



# **TEST REPORT**

Reference No		WTF24D05112928Y
Applicant	11/1	Mid Ocean Brands B.V.

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

Address Hong Kong

Manufacturer.....: 105198

Address....: --

Product.....: Wireless mouse in car shape

Model(s)..... : MO7641

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2024-05-17

Date of Test..... : 2024-05-20 to 2024-05-28

Date of Issue..... : 2024-05-31

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:

Glen Luo / Project Engineer

Almon Zhao / Designated Reviewer



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Test item description: Wireless mo	use in car shape
Trademark MOB	
Model and/or type reference MO7641	
Rating(s) Input: 1.5VD	C by Alkaline or zinc-carbon batteries
Remark:	
Whether parts of tests for the product have been sub	contracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab information:	
Test items:	
Lab information:	let let liet rifet rife neite mile mile
Summary of testing:	and the man is
THE WILL WILL MALL WILL WILL	
Tests performed (name of test and test clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020	No. 77, Houjie Section, Guantai Road,
at the life state state	Houjie Town, Dongguan City, Guangdong, China
The submitted samples were found to comply with the requirements of above specification.	THE TEX STEX STEX SHIER MATER MATER MATER
Summary of compliance with National Difference	s (List of countries addressed):
List of countries addressed: National Differences and checked.	I Group Differences for CENELEC countries were
□ The report fulfils the requirement of EN IEC 6236.	8-1:2020+A11:2020
Use of uncertainty of measurement for decisions	on conformity (decision rule) :
applicable limit according to the specification in th	ard, when comparing the measurement result with the lat standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
Other: (to be specified, for example when requirequirements apply)	red by the standard or client, or if national accreditation
Information on uncertainty of measurement:	
	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on the application the decision rule when reporting test results with	on of measurement uncertainty principles and applying hin IECEE scheme, noting that the reporting of the t necessary unless required by the test standard or

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

customer.

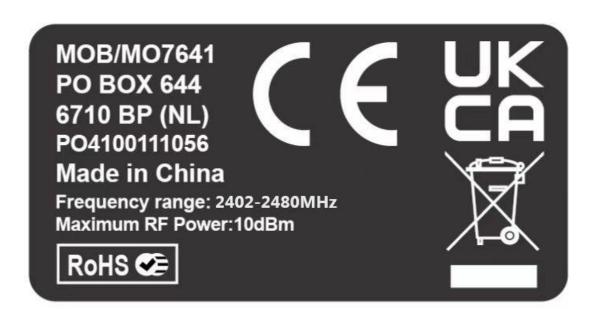
the testing.

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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:

Above label for reference only, final label marking on product shall contain the information at least. Name and address of the Importer AND Manufacturer must be affixed on the product when the product placed on the EU market.

Minimum height of CE mark is 5mm, minimum height of WEEE mark is 7mm.



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TEST ITEM PARTICULARS:	at the left the life street miles
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☑ Instructed person</li><li>☑ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	□ Location: □ building □ equipment □ N/A
Equipment mobility:	<ul> <li>         ⊠ movable         □ direct plug-in         □ wall/ceiling-mounted         □ stationary         □ SRME/rack-mounted         □ other:         □ other:         □</li> </ul>
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:	<ul><li>N/A</li><li>□ restricted access area</li><li>□ outdoor location</li><li>□</li></ul>
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°C  Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV <sub>L-L</sub> ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □ _5000m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ Approx. 0.059kg



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POSSIBLE TEST CASE VERDICTS:	The me me in the
- test case does not apply to the test object	: N/A
- test object does meet the requirement	: P (Pass)
- test object does not meet the requirement	: F (Fail)
TESTING:	The The Table
Date of receipt of test item	: See cover page
Date (s) of performance of tests	: See cover page
GENERAL REMARKS:	LIES MITE WITH WALL WALL WALL WALL
"(see Enclosure #)" refers to additional information ("(see appended table)" refers to a table appended throughout this report a ☐ comma / ☒ point is	to the report.
GENERAL PRODUCT INFORMATION:	
<ul><li>Product Description</li><li>1. The EUT covered by this report is a Wireless mo apparatus.</li><li>2. The manufacturer specified maximum ambient ter</li></ul>	ouse in car shape used as information and Audio/video
Model Differences N/A	WHIT WALL WALLEST STEEL CALLER WHITEL
Additional application considerations – (Consid	lerations 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 internal circuit	Ordinary	N/A	N/A	N/A
3	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S
PS1: All circuit	Enclosure	N/A	N/A	N/A
7	njury caused by hazardous substances			
Class and Energy Source	Body Part	Body Part Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
3	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 Part		Safeguards	
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
V/A	Ordinary	N/A	N/A	N/A

ENERGY SOURCE DIAGRAM				
ndicate which energy sources are included in the energy source diagram. Insert diagram below				
1. 10 1.	t ster ster of	ie with	Wer, Mer Mer M	20,
Let the time ES	☐ PS ☐ MS	☐ TS	□ RS	
See details in OVI	ERVIEW OF ENERGY S	SOURCES A	ND SAFEGUARDS	



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

	The same state of the same sta		- 11-0
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	Р
4.1.2 united	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	WALTER WALTER
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	P
4.4.3.1	General	2 24 24	Р
4.4.3.2	Steady force tests	THE THE	N/A
4.4.3.3	Drop tests	L Mr. Mr. Mr.	N/A
4.4.3.4	Impact tests	14 TEX STEX WITE SING	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
in Mi	Glass impact test (1J)	LIER WILL WHILE	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	N/A
4.4.3.9	Air comprising a safeguard	a state of	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	WP.
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 me me	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	W P



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AV		W. age of the	
in an	711, 71,	EN IEC 62368-1	in any
Clause	Requirement – Test	Result – Remark	Verdict

٠,٠	condition	24 25	الاد ا
Murie M	No harm by explosion during single fault conditions	(See Clause B.4)	Jul P
4.6	Fixing of conductors	See below	N/A
4	Fix conductors not to defeat a safeguard	me me me	N/A
ie. write	Compliance is checked by test	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socke	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)	M. M. M.	N/A
4.8	Equipment containing coin/button cell batteries	S LIFE OLIER MOLIE MOLIE	N/A
4.8.1	General	an an	N/A
4.8.2	Instructional safeguard	LIET WILL WILL AND	N/A
4.8.3	Battery compartment door/cover construction	a st st	N/A
m	Open torque test	et with wat with we	N/A
4.8.4.2	Stress relief test	at at at a	N/A
4.8.4.3	Battery replacement test	WALLE WHILL MALL WALL WALL	N/A
4.8.4.4	Drop test	At JER JER	N/A
4.8.4.5	Impact test	The same same	N/A
4.8.4.6	Crush test	The state of the s	N/A
4.8.5	Compliance	in mur me me a	N/A
CLIER	30N force test with test probe	A THE THE STEEL OF	N/A
	20N force test with test hook	Me Me Me Me	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	P
4.10	Component requirements	An An An An	N/A
4.10.1	Disconnect Device	TEX STEE NITER MITE	N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sou	irces	Р
5.2.2	ES1, ES2 and ES3 limits	The The The Land	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	IN P W
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	The state of	N/A
5.3	Protection against electrical energy sources	- NITER WITE WALL WALL	WP 4



