listening devices with digital input	L A ST ST	N/A
0.6.6.2		A WILL WILLER	N/A
0.6.6.2	Corded listening devices with digital input	MULTER WHITER WHITER	N/A
	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	MALIER WALTER WALTER WALTER	WILL A



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	EN IEC 62368-1	The write where whi	
Clause	Requirement – Test	Result – Remark	Verdict
alle.	an an a tel of	ALTE MET WALL	The All
unliek unli	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	Militel Militel Militel	antiek aniek
10.6.6.3	Cordless listening devices		N/A
Whitek wh	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, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	EL WHITE WHI	JUNE JUNE TEX JUNE JUNE TEX JUNE JUNE JUNE JUNE JUNE JUNE JUNE JUNE
10.6.6.4	Measurement method	WITE WILL WILL	N/A
NITES IN	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Mat	LIFEK NITEK NI
3	Modification to the whole document		N/A



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AV	1/2 1/2 1/2	30 1 19 11 11 11		
. m		EN IEC 62368-1		
Clause	Requirement – Test	The The The	Result – Remark	Verdict

lote 5.4 lote 2 5.4 lote 2 5.4 lote 5.4	4.1.15 5.4.2.3.2.2 Γable 12 5.4.2.5 5.4.10.2.2 5.5.6	Note c Note 2 Note Note Note	4.7.3 5.4.2.3.2.4 5.4.5.1 5.4.10.2.3 5.6.4.2.1	Note 1 and 2 Note 1 and 3 Note Note Note Note Note 2 and 3 and 4
Ta Iote 2	Table 12 5.4.2.5 5.4.10.2.2 5.5.6	Note 2	5.4.5.1	Note Note Note Note 2 and 3
lote 5.	5.4.10.2.2	Note	5.4,10.2.3	Note Note 2 and 3
lote 5.	5.5.6			Note 2 and 3
lote 5.	5.5.6			Note 2 and 3
		Note	5.6.4.2.1	production of the second production of the second
lote 2 5.	5 7 8			
	2.7.0	Note	5.7.7.1	Note 1 and Note 2
Diake.	10.2.1 Γable 39	Note 3 and 4 and 5	10.5.3	Note 2
lote 3 F.	F.3.3.6	Note 3	Y.4.1	Note
lote	93			3
		AT AV		V .0V .N
Clause 1				
g note: f certain substance t is restricted withir			MULTER WAL	EL WHITE WHI
Clause 1 g note:			white whi	



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Clause	Requirement – Test	Result – Remark	Verdict

4.21 JUNETER JUNETER JUNETER JUNETER	Add the following new subclause after 4.9: 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	Not directly connected to the mains	N/A SURLEY SURLE
in white	of the wall socket outlet.	the stile with a with and	, 200
6	Modification to 5.4.2.3.2.4	A- 10 AV 3	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.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.5.1	Add the following after the first paragraph:	The the wall and	N/A	
	For RS 1 compliance is checked by measurement under the following conditions: 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	JUNITER WHITE WHITE WAS	MULL MULLER MULL	
	give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	WHITEK WHITEK WHITEK	WALTE WALTE	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	WALTER WALTER WALTER	VILL MUEL	
	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.	TEX WALTER WALTER WALTER	TER ON TE ON	
	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.	whitek whitek	UNLIEK WALTER	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	it air with will	EK MUTEK MU	
t JEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	The set set	- JE - AJE	
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.	united united united	N/A	
10	Modification to Bibliography		N/A	



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20				
in.	M. M. A.	EN IEC 62368-1	TER UNITE WALL WAS	10 10
Clause	Requirement – Test	The The The	Result – Remark	Verdict

all.	THE THE STATE WITH MITHER THE STATE WITH MITHER WITH	20
.EX	Add the following notes for the standards indicated:	N/A
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	WILLER WAS
11	ADDITION OF ANNEXES	N/A
ZB 👉	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15 JUNETER JUNETER WALTER WALTE	Denmark, Finland, Norway and Sweden 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 socket-outlet. 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" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A N/A N/A N/A N/A N/A N/A N/A
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	N/A