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01	EN IEC 62368-	2, 40, 40, 40, 40	11/ 11/4
Clause	Requirement – Test	Result – Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Tet tet tet sti	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	The Mr. Mr. And And	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	NITEK WALTER WALTER WALTER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	ES1 circuit and the enclosure (safeguard) are accessed to person.	P W
WILLE	Accessibility to outdoor equipment bare parts	t life with with whi	N/A
5.3.2.2	Contact requirements	THE THE SECOND SECOND	N/A
iner an	Test with test probe from Annex V	ALTER MITER WALTE WALTE	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	an at the left	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIER WALL WALL WALL	N/A
5.3.2.3	Compliance	a at at at	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at at let o	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	et little	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)	P
5.4.1.5	Pollution degrees	ITE WALTE WALL WALL Y	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* TITER WITER WITER WITER	N/A
5.4.1.5.3	Thermal cycling test	The state of	N/A
5.4.1.6	Insulation in transformers with varying dimensions	CLIEB WITE WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	a state of the	N/A
5.4.1.8	Determination of working voltage	rite until until until	N/A
5.4.1.9	Insulating surfaces	a state of	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	MULL MULL MINE AND	N/A
5.4.1.10.2	Vicat test	CHIEF WITE WALTE WAL	N/A
5.4.1.10.3	Ball pressure test	The state of	N/A
5.4.2	Clearances	UNLIE MALIE WALL WALL	N/A
5.4.2.1	General requirements	L A A A	N/A
k Tek	Clearances in circuits connected to AC Mains, Alternative method	The water with white	N/A
5.4.2.2	Procedure 1 for determining clearance	ex niter white while wh	N/A
dt.	Temporary overvoltage	in the state of	_
5.4.2.3	Procedure 2 for determining clearance	STEE WITE WILL MAN	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
-1240	1.62-1-1.62-1.	TO THE PARTY OF TH	, Joseph Committee Committ
5.4.2.3.2.2	a.c. mains transient voltage	14, 14, 10,	
5.4.2.3.2.3	d.c. mains transient voltage	SLIEF WILLER WALLER	white -
5.4.2.3.2.4	External circuit transient voltage	My S. S.	<u></u>
5.4.2.3.2.5	Transient voltage determined by measurement	WILL MILLER MALLE M	LL _
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	TEK SLIEK MITEK WAI	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t ifet sitet site	N/A
5.4.2.6	Clearance measurement	The The An	N/A
5.4.3	Creepage distances	LIER NIER MITE	N/A
5.4.3.1	General	14. 24. 25.	N/A
5.4.3.3	Material group	LIFE MITER MITER AND	n –
5.4.3.4	Creepage distances measurement	, , , , , , , , , , , , , , , , , , ,	N/A
5.4.4	Solid insulation	EL WILL WALLE WALL	N/A
5.4.4.1	General requirements	* * * * * * * * * * * * * * * * * * *	N/A
5.4.4.2	Minimum distance through insulation	WILL WILL WILL	N/A
5.4.4.3	Insulating compound forming solid insulation	A SET	N/A
5.4.4.4	Solid insulation in semiconductor devices	The sunt of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	in the the	N/A
5.4.4.6.1	General requirements	the reference	N/A
5.4.4.6.2	Separable thin sheet material	Mr. Mr. M.	N/A
anlite ani	Number of layers (pcs)	THE LIFE STEE	N/A
5.4.4.6.3	Non-separable thin sheet material	m, m, m	N/A
LIFE MALTY	Number of layers (pcs)	TEX LIFE OUTER	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	of let let i	N/A
5.4.4.6.5	Mandrel test	Mer Au Au	N/A
5.4.4.7	Solid insulation in wound components	- Tet Jet Jel	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	THE THE THE	N/A
TEX ZEX	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	mi mi mi v	N/A
5.4.5	Antenna terminal insulation	LIE MALL WALL WA	N/A
5.4.5.1	General	a at at a	+ N/A
5.4.5.2	Voltage surge test	WALL WALL WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	4 4 3	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
an.	n n the state of t	EL MALLE MALL MALL	me m	
	Electric strength test		N/A	
5.4.6	Insulation of internal wire as part of supplementary safeguard	MULTE MULT MULL M	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WALTER WALT	N/A	
5.4.8	Humidity conditioning	at let let itel	N/A	
- 16x	Relative humidity (%), temperature (°C), duration (h)	Mary And And		
5.4.9	Electric strength test	Intie Milit White	N/A	
5.4.9.1	Test procedure for type test of solid insulation	a at at	N/A	
5.4.9.2	Test procedure for routine test	WILL WILL MUT MUT	N/A	
5.4.10	Safeguards against transient voltages from external circuits	LIES WIFE MILIES WHITE	N/A	
5.4.10.1	Parts and circuits separated from external circuits	the state of	N/A	
5.4.10.2	Test methods	ET WITE WALL WALL	N/A	
5.4.10.2.1	General	at at all	N/A	
5.4.10.2.2	Impulse test	White Mure and an	N/A	
5.4.10.2.3	Steady-state test	A CAN S	N/A	
5.4.10.3	Verification for insulation breakdown for impulse test	a lar an	N/A	
5.4.11	Separation between external circuits and earth	TE WITE WILL WILL	N/A	
5.4.11.1	Exceptions to separation between external circuits and earth	t lifet slifet milet	N/A	
5.4.11.2	Requirements	7/1 7/1	N/A	
Mr. W.	SPDs bridge separation between external circuit and earth	MULTER WALTER WALTER WA	N/A	
Life Mali	Rated operating voltage U <sub>op</sub> (V)	TEX LIEX NUTER WITH	_	
* *	Nominal voltage U <sub>peak</sub> (V)	L. M. M. M.	_	
MALTE	Max increase due to variation ΔU <sub>sp</sub>	HE SLIER NLIER WALLE		
, it	Max increase due to ageing ΔU <sub>sa</sub>	711 21 X	_	
5.4.11.3	Test method and compliance	CUTER MUTER MUTE AN	N/A	
5.4.12	Insulating liquid	and the set	N/A	
5.4.12.1	General requirements	WILL MULL MULL AND	N/A	
5.4.12.2	Electric strength of an insulating liquid	a de de de	N/A	
5.4.12.3	Compatibility of an insulating liquid	LIE MALL WALL WILL	N/A	
5.4.12.4	Container for insulating liquid	at at at at	N/A	
5.5	Components as safeguards	MALL MALL MALL	N/A	
5.5.1	General	No such components as safeguards.	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
F F O	Conscitors and DC units	the appropriate of the	NI/A	
5.5.2	Capacitors and RC units	A 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A	
5.5.2.1	General requirement	MULL MULL MULL	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEX TEX NITER OF	N/A	
5.5.3	Transformers	V. 10, 20, 2	N/A	
5.5.4	Optocouplers	TEK STEK WITER WALL	N/A	
5.5.5	Relays	711 211 2	N/A	
5.5.6	Resistors	A STER WITER WITER	N/A	
5.5.7	SPDs	10, 1 st	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	antific antific antific	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIFER WALTER WALTER WA	N/A	
A CLIEN	RCD rated residual operating current (mA)	at the the the		
5.6	Protective conductor	Auto Auto Auto	N/A	
5.6.2	Requirement for protective conductors	t get get steet	N/A	
5.6.2.1	General requirements	Class III equipment	N/A	
5.6.2.2	Colour of insulation	LEE NITER	N/A	
5.6.3	Requirement for protective earthing conductors	2 2 2 2 2 2 2 2 2 2 2	N/A	
LE MULLE	Protective earthing conductor size (mm²)	The Life of the Miles	<u> </u>	
t NLTEX	Protective earthing conductor serving as a reinforced safeguard	* Tet Tet Tel	N/A	
TEK.	Protective earthing conductor serving as a double safeguard	Mus. Any Ang	N/A	
5.6.4	Requirements for protective bonding conductors	MULL MULL MULL	N/A	
5.6.4.1	Protective bonding conductors	at at let	N/A	
20	Protective bonding conductor size (mm²)	LEE MEET ME ME	_	
5.6.4.2	Protective current rating (A)	et let let let li	N/A	
5.6.5	Terminals for protective conductors	Mr. Mr. Mr.	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	- WALTER WALTER	N/A	
INLIEL WIN	Terminal size for connecting protective bonding conductors (mm)	NATER WILL MATER	N/A	
5.6.5.2	Corrosion	the state of	N/A	
5.6.6	Resistance of the protective bonding system	LIE WILL WALL AND	N/A	
5.6.6.1	Requirements	1 1 1 1 10	N/A	
5.6.6.2	Test Method	SINLIE MALTE MALL	N/A	
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	L at	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.6.7	Reliable connection of a protective earthing conductor	the text text and	N/A	
5.6.8	Functional earthing	me me me	N/A	
LIE WAL	Conductor size (mm²)	THE THE WIFE WITE	N/A	
AL /	Class II with functional earthing marking	We all the to	N/A	
WILL	Appliance inlet cl &cr (mm)	THE LIER SLIER WATER OF	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	it still nite intitioning	N/A	
5.7.2.1	Measurement of touch current	An 2.	N/A	
5.7.2.2	Measurement of voltage	still with white with	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	TEX SLIEK SLIEK MILIEK	N/A	
5.7.4	Unearthed accessible parts	2 14 14	N/A	
5.7.5	Earthed accessible conductive parts	EX SITEX WITE WITE W	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	Tet itet sitet mi	N/A	
	Protective conductor current (mA)	Mr. An. A.	N/A	
Will WA	Instructional Safeguard	AL RITER MITE	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A	
5.7.7.1	Touch current from coaxial cables	ry Mur. Any Any	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	A MILIER WHITER WHITER WA	N/A	
5.7.8	Summation of touch currents from external circuits	NUTER MUTER WHITE	N/A	
LIFEY MILI	a) Equipment connected to earthed external circuits, current (mA)	TER LIER WITH WITH	N/A	
EF WILE	b) Equipment connected to unearthed external circuits, current (mA)	at the let list	N/A	
5.8	Backfeed safeguard in battery backed up suppl	lies which were	N/A	
NUTER	Mains terminal ES	No battery used	N/A	
20, 1	Air gap (mm)	The Mr. Mr. And An	N/A	

6	ELECTRICALLY- CAUSED FIRE  Classification of PS and PIS		P
6.2			
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P TEK WALTEK VINLTEK