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EN IEC 62368-1					
Clause	Requirement – Test	all all an	Result – Remark	LEK S	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	MALTE
	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.	sires while whiles whiles	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	ed unite white whit w	
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult me	K TEK
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Miter White White White	JUNE V
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	11 Et . 211
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	attex with mit with	EX MULTEX
	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	MILITER WHITE	- WILEY O
	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	MULLER MULLER MULLER AND	ing marie
	 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), 	UNLIEK WALTER WALTER WALTER	WALTER ON
	and white white white white white	A LEK LIER LIFER	NITEK MILI
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULTER WILLIAM	TEX MALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NITER WALLER WALLER	LANGER O
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	on it on
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	STEET STEET STEET SOLL	EK WILLEK



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	EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict			
MALIEK MI	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	TEX STEX STEEL	miret whitet			
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	TILE MUTER WATER MA	LEX WILLEY W.			
EK WALTER	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.	Est while whiles while	MULTER MULT			
5.5.2.1	Norway	TEN JEN JEET	N/A			
	After the 3rd paragraph the following is added:	Aut My Au				
164 . 16 164 . 16	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Writer Murie Murie M	er let i			
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A			
	To the end of the subclause the following is added:	et steet street states	WALTER WALTE			
	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.	Whitek Multer Multer	MITEX MALTEX.			
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:	THE WALTER WALTER	WALTER WALTER			
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNITER WHITER WAITER W	ALTER MALTE			
5.6.4.2.1	Ireland and United Kingdom	at at at a	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	stre white whi white	MILEX MUTT			
4ن پ	mains plug.	70. 1	et et			
5.6.4.2.1	France	SLIEB MITE SPLIE	N/A			
	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.	WITE WHITE WHITE W	itek mitek m			
5.6.5.1	To the second paragraph the following is added:	THE MITTER WALL WALL	N/A			
MALTER.	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.	* Whitek Whitek Whitek	WALTER WALTER			



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Unite Maria	Mr. Mr. Mr. Mr. W.	EN IEC 62368-1	rice Alleria
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Trequirement – Test	Result – Remark	Verdict
- Elli-	W V TENT	The court of the sales	-20,
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.	MULIER MULIER MULIER WILLER	N/A
5.7.6	Denmark + 11 11 11 11 11 11 11 11 11 11 11 11 1	The Mr. M. M.	N/A
	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.	MILER MULTER WALTER WALTER	MILLER VI
5.7.6.2	Denmark	et let let aller.	N/A
ek onliek	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.	Anifek whitek whitek wh	SA WALTER
5.7.7.1	Norway and Sweden	Not such system.	N/A
MITER WALTER	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.	THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	antifek van ist Stek van ist Stek van istek
wne whi	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.	unifer white white whitek	WILLER MU
	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:	A MULTER MULTER MULTER MULTER	TEK WALTE
ontiek on tiek ontif tiek ontif to	"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,	Whitek whitek whitek whitek w	Junitest and State of the State
Whitek W	see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and	UNLIEK WALTER WALTER	MILIER



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
10/20		LIE SLIER WILL WA	711-		
WALTER WA	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.	TITEL WILEY WILEY WHITE	MULLER W		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sure whitek whitek whitek	WALTER WALT		
	"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	et united united united united	LE WALTER		
	isolator mellom apparatet og kabel-TV nettet."	of let let let	- NITEK IN		
yn yn ife Hef yn ife Hyn ifet	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 WALTER WALTER WALTER	un itek unit Liek unitek Mitek		
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: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	unifek unifek	WALTEX WALTE		
	required where there is a risk of personal injury.	110, 14, 24,			
B.3.1 and B.4	Ireland and United Kingdom 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 the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A		
G.4.2	Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a	Not directly connected to the mains	N/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-	THE WALTER WALTER WALTER WA	LA MUTER		
WALTER ON	outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	tiet wifet wifet mile	MUNITEK W		