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Clause	EN IEC 62368-		Vandiat
Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	N/A
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	TEK 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	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P EK VINITI
in in	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condi	tions	P
6.4.1	Safeguard method	Method by control of fire spread applied	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	MALL WALL WALL ON	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	White white white white	N/A
6.4.3.1	Supplementary safeguards	AN THE RITE	N/A
6.4.3.2	Single Fault Conditions	2 34 24	N/A
TER WALTE	Special conditions for temperature limited by fuse	THE THE STATE STATE	N/A
6.4.4	Control of fire spread in PS1 circuits	24. 24. 24.	Р
6.4.5	Control of fire spread in PS2 circuits	of the still mile on	N/A
6.4.5.2	Supplementary safeguards	711 121	N/A
6.4.6	Control of fire spread in PS3 circuits	LITER OUTER WALTER WALTE	N/A
6.4.7	Separation of combustible materials from a PIS	In the state of	N/A
6.4.7.2	Separation by distance	ALTER MITE MALTE WALL	N/A
6.4.7.3	Separation by a fire barrier	L A A	N/A
6.4.8	Fire enclosures and fire barriers	See 6.4.5	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	A State	N/A
6.4.8.2.1	Requirements for a fire barrier	White White June June	N/A
6.4.8.2.2	Requirements for a fire enclosure	at all set set	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	mer mer me me	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	LIER MALTE MALLE MALL	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	te mile mer mer me	N/A
Alt .	Openings dimensions (mm)		N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
6.4.8.3.4	Bottom openings and properties	The way our on	N/A	
دار ارزی درا	Openings dimensions (mm)	A TEX TEX STEX ONLY	N/A	
streit mi	Flammability tests for the bottom of a fire enclosure	THE THE THE STILL	N/A	
	Instructional Safeguard	in with the sure	N/A	
6.4.8.3.5	Side openings and properties	CER STEP STEE STIFE S	N/A	
	Openings dimensions (mm)		N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	White white white on	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	Whitek Whitek Whitek White	N/A	
6.4.9	Flammability of insulating liquid	· of let let let	N/A	
6.5	Internal and external wiring	MULL MULL MULL MULL	Р	
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	TE PL	
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	N/A	
6.5.3	Internal wiring size (mm2) for socket-outlets	. No such wire used	N/A	
6.6	Safeguards against fire due to the connection to a	additional equipment	N/A	
L et	the text it will and and a		St 5	
7	INJURY CAUSED BY HAZARDOUS SUBSTANC		N/A	
7.2	Reduction of exposure to hazardous substance	ces	N/A	
7.3	Ozone exposure	e antite white anti- whi	N/A	
7.4	Use of personal safeguards or personal protect		N/A	
20	Personal safeguards and instructions	" L. Th. Th. Th.	_	
7.5	Use of instructional safeguards and instructio		N/A	
10.	Instructional safeguard (ISO 7010)	in mr. mr. m. m.		
7.6	Batteries and their protection circuits	et let let let let	N/A	
8	MECHANICALLY-CAUSED INJURY	. 'U. M. M. A.	Р	
8.2	Mechanical energy source classifications	alter with after whi	All P	
8.3	Safeguards against mechanical energy sources		P	
8.4	Safeguards against parts with sharp edges and corners		Р	
8.4.1	Safeguards	1 A St St	P.S	
24 200	Instructional Safeguard	: MS1: Edges and corners of enclosure	Р	
10	and the second second	GIGIOSUIG		



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Clausa	Destringment Task	Descrit Demonts	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	Mr. Mr. Mr. Mr.	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
EK WITER	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
- JEK	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard	antil mit me me	N/A
8.5.4	Special categories of equipment containing moving parts	SLIER WILER MILIER MILIER	N/A
8.5.4.1	General	in in the life	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	LIET WALL WALL WALL	N/A
8.5.4.2.1	Protection of persons in the work cell	a at at at	N/A
8.5.4.2.2	Access protection override	while mer mer m	N/A
8.5.4.2.2.1	Override system	et let let is	N/A
8.5.4.2.2.2	Visual indicator	MULL MULL MAN	N/A
8.5.4.2.3	Emergency stop system	it of the sites	N/A
SEK SIEK	Maximum stopping distance from the point of activation (m)	The left	N/A
t set	Space between end point and nearest fixed mechanical part (mm):	it was and a	N/A
8.5.4.2.4	Endurance requirements	A WILL MULL MULL MU	N/A
MUTEK ANI	Mechanical system subjected to 100 000 cycles of operation	SLIER WIFE WITER WHITE	N/A
A L	- Mechanical function check and visual inspection	the the state of	N/A
in an	- Cable assembly:	NITER WITE WALL WHILE	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	et allet milet milet	N/A
8.5.4.3.1	Equipment safeguards	20, 20,	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	CHIER WITE WAITE WALTE WAL	N/A
8.5.4.3.3	Disconnection from the supply	The state of	N/A
8.5.4.3.4	Cut type and test force (N):	WITE WILL MILL WILL	N/A
8.5.4.3.5	Compliance	a state of	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
ALTER-	Explosion test	at all all all a	N/A
8.5.5.3	Glass particles dimensions (mm)	Mr. Mr. Mr. M.	N/A
8.6	Stability of equipment	et et set set	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Olause	Trequirement Pest	result remain	Verdict
8.6.1	General	MS1: Mass of the unit	N/A
ane a	Instructional safeguard:	CLIFE WILL AND AND	N/A
8.6.2	Static stability	a st st st	N/A
8.6.2.2	Static stability test	Write Murit Mury Mury	N/A
8.6.2.3	Downward force test	A SEX SEX SEX	N/A
8.6.3	Relocation stability	it with my my	N/A
OLITER	Wheels diameter (mm):	t tet tet tiet .	<u> </u>
200	Tilt test	Any My Any A	N/A
8.6.4	Glass slide test	TEX STEX STEE ON	N/A
8.6.5	Horizontal force test	Mr. Mr. M.	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	- m - + - +	N/A
8.7.2	Test methods	EL MITER MALTE MALLE	N/A
All the	Test 1, additional downwards force (N):		N/A
	Test 2, number of attachment points and test force (N)	White white white was	N/A
VILL AUT	Test 3 Nominal diameter (mm) and applied torque (Nm)	THE WALL	N/A
8.8	Handles strength	THE THE STATE OF	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	ex tex street within	N/A
	Number of handles:	24 24 24 24 2	<u></u>
الك يريارا	Force applied (N)	LIFE OLIFE WALTER WATER	in and
8.9	Wheels or casters attachment requirements	July July Jan	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	a a state	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	- Little Miller Miller AND	N/A
8.10.3	Cart, stand or carrier loading test	20, 20, 2	N/A
iver in	Loading force applied (N)	CLIEF WILL WALL WALL	N/A
8.10.4	Cart, stand or carrier impact test	n t et et	N/A
8.10.5	Mechanical stability	LIE WALTE WALL WALL	N/A
the Tilly	Force applied (N)	e at at at	Jek Ji
8.10.6	Thermoplastic temperature stability	MULL MULL MULL	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
Me	The the table of	THE STIP MILL WALL.	Wer all	
8.11.1	General	No such parts	N/A	
8.11.2	Requirements for slide rails	CLIER WITE WILL W	N/A	
at .	Instructional Safeguard	We with the second	N/A	
8.11.3	Mechanical strength test	RETER WALL WALL WALL	N/A	
8.11.3.1	Downward force test, force (N) applied:	a state of	N/A	
8.11.3.2	Lateral push force test	The Will Auth Auth	N/A	
8.11.3.3	Integrity of slide rail end stops	L St St St	N/A	
8.11.4	Compliance	White Mrs. Mrs. 4	N/A	
8.12	Telescoping or rod antennas	fit fet stet	N/A	
th. 2,	Button/ball diameter (mm):	No such parts	_	

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications  Touch temperature limits		JE PUTE
9.3			Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	Р
9.4	Safeguards against thermal energy sources	Mur Mur	л <sub>и.</sub> Р <sub>ли.</sub>
9.5	Requirements for safeguards		JEFP J
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.	P EK WALTER
9.5.2	Instructional safeguard	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	TEX SLIER MITE MITE	N/A
9.6.1	General (1) General		N/A
9.6.2	Specification of the foreign objects	IEK RIJER WITE WALLE WE	N/A
9.6.3	Test method and compliance:	20, 2	N/A

10	RADIATION	N/A
10.2	Radiation energy source classification	
10.2.1	General classification	N/A
rs AVE	Lasers:	_
et let	Lamps and lamp systems	_
an	Image projectors:	n -
CIEN	X-Ray:	- SE -



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Clause	Requirement – Test	Result – Remark	Verdict
Jiddoo	The state of the s	TOOK TOMAK	Volunt
, Et	Personal music player	The The The	A -
10.3	Safeguards against laser radiation	NUTER MALTE MALTE	N/A
LIFEK WILL	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	N/A
10.4.1	General requirements	in my my	N/A
MALTER	Instructional safeguard provided for accessible radiation level needs to exceed	ANTIER MILIER MILIER	N/A
Till C	Risk group marking and location:	at at 1st	N/A
n a	Information for safe operation and installation	MUTTE MET ME M	N/A
10.4.2	Requirements for enclosures	at let let i	N/A
7, 1	UV radiation exposure:	m. m. m.	N/A
10.4.3	Instructional safeguard:	et let tet te	N/A
10.5	Safeguards against X-radiation	Mr. Mr. M	N/A
10.5.1	Requirements	No X-radiation	N/A
× -	Instructional safeguard for skilled persons	We An In In	· _
10.5.3	Maximum radiation (pA/kg)	THE MILE W	71,
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	L At At	N/A
Mr.	Acoustic output L <sub>Aeq,T</sub> , dB(A):	E WILL WALL MALL	N/A
Alt .	Unweighted RMS output voltage (mV):	a state	N/A
are a	Digital output signal (dBFS)	MALTE MALTE WALL V	N/A
10.6.3	Requirements for dose-based systems	at the little	N/A
10.6.3.1	General requirements	WELL MUES AND MY	N/A
10.6.3.2	Dose-based warning and automatic decrease	at at the ste	N/A
10.6.3.3	Exposure-based warning and requirements	and any	N/A
WITE.	30 s integrated exposure level (MEL30):	- TEK JEK JEK	N/A
20	Warning for MEL ≥ 100 dB(A)	me me m	N/A
10.6.4	Measurement methods	TEX TEX STEE	N/A
10.6.5	Protection of persons	The Me in a	N/A
The WALL	Instructional safeguards	TEX STER OUTER MAN	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	the set set set	N/A
10.6.6.1	Corded listening devices with analogue input	Mer. Mer. M.	N/A
	Listening device input voltage (mV)	LET LET LIET	N/A



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n. m.	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
Me	We the territory	the cutt with a	hr an		
10.6.6.2	Corded listening devices with digital input	70, 20,	N/A		
Mur. M	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	ALTER MITE WALLE WAS	N/A		
10.6.6.3	Cordless listening devices	70 x 24 2	N/A		
Vr. Aug	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	alter mite white white	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING ITTION TESTS	P
B.1	General	et set set stet wi	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	TEX LIEK SLIEF MITE	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
it Lest	Audio Amplifiers and equipment with audio amplifiers	the text	N/A
B.2.3	Supply voltage and tolerances	ET WILL MULT MULT WILL	N/A
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	WILL MULL MULL MULL	An P
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
SER OUT	Instructional safeguard	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	No such output terminals	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)	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	Jr. P.
B.4	Simulated single fault conditions	THE THE STEEL STEEL OF	P
B.4.1	General	Mr. Mr. Mr. Mr.	Р
B.4.2	Temperature controlling device	No such parts	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	N/A
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P



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Clause	Requirement – Test	Result – Remark	Verdict
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	P
B.4.9	Battery charging and discharging under single fault conditions	No such battery	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV ra	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	Et LIER SLIER WITHER	N/A
C.2	UV light conditioning test	Mr. M. M.	N/A
C.2.1	Test apparatus:	LIET WILL WITE WITE	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test	THE MALL	N/A
C.2.4	Xenon-arc light-exposure test	++	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	and the set	N/A
D.2	Antenna interface test generator	EL WELL MELL MET ME	N/A
D.3	Electronic pulse generator	at at at a	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	o signals	N/A
20.	Maximum non-clipped output power (W):	been mur mur mir	_
EL WILLE	Rated load impedance (Ω):	Et TEX TEX STEEL	_
£	Open-circuit output voltage (V)	Mur All All A	
- NILTE Z	Instructional safeguard	- LIEF VILLE WILLEY	<u> </u>
E.2	Audio amplifier normal operating conditions	M. M. D.	N/A
WELL ALL	Audio signal source type:	ALTER MITER MATERIALITY	_
et e	Audio output power (W):	an an	_
r. Mur.	Audio output voltage (V):	LIEF MILE WALLE WALL	
y Jet	Rated load impedance (Ω):	1 t et et	_
21/2	Requirements for temperature measurement	antic mult wat all	N/A
E.3	Audio amplifier abnormal operating conditions	1 2 24	N/A



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EN IEC 62368-1			Marie Marie Marie	
Clause	Requirement – Test	is the minimum	Result – Remark	Verdict

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P
F.1	General	The Mr. An Mr.	Р
Life. Wi	Language:	English	_
F.2	Letter symbols and graphical symbols	the the the the	P
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.	WALTEK WALTEK
F.3	Equipment markings	at let let liet	TE P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P V
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	nt P
F.3.3	Equipment rating markings	See below for details.	Р
F.3.3.1	Equipment with direct connection to mains	TEN TE NITE OUTE A	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р
F.3.3.4	Rated voltage:	See copy of marking plate.	P+
F.3.3.5	Rated frequency	alter mile wall wall	N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	THE WALL WALL WALL ON	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	- NIEK WIEK WILLER	N/A
F.3.5.2	Switch position identification marking:	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
F.3.5.3	Replacement fuse identification and rating markings	writer write write write.	N/A
The WALL	Instructional safeguards for neutral fuse:	TEX SITER RITER MILES	N/A
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	70	N/A



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01	EN IEC 62368-	2 40 20 20 20 20 20 20 20 20 20 20 20 20 20	\ /1: -4
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	my my my	N/A
F.3.6.1.1	Protective earthing conductor terminal	TEX LIER NITER MITE	N/A
F.3.6.1.2	Protective bonding conductor terminals	W. M. M. M.	N/A
F.3.6.2	Equipment class marking:	TEX SITEX WITER WITER W	N/A
F.3.6.3	Functional earthing terminal marking:	24 1	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	71 <u>0</u>
F.3.8	External power supply output marking:	No such parts.	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	
F.4	Instructions	White Aut. Aug. My	Р
STEEL ST	a) Information prior to installation and initial use	See user manual	Р
an an	b) Equipment for use in locations where children not likely to be present	men and any any	N/A
in the	c) Instructions for installation and interconnection	HILL WHILL MULL MULL.	N/A
ek waliek	d) Equipment intended for use only in restricted access area	Et STER BUTER METER	N/A
- Lit	e) Equipment intended to be fastened in place	70, 2, 7	N/A
21/25. 21	f) Instructions for audio equipment terminals	" " THE WITE WALL WALL	N/A
LEF .	g) Protective earthing used as a safeguard	1 1 11 11	N/A
ing an	h) Protective conductor current exceeding ES2 limits	MILLE MULL MULL MULL	N/A
MALI	i) Graphic symbols used on equipment	TEX NIET MITE WAITE	N/A
y Witer	j) Permanently connected equipment not provided with all-pole mains switch	at the state state of	N/A
, lit	k) Replaceable components or modules providing safeguard function	My My My My	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- Color	IV Equipment containing insulating liquid	The rest wines when	NI/A	
NEW 1	Equipment containing insulating liquid      The definition is attractions for containing and are actions and are actions and are actions.		N/A	
<u> </u>	m) Installation instructions for outdoor equipment	MULL MULL MULL	N/A	
F.5	Instructional safeguards		N/A	
G	COMPONENTS	7	P	
G.1	Switches	The state of the second	N/A	
G.1.1	General	No switch used	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	the set of	N/A	
G.1.3	Test method and compliance	me me m	N/A	
G.2	Relays	THE TEXT TEXT	N/A	
G.2.1	Requirements	me me me	N/A	
G.2.2	Overload test	TEN TEN TEN ON	N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	t it it is	N/A	
G.2.4	Test method and compliance	the write many with	N/A	
G.3	Protective devices	L of the text	N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
INITER WAS	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	White w	N/A	
IEK WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The Life Still Milit	N/A	
G.3.1.2	Test method and compliance	The The Table	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	TEL STEE STEE	N/A	
s.	b) Thermal links tested as part of the equipment	me me me	N/A	
G.3.2.2	Test method and compliance	TEN TEN NITE IN	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	t tek stek stek	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	Whi with the	N/A	
G.3.5.2	Single faults conditions:	WILL MUT, MUT, M	N/A	
G.4	Connectors	at at at a	N/A	
G.4.1	Spacings	No such component	N/A	
G.4.2	Mains connector configuration:	It let let let	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	mi mi mi	N/A	



	EN IEC 62368-	tie nei mei me	
Clause	Requirement – Test	Result – Remark	Verdict
- in		it with will me	411.
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test	ALTE WALL WALL WA	N/A
G.5.2.1	General test requirements	a start at	N/A
G.5.2.2	Heat run test	THE WALL MALL MALL	N/A
- LTEK	Test time (days per cycle):	e at all tell	
	Test temperature (°C):	White whi whi	- n
G.5.2.3	Wound components supplied from the mains	at let set	N/A
G.5.2.4	No insulation breakdown	They were the se	N/A
G.5.3	Transformers	let text itest as	N/A
G.5.3.1	Compliance method:	how my my my	N/A
in the	Position:	Et TEX TEX STE	N/A
- L	Method of protection	The The The	N/A
G.5.3.2	Insulation	CENT THE WITE	N/A
, t	Protection from displacement of windings:	"" " "" "" "" " " " " " " " " " " " "	
G.5.3.3	Transformer overload tests	LET SULLES	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures	TE NITE WILL WALL	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	ed intitle white white	N/A
G.5.3.4.1	General	1 1 1	N/A
are ar	FIW wire nominal diameter:	WILLER WALLE WALL V	10° -
G.5.3.4.2	Transformers with basic insulation only	the state of	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	With Mary Aut and	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	THE WALTE WALTE WALL	N/A
G.5.3.4.5	Thermal cycling test and compliance	LIE WITE WITE	N/A
G.5.3.4.6	Partial discharge test	111 21 2	N/A
G.5.3.4.7	Routine test	LIEF SLIEF MITE OF	N/A