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200	EN IEC 62368-1	is the the all a	200
Clause	Requirement – Test	Result – Remark	Verdict
april	The the the the	the city with only who	11/1
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	at the set of	X NIEY
	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.	JUNETE WALTER WALTER WALTER	WATER ON
	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.	Whitek whitek whitek whi	E WILLEY
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX MUTER MUTER MUTER	un liek wi
	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	ATTER WHITER WHITER WHITE	ir ik walifik
	Justification: Heavy Current Regulations, Section 6c	Why will the writer	MITEK
G.4.2	United Kingdom	Not directly connected to the	N/A
WALTE	To the end of the subclause the following is added:	mains	N. Er WI
MILITER OF	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	se white whitek outstek
G.7.1	United Kingdom	e at at let	N/A
	To the first paragraph the following is added:	MULL MULL MULL MULL	71/1
	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.	MALIER WALTER WALTER WALTER	er whitek
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et whitet whitet whitet	TIEST WALTE



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EN IEC 62368-1					
Clause	Requirement – Test	all all an	Result – Remark	LEK S	Verdict

To the first paragraph the following is added:	THE STEEL STIFF SHITES	N/A
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	WAS WILLER WALLER WALLER WALLER	EK MILI EK MILI - TEK
Ireland and United Kingdom	MULTER MULTE MULL MULT	N/A
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.	UNLIER WHITER WHITER	inter o
ANNEX ZC, NATIONAL DEVIATIONS (EN)	is me me m	N/A
Germany The following requirement applies: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive	No CRT within the equipment.	N/A
96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	whitek whitek whitek	MALTER .
	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 Ireland and United Kingdom 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 10 A and up to and including 13 A. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	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 Ireland and United Kingdom 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 10 A and up to and including 13 A. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-33116 Braunschweig.



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EN IEC 62368-1					
Clause	Requirement – Test	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	d 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-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords	d	H05Z1Z1-F H05Z1Z1H2-



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, Juni	111, 121, 11,	EN IEC 62368-1	TER WILL MULL AN	rig Mrs. Mrs.
Clause	Requirement – Test	in their and the	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy source	es			P
Supply Voltage	Location (e.g.	Test conditions		Param	eters		ES Class
voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
5.0VDC	The EUT is	Normal	<60Vdc	n -n	SS	DC	ES1
	designed to be supplied by USB type-C port	Abnormal	Jak .	TER TILE	JOLIAN S	Vice Aller	(declare
		Single fault – SC/OC	- Ch Ch 	y Tek	CLIEK- NY	EX -	
3.7VDC	The EUT is	Normal	<60Vdc	14, 7,	SS	DC	ES1
	designed to be supplied by	Abnormal	(1) - (1)	ilier al	15th 115th	WILL M	(declare
	Internal Li-ion battery	Single fault – SC/OC	- Elk	764 76	LIEX LIEX	nite l	EK WALT

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

5.4.1.8	TABLE: Working	voltage measur	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
	at at a	the state states	with mit	11/2 11	- L 34
ur _{ties} en	in me me	n		- 5 ² - 5	EL RITER NATE WALL
Suppleme	ntary information:				
Tr apr	we we	an -	A d	TEX SET	alle with whi wh

5.4.1.10.2	4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method			: ISO 306 / B50			
Object/ Part No./Material Manufacturer/trademark			Thickness (mm)	T softening (°C)		
- 4	CER TER TER	"WILL AND AND AND	40, -40, 40	at at - at		
Supplemen	tary information:					
A 18	- TEX JEST	WITE WILL MAY WAY	2/1 2/2 -	at at a		

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N/A	
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm						_
Object/Part No./Material		Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Impi diame	ression eter (mm)



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			EN IEC	62368-1	LIER IN			
Clause	Requiremen	nt – Test	in with M	20	Result	– Remark	et .	Verdict
- 1.k	THE THE	18th - 15th	t olitet my	SUN!	W L	Week	T. In	r - 54
Suppleme	ntary information	on:					- No.	
Suppleme	mary information	UII.	MIT WALL	10	20			, it

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage 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:			0	300		, _,,n	- N	70 - ·
1) Only for frequency above 30	kHz	7	, et	Alt (56 JU	E. JOLIA	W. A	no m

2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2	TABLE: Minimum	n distance through insu	lation		N/A
Distance to (DTI) at/of	hrough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DT (mm)
- CLIFER	ULLE WILL WALL	an an	7+ - 15+	TEN TEN	LIFE WATER
Suppleme	ntary information:				
*See also	sub-clause 5.4.4.9	7 74		TEN ST	TER WITE NA
		Et IF MITE	160 - 1	20, 20,	

5.4.4.9	TABLE: Solid in	TABLE: Solid insulation at frequencies >30 kHz						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$								
7/11 2	.L .J+ .	# 18th	TEN MIT	- while is	VII. MUL	21/2 - 27/	- ~	
Supplementary information:								
20.	t at all	- Jet	LIER WALTE	Why. We	in the	21, 24,	4	

5.4.9	TABLE: Electric strength	tests		N/A	
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	(V) Breakdown Yes / No	
Functional:	24 24	TEK TEK SITEK OLI	E MILL MALL V	no me	
18th - 5	EL SLIER WITE WHITE	Mr. Mr. M. M.	- 4 1	et at s	
Basic/supple	ementary:	TER STER STEE SHIP	while me me	All All	
TEX JEX	CLIFE WITE WALL V	Nr. 14 - 10	- * *	LUIST SUIFE	
Reinforced:	7" × 2+	TEX STEE WITE WITE I	arra were man	211. 211.	
St Clerk	WITE WALL MALL MA	+	at left state	SITE! SITE!	
Routine Tes	sts:	L OLIER WITE WHILE WIN	The Me	20, 20,	
- NITER IN	The WALL MALL MALL	70 - x x	- THE SHE	LIER INCIES NO	



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EN IEC 62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				

		- 10-		1700			22.17	200		
Supplementary	/ information:									
MUT. MUT.	2/2 2/1	 . ,.	J.	JEK	. CLIER	MITE	WITTE	MALL	Mer	10

5.5.2.2	TABLE: Stored discharge on capacitors								
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class			
- JEK	LIEN OF	TER WALLE WALL	Normal		d -d	TEX TEX			
24 Z	est de	L strek strek	Single fault: SC/ OC	unite uni	'n' ''	7 7 17 14			

Supplementary information:

X-capacitors	installed for	testing	are:

- [] bleeding resistor rating:
- [] ICX:
- 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6	TABLE: Resistance of protective conductors and terminations							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
To an		g CTEX	LITE - TO	Chr. mr.	24 - 24			
Suppleme	entary information:							
211.	The state of	LEK SLIFEK (LITE WALL WALL	me me	24, 24,			

5.7.4	TABL	E: Unearthed accessible parts						
Location		Operating and Supply		F	Parameters		ES class	
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
IT'EN WILL	WILL	Normal	70, - ×	J+ J+	TEK JEK	NITE N	Lite - Wi	
		Abnormal: overload	LIER WHILE	mrm.	ne in .		er -	
		Single fault: SC/OC	EK WILLEY W	life Marie M	in Mar m	* '6	1 TEX	
Suppleme	ntary info	ormation:			- //			
SC= short	circuit: 0	DC= open circuit	110 110	24. 24.		4	24	

5.7.5	TABLE: Earthed acces	cessible conductive part						
Supply voltage (V)			The second of th					
Phase(s)		[] Single Phase; [] Three						
Power Dist	ribution System::	[]TN []TT []IT	t let le	t like wife				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current Comme (mA)		nt			
415 M	. 41. 44	14 - 14 5th	JULE - JULE	anci and	211 211			



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EN IEC 62368-1								
Clause	Requirement – Test	Result – Remark	Verdict					

				-1	 AV			100		500	
Supplement	tary Inforr	mation:									
J. J.	7 160	- 11	10	-07		- de-	<i>A</i> -	10	150	- 17	
The same											

5.8 TABLE: Backfeed safeguard in battery backed up supplies N/A								
Location	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class		
2 ₁₁ , 2 ₁ ,		At - At 1	LITER - MITE	MULL MULL	715, 1	12 70		
Supplementary information:								
20, 20, 1		S 45 45	E. The	Why Why	an an	2, ,		

6.2.2	TABLE: Power source circuit classifications									
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class				
Input (5VDC 0.3	A) Wh	5.0	0.3	1.5	38	PS1				
Battery	Normal / Abnormal	2.865	2.4	6.88	38	PS1				

Supplementary information:

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

6.2.3.1	TABLE: Determ	ination of Arcing PIS		THE THE	N/A			
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No			
-21/Vr. 21	e m m		TER STER WIT	MILTE - WALL	Bar Mr.			
Supplementary information:								
and my	10, 10,	1 1 1 1 1	ET STEE STEE	MILLE WALL W	Tr. Mr. M.			