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Clause	EN IEC 62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
	Test duration (days):	THE THE WAY	
G.5.4.5	Running overload test for DC motors	LIER SLIER SPLIER	N/A
G.5.4.5.2	Tested in the unit	2/12 2/11 2/2	N/A
G.5.4.5.3	Alternative method	ALTER INLIER WALLE WA	N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit	THE WALL WALL WALL	N/A
- TEK	Maximum Temperature	e at at at	N/A
G.5.4.6.3	Alternative method	White Will AND	N/A
G.5.4.7	Motors with capacitors	at at let	N/A
G.5.4.8	Three-phase motors	Were Mer Mer A	N/A
G.5.4.9	Series motors	LEX LEX LIET N	N/A
7 7	Operating voltage	in me me in	
G.6	Wire Insulation	elt the the still	N/A
G.6.1	General Andrews Andrew	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	TEN STEP MITE	N/A
G.7	Mains supply cords	111 211 211	N/A
G.7.1	General requirements	No such component	N/A
et et	Type:	- 1	<i>o</i> t –
G.7.2	Cross sectional area (mm² or AWG):	LIE MITE WALTER WALL	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	t the street mitel	N/A
G.7.3.2	Cord strain relief	111 101	N/A
G.7.3.2.1	Requirements	LIER MITE MITE	N/A
. St . K	Strain relief test force (N)	24	N/A
G.7.3.2.2	Strain relief mechanism failure	ALTER INLIER WALTE WA	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1 1 1 1	N/A
G.7.3.2.4	Strain relief and cord anchorage material	TER WALL MALL MALL	N/A
G.7.4	Cord Entry	at the little	N/A
G.7.5	Non-detachable cord bend protection	WALL MALL WALL	N/A
G.7.5.1	Requirements	at at at	N/A
G.7.5.2	Test method and compliance	Will Mer Mur M	N/A
TEK WALTE	Overall diameter or minor overall dimension, D (mm)	LIEK WITEK WITEK WI	, et
y JEK	Radius of curvature after test (mm)	1 1 1 1 1	
G.7.6	Supply wiring space	WALL MALL MALL	N/A
G.7.6.1	General requirements	1 4 2+	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6.2	Stranded wire	the right wife the way	NI/A	
		1 10 10 10 11 11 11 11 11 11 11 11 11 11	N/A	
G.7.6.2.1	Requirements	They are the the	N/A	
G.7.6.2.2	Test with 8 mm strand	THE THE THE THE	N/A	
G.8	Varistors	With the Mr. Mr.	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	in the many	N/A	
G.8.2.1	General	t 19th 19th Night No	N/A	
G.8.2.2	Varistor overload test	Mer Mr. Mr. Mr.	N/A	
G.8.2.3	Temporary overvoltage test	Let the the the	N/A	
G.9	Integrated circuit (IC) current limiters	The Mr. M. D.	N/A	
G.9.1	Requirements	No such component	N/A	
الد ا	IC limiter output current (max. 5A)	1 My My My	_	
NOTE OF	Manufacturers' defined drift:	Et TEX STER WITH A	_	
G.9.2	Test Program	Mr. M. M.	N/A	
G.9.3	Compliance	LIEK NIFE WITE WIL	N/A	
G.10	Resistors		N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	- 1 L	N/A	
G.10.3	Resistor test	LIE RUTE WALL WALL V	N/A	
G.10.4	Voltage surge test	L A A	N/A	
G.10.5	Impulse test	in the write military	N/A	
G.10.6	Overload test	L of of the	N/A	
G.11	Capacitors and RC units	WILL AUT AUT AUT	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	ALTE WALL WALL WALL	N/A	
G.11.3	Rules for selecting capacitors	at all all the	N/A	
G.12	Optocouplers	in anti anti anti a	N/A	
WALTER WI	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
det d	Type test voltage V <sub>ini,a</sub> :	at at all all	_	
11- 10/12	Routine test voltage, V <sub>ini, b</sub> :	White Mure must must make	_	
G.13	Printed boards	at let let let	U P	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	P	
G.13.2	Uncoated printed boards	711 Th. 12	N/A	
G.13.3	Coated printed boards	TET TET STE OUT	N/A	



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01	EN IEC 62368-	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	N
Clause	Requirement – Test	Result – Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface	THE THE LIER	N/A
G.13.5	Insulation between conductors on different surfaces	Mar And And	N/A
. 40	Distance through insulation	Will MUTE MUTE MA	N/A
EK NITER	Number of insulation layers (pcs)	at alt alt of	<i></i>
G.13.6	Tests on coated printed boards	The Augustin	N/A
G.13.6.1	Sample preparation and preliminary inspection	t get get get	N/A
G.13.6.2	Test method and compliance	The Mr. Mr.	N/A
G.14	Coating on components terminals	TEX TEX STEE	N/A
G.14.1	Requirements	m m m	N/A
G.15	Pressurized liquid filled components	TEX SITER NITER MY	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	EK NITER WITE WITE	N/A
G.15.2.1	Hydrostatic pressure test	201 2	N/A
G.15.2.2	Creep resistance test	CLIEB WILL WALLE	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	Marie W	N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test	The Will Mill Mill	N/A
G.15.3	Compliance	4 1/4 1/6 <sup>1</sup> 4	N/A
G.16	IC including capacitor discharge function (ICX)	MULL MULL MULL	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
20, 20	ICX with associated circuitry tested in equipment	and any any	N/A
LIE MIT	ICX tested separately	TEK TEK LITEK OL	N/A
G.16.2	Tests	ur mr m. m.	N/A
MALIE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	iet millet miller mill	- m
WALTER	Mains voltage that impulses to be superimposed on	THE MILET WHILEK	whit -
NITEK WY	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	LIET SLIET WIFEL W	ALTEK —
G.16.3	Capacitor discharge test	m m	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General 11 11 11 11 11 11 11		N/A
H.2	Method A	IEF MITE MALTE MALTE	N/A
H.3	Method B		N/A



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- 22,	EN IEC 62368-	2 70 70 70	0, 4.
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 test step	_
H.3.1.2	Voltage (V)		i —
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STEEL	
H.3.1.4	Single fault current (mA):	y Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t tet with with our	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the test states of the	N/A
H.3.2.2	Tripping device	mer mer an	N/A
H.3.2.3	Monitoring voltage (V):	tel tel tel stell stille	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	OUT INTERLEAVED	N/A
J.1	General	ie with mur mur a	N/A
CLIFE A	Winding wire insulation:	the test tills at	· —
da a	Solid round winding wire, diameter (mm):	The Me Me Me	N/A
NLTER WAL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	The State	LIFET TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		
TEK S	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	at at telt the	N/A
K.4	Interlock safeguard override	NUTTE WALL WALL WAY	N/A
K.5	Fail-safe	at let let liet	N/A
K.5.1	Under single fault condition	Mr. Mr. M. A.	N/A
K.6	Mechanically operated safety interlocks	A THE THE THE W	N/A
K.6.1	Endurance requirement	The Mr. M. A.	N/A
K.6.2	Test method and compliance	TER LIER MITTER MITTE	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET WHITEK WHITEK WHITE	N/A
WALTE.	In circuit connected to mains, separation distance for contact gaps (mm):	Et WALTER WALTER W	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	ALTER SLIFER MILIER MILI	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
NITER	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A	
K.7.2	Overload test, Current (A):	Mr. Mr. Mr. And	N/A	
K.7.3	Endurance test	THE THE LIEF WITE	N/A	
K.7.4	Electric strength test	me me me	N/A	
L	DISCONNECT DEVICES		N/A	
L.1 ,	General requirements	7/1 /2	N/A	
L.2	Permanently connected equipment	t alter with while whi	N/A	
L.3	Parts that remain energized	The state of	N/A	
L.4	Single-phase equipment	CLIEB WILL WALL WALL	N/A	
L.5	Three-phase equipment	and the second	N/A	
L.6	Switches as disconnect devices	LIFE WALL WALL WALL	N/A	
L.7	Plugs as disconnect devices	a at at the	N/A	
L.8	Multiple power sources	and the men we we	N/A	
JEE	Instructional safeguard	at the the t	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements	It I THE SITE	N/A	
M.2	Safety of batteries and their cells	- 1 m m	N/A	
M.2.1	Batteries and their cells comply with relevant IEC standards	No battery used	N/A	
M.3	Protection circuits for batteries provided within the equipment	* SLIFE MLIER WALTER WAY	N/A	
M.3.1	Requirements	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
M.3.2	Test method	CHIEF WALTE WALL WALL	N/A	
TEX S	Overcharging of a rechargeable battery	L A A A	N/A	
11/2	Excessive discharging	RETERNATION WALL WALL	N/A	
ek walte	Unintentional charging of a non-rechargeable battery	TEX TOTAL MITES MULTER MI	N/A	
JEK.	Reverse charging of a rechargeable battery	70 T A	N/A	
M.3.3	Compliance	CLIER WILL MULL MULL	N/A	
M.4	Additional safeguards for equipment containing	g a portable secondary	N/A	

L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4 🐠	Single-phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A
JEK	Instructional safeguard	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	N/A
M.2	Safety of batteries and their cells	N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:	N/A
M.3	Protection circuits for batteries provided within the equipment	N/A
M.3.1	Requirements	N/A
M.3.2	Test method	N/A
18th J	Overcharging of a rechargeable battery	N/A
700	Excessive discharging	N/A
ex walter	Unintentional charging of a non-rechargeable battery	N/A
at the	Reverse charging of a rechargeable battery	N/A
M.3.3	Compliance	N/A
M.4.	Additional safeguards for equipment containing a portable secondary lithium battery	N/A
M.4.1	General	N/A
M.4.2	Charging safeguards	N/A
M.4.2.1	Requirements	N/A
M.4.2.2	Compliance:	N/A
M.4.3	Fire enclosure:	N/A



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01	EN IEC 62368-	2 7/1 7/1 7/1	11/ 11/4
Clause	Requirement – Test	Result – Remark	Verdict
M.4.4	Drop test of equipment containing a secondary lithium battery	Tex Tex Tex 27	N/A
M.4.4.2	Preparation and procedure for the drop test	my my my	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	NITER WHITER WHITER WHITE	N/A
M.4.4.4	Check of the charge/discharge function	et ret ret with	N/A
M.4.4.5	Charge / discharge cycle test	in the the the	N/A
M.4.4.6	Compliance	t tet tet atet atet mi	N/A
M.5	Risk of burn due to short-circuit during carrying	g with which will be	N/A
M.5.1	Requirement	TEX LIEX NITES INTE	N/A
M.5.2	Test method and compliance	me m m	N/A
M.6	Safeguards against short-circuits	TER STEEL STIFF SPUTE	N/A
M.6.1	External and internal faults	a m m	N/A
M.6.2	Compliance	EX SLIER WILL MILL ON	N/A
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	White White White whi	N/A
NITE WAS	Calculated hydrogen generation rate:	THE MITTER MITTER	N/A
M.7.2	Test method and compliance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
MULL	Minimum air flow rate, Q (m³/h):	TE OLIV WITH WALTE	N/A
M.7.3	Ventilation tests	The state of	N/A
M.7.3.1	General	A WILL WILL MAIL MA	N/A
M.7.3.2	Ventilation test – alternative 1		N/A
mr. m	Hydrogen gas concentration (%)	CLIEB WALTE WALL WAL	N/A
M.7.3.3	Ventilation test – alternative 2	at the set set	N/A
111	Obtained hydrogen generation rate	rite unit unit unit	N/A
M.7.3.4	Ventilation test – alternative 3	a st st st	N/A
7/12	Hydrogen gas concentration (%)	in we we we	N/A
M.7.4	Marking	- let let let let	N/A
M.8	Protection against internal ignition from externation with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	WILL WILL MUT MUT	N/A
M.8.2	Test method	at the set set	N/A
M.8.2.1	General	LIE WALL MALL MUE.	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):	at at all the	TEN TO
M.8.2.3	Correction factors:	MULL MULL MULL MILL	7
M.8.2.4	Calculation of distance d (mm):	A A A A A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.9	Drayonting clostes but a skillere	it with winth out	N/A	
	Preventing electrolyte spillage	I st st st.	· · · · · · · · · · · · · · · · · · ·	
M.9.1	Protection from electrolyte spillage	MUTLE MUTE MUTE AND	N/A	
M.9.2	Tray for preventing electrolyte spillage		N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	Will Mult Must My	N/A	
in White	Instructional safeguard	TEK STEK WITER WALTER	N/A	
N	ELECTROCHEMICAL POTENTIALS	. 11, 2, 2	N/A	
	Material(s) used:	et wifek wifek while v	ing him	
0 1	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A	
ing in	Value of X (mm)	WILL MALLE WALL AND	nu_	
Pat d	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS	y AP	
P.1	General	See below	P	
P.2	Safeguards against entry or consequences of entry of a foreign object		P.	
P.2.1	General	MULL MILL MILL	70 P	
P.2.2	Safeguards against entry of a foreign object	at at all	J P	
4, 4	Location and Dimensions (mm)	No opening.		
P.2.3	Safeguards against the consequences of entry of a foreign object	Et MALTER WAL	N/A	
P.2.3.1	Safeguard requirements	THE THE	N/A	
F LEX	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	it will will will	N/A	
MUL	Transportable equipment with metalized plastic parts	White Murie Muli	N/A	
P.2.3.2	Consequence of entry test	TEL STEE STEE STEE	N/A	
P.3	Safeguards against spillage of internal liquids		N/A	
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	1	N/A	
P.3.3	Spillage safeguards	THE OLITER WHITE WALLE	N/A	
P.3.4	Compliance	3, 3,	N/A	

MOA	Dustastian from alastralista anillana		NI/A
M.9.1	Protection from electrolyte spillage	were interested in	N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse	were mure mure mure	N/A
MULL	Instructional safeguard:	THE LITER MITTER MALIE W	N/A
N	ELECTROCHEMICAL POTENTIALS	111 11 1 x	N/A
	Material(s) used:	A STIER WITE WITE MY	Mer
0 1	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
inc in	Value of X (mm)	WITE WALL WALL WALL	me.
Pat de	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS A	Р
P.1	General	See below	P
P.2	Safeguards against entry or consequences of	entry of a foreign object	JE PU
P.2.1	General	antit and my	Р
P.2.2	Safeguards against entry of a foreign object	the let the si	Р
4, 4,	Location and Dimensions (mm)	No opening.	7
P.2.3	Safeguards against the consequences of entry of a foreign object	JUNITER WALTER	N/A
P.2.3.1	Safeguard requirements	The state of the s	N/A
F "EF	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	the man and a	N/A
Mr.	Transportable equipment with metalized plastic parts	MULTER WALLE WALL WAS	N/A
P.2.3.2	Consequence of entry test	LIER OLIER WILL MILE	N/A
P.3	Safeguards against spillage of internal liquids	All An A A	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
P.3.3	Spillage safeguards	THE MITE WALL WALL AND	N/A
P.3.4	Compliance	a de de a	N/A
P.4	Metallized coatings and adhesives securing pa	rts neit when when	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	MUTTE MUTTE MUTE MUTE	N/A
TEX SITE	Conditioning, T <sub>C</sub> (°C):	at the fit the	ALTER-ON
14	Duration (weeks)	real mer mer and	
Q J	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	Must me me m	N/A
Q.1.1	Requirements	LET LET LET LET	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
	a) Inherently limited output	W. W. W. W.	N/A
الم التالمال	b) Impedance limited output	CLIER WILL WHILE AND	N/A
all .	c) Regulating network limited output	The text of the text	N/A
ir. This	d) Overcurrent protective device limited output	ALTER WALTER WALL WALL	N/A
et je	e) IC current limiter complying with G.9	the state of the s	N/A
Q.1.2	Test method and compliance:	TER WILL MULT MULT A	N/A
	Current rating of overcurrent protective device (A)	t street miles writes and	N/A
Q.2	Test for external circuits – paired conductor cable	TEX TEX STIES STEE	N/A
	Maximum output current (A):	me me me	N/A
LIE WILL	Current limiting method	THE LIFE WITH MITH	1111 - 11
R	LIMITED SHORT CIRCUIT TEST	Le An An An	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	70 70 70	N/A
Mic. 1	Overcurrent protective device for test	CHIEF WITH WALL WALL	211/2
R.3	Test method	The sale	N/A
10 11	Cord/cable used for test	The sure of the su	apr
R.4	Compliance	The life	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	the west was any	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		
, Et	Samples, material	a at at a	- July
11/2 21	Wall thickness (mm)	WHITE WALL WALL WALL	1/11/2
all al	Conditioning (°C)	at at let let	-UF
et et	Test flame according to IEC 60695-11-5 with conditions as set out	Mary and and	N/A
m	- Material not consumed completely	THE WALL WALL WALL W	N/A
TEX	- Material extinguishes within 30s	at the set of	N/A
4112 1	- No burning of layer or wrapping tissue	white with me me	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
11. 22,	Samples, material	Murr Murr Aug My	4,
I EN INLIE	Wall thickness (mm)	TEX TEX STEX	CLIFE OF
	Conditioning (°C)	in the min	
S.3	Flammability test for the bottom of a fire enclose	sure the the	N/A
S.3.1	Mounting of samples	The his my	N/A
S.3.2	Test method and compliance	TEK TEK JEET SUI	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Miller	AND AND AND ASSESSED OF	Et NIE WILL WILL WILL W	il uni
,et	Mounting of samples:	70 70	et <del>et</del>
ant a	Wall thickness (mm)	THE WALTE WALTE WAL	'un'
S.4	Flammability classification of materials	The state of	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	NITE WILL WALL WALL WALL	N/A
٠,٠	Samples, material:	in my my	"
MITE	Wall thickness (mm)	t itel liter client of	ii ee mair
**	Conditioning (°C)	Mr. Mr. M.	1 -
1 CO ST	MECHANICAL STRENGTH TESTS	LIER SLIER WILL WILL	un P
T.1	General	M. M. C.	Р
T.2	Steady force test, 10 N:	LIEB WITE WALLE WALLE	N/A
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N	the intite water white w	N/A
T.5	Steady force test, 250 N:	at the little	N/A
T.6	Enclosure impact test	white whit with whi	N/A
	Fall test	at the site	N/A
20	Swing test	" " " " " " " " " " " " " " " " " " "	N/A
T.7	Drop test:	All The Link Miller	N/A
T.8	Stress relief test:	(See appended table T.8)	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	All An	N/A
11/10 1	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas		
er jur	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U whi	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General	y tiek atter atter on	N/A
CLIEF .	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS	in the the	N/A
V.1	Accessible parts of equipment	Et liet with with a	N/A
V.1.1	General	21, 21, 22	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
V.1.2	Surfaces and openings tested with jointed test probes		N/A	
V.1.3	Openings tested with straight unjointed test probes	me me me	N/A	
V.1.4	Plugs, jacks, connectors tested with blunt probe	TEX TEX LIER NUTER	N/A	
V.1.5	Slot openings tested with wedge probe	his mis in an	N/A	
V.1.6	Terminals tested with rigid test wire	CEY LIET WITE WITE .	N/A	
V.2	Accessible part criterion	. 'W, 'N, 'N, 'N, 'N, 'N, 'N, 'N, 'N, 'N, 'N	N/A	
X JOSEP	ALTERNATIVE METHOD FOR DETERMINING CLINSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A	
11 20	Clearance:	write mer, mer me	N/A	
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A	
Y.1	General	Indoor equipment	N/A	
Y.2	Resistance to UV radiation	et let let liet liet	N/A	
Y.3	Resistance to corrosion	Mr. Mr. M. M.	N/A	
Y.3	Resistance to corrosion	- TEX STEX STEX OUT	N/A	
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TEL TEL	N/A	
Y.3.2	Test apparatus	2 24 24	N/A	
Y.3.3	Water – saturated sulphur dioxide atmosphere	THE THE	N/A	
Y.3.4	Test procedure	in mur me my	N/A	
Y.3.5	Compliance	t tet tret with m	N/A	
Y.4	Gaskets	me m m	N/A	
Y.4.1	General	TEX STEE STEE MITTE	N/A	
Y.4.2	Gasket tests	742 - 241 -	N/A	
Y.4.3	Tensile strength and elongation tests	TEX STEE WITE WITE	N/A	
.+ .c. <del>*</del>	Alternative test methods:	L 1/2 2 2	N/A	
Y.4.4	Compression test	EL OLIER WILL MILL W	N/A	
Y.4.5	Oil resistance	71. 1. 1.	N/A	
Y.4.6	Securing means	CHIEF WHILE WHILE WAS	N/A	
Y.5	Protection of equipment within an outdoor enclo	osure	N/A	
Y.5.1	General	WILL MULL MULL MULL	N/A	
Y.5.2	Protection from moisture	a state of	N/A	
711,	Relevant tests of IEC 60529 or Y.5.3	The write mer, mer,	N/A	
Y.5.3	Water spray test	at at at at	N/A	
Y.5.4	Protection from plants and vermin	MULL MULL MULL MI	N/A	
Y.5.5	Protection from excessive dust	at at all a	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale.	THE THE CONTRACT OF THE CONTRA	The wife with white	we we	
Y.5.5.1	General	24, 25,	N/A	
Y.5.5.2	IP5X equipment	ALTER MITE MILIT	N/A	
Y.5.5.3	IP6X equipment	201 1	N/A	
Y.6	Mechanical strength of enclosures	RLIFE WILL WALL W	N/A	
Y.6.1	General		N/A	
Y.6.2	Impact test:	LIER WILL WALL WAL	N/A	