6.2.3.2	2 TABLE: Determi	TABLE: Determination of resistive PIS							
Locati	ion	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
10	70.	at let the mile in	with any	70, -20,					

Supplementary information:

Supplementary Information:

All circuits 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.

All conductors and devices are considered as PIS.



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Ġ	The Maria	Mr. Mr. M. A.	EN IEC 62368-1	TEL MITER WALLER WA	211	211
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	jt . 1	Verdict

8.5.5	3.5.5 TABLE: High pressure lamp							
Lamp manu	ıfacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No			
- 2	* *	Et JEK JIEK	- Will Mull M	in in	20, - 2,			
Supplemen	tary information:							
Supplemen	tary information:	at at at	inti inti inti	21/2 - 21/	<i>a</i> , ,			

9.6 TA	BLE: Tempe	rature mea	suremen	ts for wirel	ess powe	r transmitte	ers	N/A
Supply voltage	(V)		:	20.	L St	ret .	18th 15	
Max. transmit p	ower of trans	mitter (W)	: 5	LIET WALLE	WILL.	me m	- m	_
				ceiver and t contact		iver and at of 2 mm		eiver and at ce of 5 mm
Foreign object	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel disc	- J. C. (1)	JE WILL	ALL.	10, 10	- 2	,_	,,,	et Jek
Aluminium rin	g	- 1	4	J-12 - J-17	T. OLIVE	WILLE W	in an	- m.
Aluminium fo	il _	- /	5	``		//		(6)
Supplementary	information:							

5.4.1.4, TABLE: Temperature measurements 9.3, B.1.5, B.2.6										
Supply voltage ((V)			5Vdc (1)	3.7Vdc (2)	To Tma (1)	To Tma (2)	_		
Ambient temper	ature durin	ng test $T_{ m amb}$	(°C)	See below	See below	See below	See below	_		
Maximum meas	Maximum measured temperature <i>T</i> of part/at:				T (°C)					
Button	White A	in an		29.7	27.2	- JEH	ALTER-	77		
Battery Wire	At .	TEN JE	it with	33.3	30.7	43.3	40.7	80		
Speaker wire	nr m	10	, ,	37.3	35.2	47.3	45.2	80		
PCB near IC1	LEF SE	K CLEK	N. L.T.	47.9	35.9	57.9	45.9	105		
Battery body	in the	24	,	41.4	35.8	51.4	45.8	Ref.		
Enclosure inside				30.6	27.6	40.6	37.6	80		
Enclosure outside				30.0	27.1	No. of the second	MULT W	77		
Ambient			25.0	25.0	35.0	35.0	t the			
Temperature T	of	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed	Insulation		



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Unite Maria	Mr. Morring Mr. M.	EN IEC 62368-1	rice Alleria
Clause	Requirement – Test	Result – Remark	Verdict

winding:						T _{max} (°C)	class
THE WALL WALL OF	" "m	10	Ŧ	/d\	CER -CER	SLIP MIT	10 10 M

Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 35°C.

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1.

- (1) means condition 1: Powered by type C with fully discharging battery and speaker working normal.
- (2) means condition 2: Powered by battery and speaker working normal.

B.2.5	_ T	ABLE: In	put test					Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	4	0.27	0.3	711	7 Est	cie le.	LTEX-	Empty battery and charged by USB type-C.
MITTER	MILT	WALTER	MULTE	11. 11	z. 20,	*	jt _{{E}}	Speaker working with 1/8 Max non- clipped output power.
3.7Vdc		0.034	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J. 100 S	200		1970	Speaker working with 1/8 Max non-clipped output power.