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The	All Silver All	EN IEC 62368-1	IET MITER MALICE WA	the mail mile
Clause	Requirement – Test	Will AUT AU	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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- AUG	CENELEC COMMON MODIFICATIONS (EN)	TER WITE WILL AND AND	Р
WALTER W	Clause numbers in the cells that are shaded light gr IEC 62368-1:2020+A11:2020. All other clause numbers in the paragraph below, refers to IEC 62368-7 Clauses, subclauses, notes, tables, figures and annumber those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P
EX WILLEY	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 WILLIAM THE WILL	P.W.
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure  Replace 3.3.19 of IEC 62368-1 with the following de-	efinitions:	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



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
n.	M W TEN TEN	The Will Mary Mary	The Mar	
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 Pa <sup>2</sup> s.  T	Whitek whitek whitek	N/A	
er writer	$E = \int_{0}^{\infty} p(t)^{2} dt$	FE WALTER WALTER WALT	WILL MU	
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	Whitek whitek whitek	N/A	
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	LEE WHITEK WHITEK WH	TEK WATER W	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{ m dB}$ Note 2 to entry: See B.4 of EN 50332-3:2017 for	e white white white	unites unite	
	additional information.		at at	
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	The Mile while while while the state of the	N/A	
WALLER MALL	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.	a rifet whilet whilet	UNLIEK UNLIEK	
2	Modification to Clause 10		N/A	
10.6	Safeguards against acoustic energy sources	E. WILL MILL MAL	N/A	

	$E = \int_{0}^{T} p(t)^{2} dt$	MULTER WHITER WHITER WHITER WH
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	untitle white white white
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.	EX MILIER WHITEK MALTER MALER W
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	WHITEK WHITEK WHITE WHITE WHITE
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	WILLE MULTI MULT MULT MULT
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997- Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	N/A
	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.	while whitek whitek whitek whitek
2	Modification to Clause 10	N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	N/A
	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	Internative while while while while while
	<ul> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or</li> </ul>	NITER WHITER WHITER WHITER



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
ale.	THE THE THE THE	EN LITE INCIDENTAL	any and
	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	WHITEK WHITEK WHITEK	ounties outless
	subway, at an airport, etc.).		et et e
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	TEL WALTER WALTER WALTER	White white
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	TEX TEX STEX	OLIER OLIER
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	Mark Market Market Market	TEX MATER ON
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in	e unit unit	MULTER WHITE
	future. Therefore, manufacturers are encouraged t implement 10.6.5 as soon as possible.	10 Miles Marie	MUTI MUT
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video	net were w	NITER WITE V
	mode only. The requirements do not apply to:  – professional equipment;	it white white whi	. Was was
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	MULTER WALLER WHITEK	Miller Miller
	hearing aid equipment and other devices for assistive listening;	WILER MUTER ANTIER AN	TER ON TER ON
	<ul> <li>the following type of analogue personal music players:</li> <li>long distance radio receiver (for example, a</li> </ul>	TE MILTER WILLER WILL	ex multiple mult
	multiband radio receiver or world band radio receiver, an AM radio receiver), and  • cassette player/recorder;	MILER WHITER WHITER	MALTER WALTER
	NOTE 4 This exemption has been allowed becaus this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	my my my w	niter white wh
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>		White white



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- an	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
whitek whi	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.  The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	White white white was	ALTER WALTER	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz  The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).  For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn	Whitek wh	N/A	
10.6.2	to EN 50360 and EN 50566.  Classification of devices without the capacity to	estimate sound dose	N/A	
10.6.2.1 WE WALTER WALT	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 LAeq, T, 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 LAeq, T) 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, T becomes the duration of the song.  NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term LAeq, T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit.  For example, if the player is set with the	The white wh	TEK WILTER  WINLER  WI	
	programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	MULTER WILLER	White White	



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

10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	Mr which at at	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed		MALIER ON
	"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 ≤		VER A
	27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		¥ MALTE
	- The RS1 limits will be updated for all devices as per 10.6.3.2.		NLIEK
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	Will Must Miss Miss	N/A
TO.6.2.4	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.  RS3 limits	white	et white was a superior with the superior was a superior with the
Vriez AND	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	LIER WILLER WHILE WHILE W	Vrien All
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General  Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.		N/A



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Mr.		all all only	The Me	
10.6.3.2  JUNETER WINLEY  MITTER WIN	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 <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	Whitek whitek whitek	N/A	
	RS2 limits (new)  RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated	White	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	



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- 0	EN IEC 62368-1	in the the	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
apr.	M. M. J.	the out of the	Mr. Mr.
	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional safeguard</b> in accordance with Clause F.5, except that the <b>instructional safeguard</b> shall be placed on the equipment, or on the packaging, or in the instruction manual.	Mariek Whitek Whitek	AUDITER AUTITER
	Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	if mir mir mur	MUT MY
	The elements of the <b>instructional safeguard</b> shall be as follows:	MILIER MILIER WALTER	White White
	- element 1a: the symbol (2011-01) - element 2: "High sound pressure" or equivalent	WHITEK WHITEK WHITEK	niter voiter.
	wording  — element 3: "Hearing damage risk" or equivalent wording	LIFE WHITE WHITE WH	t wet w
	<ul> <li>element 4: "Do not listen at high volume levels fo long periods." or equivalent wording</li> </ul>	MILLER WHITE WHITE	Mur, Aug
	An <b>equipment safeguard</b> shall prevent exposure of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary</b>	Miles while while	MULT MULT
	person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	The little of	ier weier on
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mod of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	White white many	WALTER WALTER
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	THE WALLEY WALL	et united uni
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	e unifer whitek whitek	MITELY WALTER
ER WYLLE	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	itek unitek unitek uni	LEK MY EK M
10.6.5	Requirements for dose-based systems	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
10.6.5.1	General requirements	e until water water	N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.	SLIER WILLER WHILE	MILIEK MILIEK



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Clause	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	White whitek whitek whi	Verdict	
Mr.	races, etc.	" WILL WILL MULL	Mr. Mr.	
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.  The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	ntil whit white whi	iek wittek whitek	
10.6.5.3	Exposure-based requirements	24, 24, 2	N/A	
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.	is must any an	ex white white	
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	Martet matter waiter	TEK WITEK MU	
Whitek w	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than	TEX STEEL WITE	white whitek	



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" ale	EN IEC 62368-1	TER MITE WALL WALL	any any
Clause	Requirement – Test	Result – Remark	Verdict
1/2	M. M. M. T. LEH JE	A LIFE WITE WILL	weer and
unitek un	150 mV for an analogue interface and no more than -10 dBFS for a digital interface.  NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	WALLER WHILER ON	nitet mitet
10.6.6	Requirements for listening devices (headphone	s parnhones etc.)	N/A
ے ۔		s, earphones, etc.)	
10.6.6.1	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.  NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		
10.6.6.2	Corded listening devices with digital input	7/1, 7/1, 2,	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	Townster while while	ner until variet
10.6.6.3	Cordless listening devices	10 V	N/A
unch unit  tek unit  unitek  unitek  unitek  unitek  tek  tek  tek	In cordless mode,  — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and  — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and  — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	TEK SITEK MITEK	ex un tex unitex
10.6.6.4	Measurement method	I'm MALL MALL MALL	N/A
	Measurements shall be made in accordance with EN 50332-2 as applicable.	y tet tet tet	MLTE MLTEX



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

CLIEK		elete all the	"country" note	s in the refe	erence docume	nt according	to the following	P.
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	17 <sup>12</sup> - 14
	+ 1/1	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	ilik mu
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	LIE
	711	Table 13						211
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	ONLITER.
	2 Like	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	TEN AU
	ادران	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	EK WALT
	MATTE	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MALIER
	J. (8)	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	LIEK
	,t	Y.4.5	Note				1.5	74 1
مارية	N		1		AUY AV	-0, -	1/2 - 1/2	NIV.
	M	odification	to Clause 1					Р
	Add the following note:  NOTE Z1 The use of certain substances in electrical					w P		
	aı	nd electronic	use of certain equipment is 2011/65/EU.					UNLIEK.
	М	odification	to 4.Z1					Р



N/A

N/A

N/A

N/A

N/A

No connection to external

No such radiation from the

circuit.

equipment.