Supplementary information:

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

B.3, B.4	TABLE: Abnor	mai operatin	g and tau	it condit	ion tes	STS		of Page
Ambient tem	nperature T _{amb} (°	C)				See b	elow	_
Power source	ce for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng :		at at all	_
Component No.	t Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	n
IC1 pin 12- 14	S-CULLER MELTER	5VDC	10mins	y ie waite	WAL		Unit shut down immed damage, no hazards. Input current: 0A.	diately, No
IC1 pin 13- 14	S-C	5VDC	10mins	MUZE.	Mille Tex	-Juner -Juner	Unit shut down immediately, N damage, no hazards. Input current: 0A.	
Q1	S-C	5VDC	10mins	nt - w iek - wii	, nr	Unit shut down immediately damage, no hazards. Input current: 0A.		diately, No
Q2	S-C	5VDC	10mins	MULIEK A	WALTE	, wi	Unit shut down immed damage, no hazards. Input current: 0A.	(A)

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

^{*} Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.

¹⁾ Supply by external DC source,



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La mari	M M M	EN IEC 62368-1	hir alis
Clause	Requirement – Test	Result – Remark	Verdict

condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

- 1) s-c: Short-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.

M.3	TABLE: Pr	otection circu	iits f	or batteri	es provid	ed w	ithin	the equi	pment	Р			
Is it possible	to install the	battery in a re	vers	e polarity	position?	:	A CONT	_ éN	O LIFE MY	· _			
					C	Charg	jing						
Equipment S	Specification		Vo	ltage (V)					Current (A)	(A)			
		TEX LIER	النام،	5	ane	m.	-3	11 22	3.6				
					Batter	y spe	cifica	tion					
Non-recharg				batteries			Red	chargeabl	e batteries	scharging Reverse charging current (A)			
		Discharging	Unintentional		Charging			Discharging					
Manufacturer/type		current (A)		harging rrent (A)	Voltage	(V)	Cur	rent (A)	current (A)	charging current (A)			
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030		7.4	ئىرىن.	71 <mark>-</mark> 71-21	3.7	-101	; :	3.6	0.06	and the mai			
Note: The tes	sts of M.3.2 a	are applicable o	nly v	when abov	e appropr	iate d	lata i	s not avai	lable.				
Specified bat	ttery tempera	ature (°C)				.497	ر . ر	F)-65	T.			
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rent A)	Voltage (V)	Observation				
- "	Normal	Charge mod	de	7hour	400	0.2	246	3.7	Normal cha	arging.			
IC1 pin 12- 14	SC	Charge mode		7hours	k - EK	ani	0	UNLIESK VI	NL, NS, NE, NF				
TEK MITE	Normal	Discharge me	ode	7hour	7+	0.0	034	3.7	Normal charging.				
IC1 pin 13- 14	SC	Discharge mo	ode	7hours	NULL O	NL.	0 24	-/1/2	NL, NS, NE	, NF			

Supplementary 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.

M.4.2	TABLE: Charging sa battery	ABLE: Charging safeguards for equipment containing a secondary lithium attery							
Maximum s	pecified charging voltag	3.7	_						
Maximum s	pecified charging currer	3.6							
Highest spe	ecified charging tempera	65							
Lowest spe	cified charging tempera	0							
Battery	Operating	Measurement	Observat	ion					



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EN IEC 62368-1							
Clause	Requirement – Test	ALTE ALE ALE ALE	Result – Remark	Verdict			

manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	
Lowest specified cha	rging temperat	ure:	NITER WINL	Mr. M.	Contraction of the contraction o
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030	Normal	3.7	TEX MULTER	INITER O STEEL	The charging voltage does not exceed 3.7V and the charging current does not exceed 0.246A.
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030	Single fault – (U1 pin 10-15 SC)	3.7 Still		MALTER W	The charging voltage does not exceed 3.7V and the charging current does not exceed 0.246A.
Highest specified cha	arging tempera	ture:	et let	Jill N	TER WITE WALL WALL
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030	Normal	3.7	0	65	Stop charging.
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030	Single fault – (U1 pin 16-15 SC)	3.7	O NATE OF	65	Stop charging.

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 inte	ended for inte	nterconnection with building wiring (LPS)					
Output	Condition	11 (\(\(\) \(\)	Time (a)	I _{sc} (A)		S (VA)		
Output Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	S (VA)	Limit	
- 754	EK SITEK- MITER W	Tip Aug	n_ n	,	74	A - A	C Carlo	
mr. m.	70 - 7	A 18th	. J. 1972 . N	11/1/2	Write M	of the	21/2 - 21	

Supplementary Information:

SC = short circuit, OC = open circuit

T.2, T.3, T.4, T.5	TABLE: Sto	est to military white white white white white the				
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosure (T.4)	Plastics*	1.5	WILLER V	100	ALL 5 MALL	Enclosure remained intact, no crack/ opening developed

*See table 4.1.2 enclosure materials. Test was performed for all sources of enclosure material.

T.6, T.9 T	ABLE: Impa	ct test	r, mr	THE THE STATE OF	N/A
Location/Part	Material	Thickness (mm)	Height	Observation	



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EN IEC 62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				

20, 20,			_L _ <				A 1	11 12	
			(mm)						
write-write	11/2 11	<u> </u>	L -x	- KER	TEX	CLITE I	nlifer an	رياس مايار	, C10
Supplementar	y information:								
all water	me m	20, 0		t.	16th 6		Contraction of the Contraction o	JAN.	Mr.

T.7 T.	ABLE: Drop	test		EX TEX STEX SLIFE MITER SINGLE PART
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure	Plastics*	1.5	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementar	y information	:		

See table 4.1.2 enclosure materials. Test was performed for all sources of enclosure material.

T.8 T	ABLE: Stress	s relief test			TEX THE WILL MAY MAY	
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
Enclosure Plastic* See table 4.1.2		70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.		
Supplementar	y information:					
*See table 4.1	.2 enclosure	materials. Test wa	s performed t	or all sourc	ces of enclosure material.	

X	TABLE: Altern	BLE: Alternative method for determining minimum clearances distances					
Clea	arance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measure (mm			
-4E#	LIEN OLIER MILE	Mill Mull My My	. I st	Let Let	CIEN SLIP		
Supplem	nentary information:						
IF IT	ER WITE WITE	with mir in a		Et JEt J	EK NITER		



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EN IEC 62368-1						
	Clause	Requirement – Test	is any any	Result – Remark	Verdict	

4.1.2	TABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹		
Plastic enclosure	CHI MEI CORPORATION	PA-765A	V-0, 80°C, Min. thickness 1.5mm	UL 94	UL E56070		
PCB	Jiangxi ZHONG XIN HUA Electronics Industry Co Ltd	Interchangeable	V-0, Min.105°C	UL 94, UL 796	UL		
Internal wire	Interchangeable	Interchangeable	Min. 30V, Min. 80°C, Min. 26AWG, VW-1	UL 758	UL W		
Battery lead wire	Interchangeable	Interchangeable	Min. 30V, Min. 80°C, Min. 26AWG, VW-1	UL 758	UL WELL W		
Li-ion Battery	Shenzhen Bai Jiaying Technology Co., Ltd.	602030	3.7Vd.c., 300mAh	IEC/EN 62133- 2:2017+A1:202 1	SGS SZES21080 0549501		

Supplementary information:

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



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Photo Documentation



Figure 1 Overall view



Figure 2 Overall view



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Photo Documentation



Figure 3 Internal view

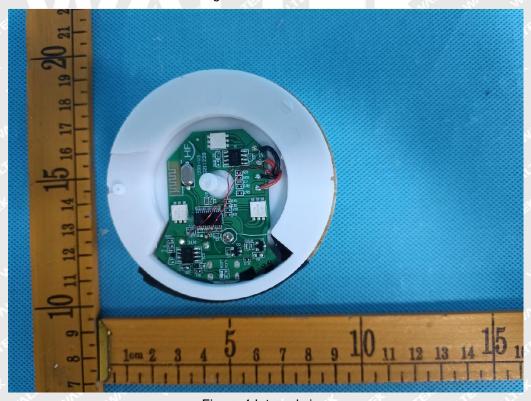


Figure 4 Internal view



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Photo Documentation



Figure 5 Internal view



Figure 6 Internal view



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Photo Documentation

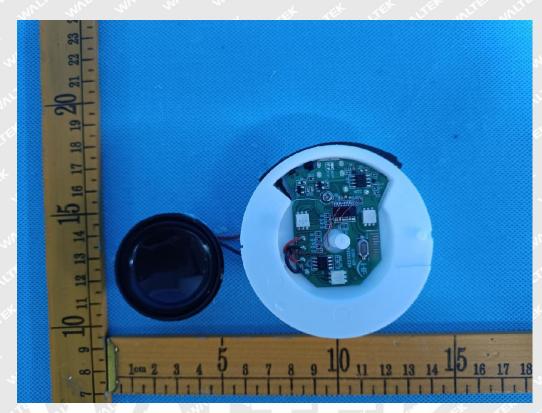


Figure 7 Internal view

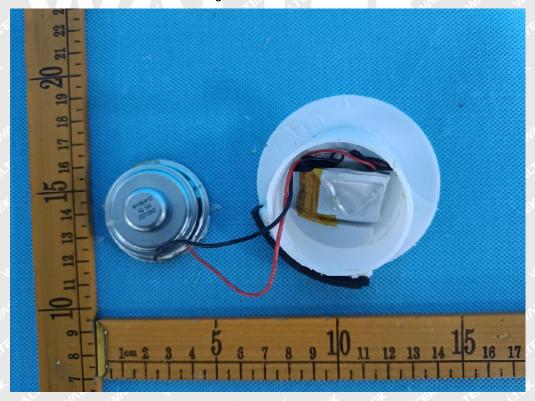


Figure 8 Internal view



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Photo Documentation

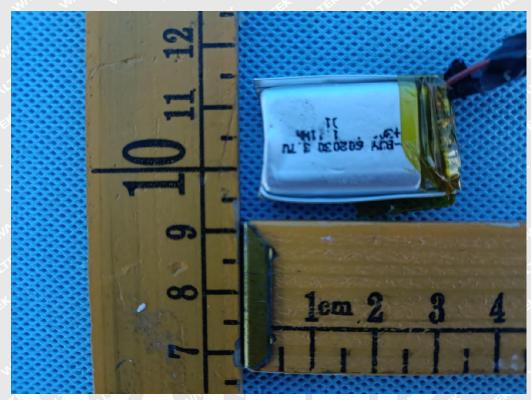


Figure 9 Battery view

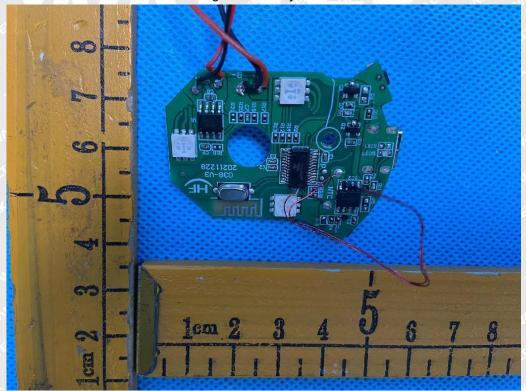


Figure 10 PCB view



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Photo Documentation

Reference No.: WTF24D03057526Y

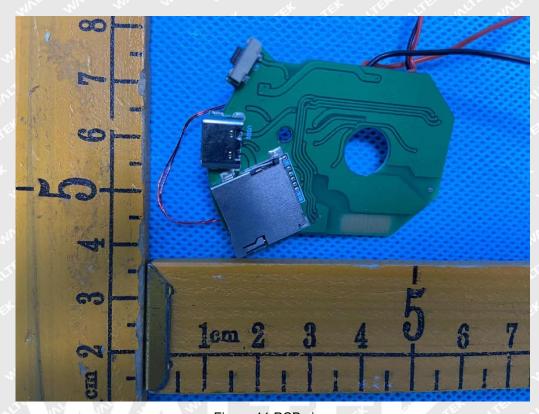


Figure 11 PCB view

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