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installation, the installation instructions shall so state, except that for **pluggable equipment type A** the building installation shall be regarded as

Add the following to the end of this subclause:

**Add** the following to c) and d) in table 39:

additional requirements, see 10.5.1.

The requirement for interconnection with **external circuit** is in addition given in EN 50491-3:2009.

the wall socket outlet.

Modification to 10.2.1

Modification to 10.5.1

Modification to 5.4.2.3.2.4

6

5.4.2.3.2.4

10.2.1

8

providing protection in accordance with the rating of

EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
alle	THE THE THE	LITE OUT WALL	The The		
4.Z1	Add the following new subclause after 4.9:	20, 20,	N/A		
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. <b>mains</b> , 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;	n whitek whitek whitek	white		
	c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , to rely on dedicated overcurrent and short-circuit protection in	1) 1 1 1 1	s uns ul		
	the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	ex tex tex	ATER WILES		
	If reliance is placed on protection in the building	Mury Mury Mury	711 71		



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Victor Musical	EN IEC 62368-1					
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict	

10.5.1	Add the following after the first paragraph:	No such radiation from the	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	equipment.	MILLE
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	JANIER WHITER WHITER WHITER	A MULTER
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	LIER WHITER WHITE WHITE	WILL V
	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.	MULTER WALTER WALTER WAL	NATE OF THE
	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.	ALIER WALTER WALTER WALTER	WALTER W
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	White white white	IT EX WIT
WALTER.	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	TIEF MIET MITER WHITE	W WITE
9	Modification to G.7.1		N/A
G.7.1	Add the following note:	LIER MILE MALL WALL	N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	ek mitek anitek wateek	L'IEK W
10	Modification to Bibliography		N/A



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Victor Musical	EN IEC 62368-1					
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict	

3/12	of the test of the state of the	The .
et.	Add the following notes for the standards indicated:	N/A
West all	IEC 60130-9 NOTE Harmonized as EN 60130-9.	Mr. M
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	
TEN II	IEC 60309-1 NOTE Harmonized as EN 60309-1.	ITE OUT
211	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.	100
1	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	+ 1
The Wille	IEC 60664-5 NOTE Harmonized as EN 60664-5.	all the
10,	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	200
4	IEC 61508-1 NOTE Harmonized as EN 61508-1.	A LEAR
515 LD - 16	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	Whi.
200	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	
All .	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-8.	1
ne m	IEC 61643-1 NOTE Harmonized as EN 61643-1.	21/20 - 21/2
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	4. /
TER JE	IEC 61643-311 NOTE Harmonized as EN 61643-311.	The CLIF
21/2	IEC 61643-321 NOTE Harmonized as EN 61643-321.	. 10
4	IEC 61643-331 NOTE Harmonized as EN 61643-331.	+ 1+
11	ADDITION OF ANNEXES	
		N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	1000
4.1.15	Denmark, Finland, Norway and Sweden	N/A
1 1 S	To the end of the subclause the following is	JE 2
in an	added:	100
4 1	Class I pluggable equipment type A intended for connection to other equipment or a network	4 0
THE CITY	shall, if safety relies on connection to reliable	
201	earthing or if surge suppressors are connected	-20,
L 2+	between the network terminals and accessible	4 .2+
alite.	parts, have a marking stating that the equipment	The state of
20,	shall be connected to an earthed <b>mains</b> socket-	120
et-	outlet.	16
WELL WE	" WALL AND AN A CHARLE THE STEE STEEL WITH	Were all
	The marking text in the applicable countries	
18th 15	shall be as follows:	All I
The Mark		21/2
	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes	4 1
The Title	en stikkontakt med jord som giver forbindelse til	a alter
21/2	stikproppens jord."	24
J.	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	- 4
WITE N	In <b>Norway</b> : "Apparatet må tilkoples jordet	In Carrie
20, 20	stikkontakt"	20. 1
J. J.	In <b>Sweden</b> : "Apparaten skall anslutas till jordat	AEF.
Mile are	uttag"	Wer all
	undy the state of	

470	United Kingdom		NI/A
4.7.3	United Kingdom	The state of the sail	N/A
t JEK	To the end of the subclause the following is added:	at at at a	LIET
VILLER IV	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	White while with whi	WILER OF
20, 20,	see Annex G.4.2 of this annex	key were were and	7.



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Lange Committee	EN IEC 62368-1					
Clause	Requirement – Test	Aller Aller Aller	Result – Remark	at a	Verdict	

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	WILLE .
LIEK WALTE	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.	TEX MUTTER MUTTER MUTTER	METEK DIN
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:  For separation of the telecommunication network	white mit mi w	EX TEX
	from earth the following is applicable:	untile white white white	Mer
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	STEE WALTER WALTER WALTER	White w
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	et water water water w	
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	Whitek anitek and	t white
	If this insulation forms part of a semiconductor	WILL MULL MULL MULL	211
	component (e.g. an optocoupler), there is no		TEX.
	distance through insulation requirement for the insulation consisting of an insulating compound	THE MALL WALL	21/25 21/
	completely filling the casing, so that clearances and		× .
	creepage distances do not exist, if the component	THE THE PARTY OF T	The Will
	passes the electric strength test in accordance with the compliance clause below and in addition	The text is	EK STEK
	• 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),	during muriter muriter muriter	- Unliek 4
	and	LEK WALTER WALTER	in the an
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	Whitek whitek whitek wh	irk wair K
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	United Aurited Aurited Aurit.	White W
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	A MUTER MUTER MUTER	Wife and
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Whilek whilek whilek whi	TE JUNITER



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
on Tex and	the additional testing shall be performed on all the test specimens as described in EN 60384-14;  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.	White white white wh		
5.5.2.1	Norway  After the 3rd paragraph the following is added:  Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	White white white	N/A	
5.5.6	Finland, Norway and Sweden  To the end of the subclause the following is added:  Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	r wer we we	MA WALLE	
5.6.1	Denmark  Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Milet Milet White	AND ANA	
5.6.4.2.1	Ireland and United Kingdom  After the indent for pluggable equipment type A, the following is added:  - the protective current rating is taken to be 13 A this being the largest rating of fuse used in the mains plug.	an little whitek whitek	N/A	
5.6.4.2.1	France  After the indent for pluggable equipment type A, the following is added:  – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.		N/A	
5.6.5.1	To the second paragraph the following is added:  The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:  1,25 mm² to 1,5 mm² in cross-sectional area.	THE WALLEY WALLEY WAL	N/A	



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

	Troquilottic Tool		
5.6.8	Nonway:	Mill Mill Me	N/A
	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.	Aifek waitek waitek wa	nited with
5.7.6 TE	Denmark  To the end of the subclause the following is added:  The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	MUNITER MULTER WHITER	MILLER MILLER
5.7.6.2	Denmark  To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	LITER WHITER WHITER WHI	N/A I
5.7.7.1	Norway and Sweden  To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building.  Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	Not such system.	N/A
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.  The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	White whitek whi	while while h
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	United whited whitely whitely where the contract of the contra	t white whitek w
MUTEK W	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		MILIER MILIER



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Victor Musical	Mrs. Mrs. All Mrs.	EN IEC 62368-1	TEX MITEX WHITE W	71.	- 411
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict

24/2 24		CALLET MALTE MALT MI	11/2
MALTER WAL	Translation to Norwegian (the Swedish text will also be accepted in Norway):  "Apparater som er koplet til beskyttelsesjord via	NUTER WHITER WHITE	EE MITEE W
EX WEITEX	nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	ANTER MUTER MUTER	unit at white it
unitek unitek	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."		
8.5.4.2.3	United Kingdom	No external circuits.	N/A
MULLER MA	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:	unitest whitest white	NALTER W
ALTEK WALTE	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	THE WALTER MALTE	MILIER WA
B.3.1 and	Ireland and United Kingdom	The Little	N/A
B.4	The following is applicable:	Mur. Mur. Mr.	21,
Whitek Whitek	To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , 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 <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	MILITER WHITER	LIEN MALIEN  LIEN MALIEN  MALI
G.4.2	Denmark	711 72	N/A
Miles Milit	To the end of the subclause the following is added:  Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	MITER WHITER WHITER WHITE	Whitek mi
TEK WALTER	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with	Multer whiter whiter	WIN EX WILLEY
TEN S	standard sheet DK 2-1a or DK 2-5a.	The state of	EX JEX



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n. m.	EN IEC 62368-1	LIER INLIE WALL WAL	in the same
Clause	Requirement – Test	Result – Remark	Verdict
WALTER W	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.	White white white	MUNITER MILIER WAS
EX MITER	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.	is the surface while the surface which	et white white
Writek an	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	untile white white	Will Myr.
itek volit	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	art and the area	TEX WATER WATER
Jun.	Justification: Heavy Current Regulations, Section 6c	e mult mil mil	Mar Jiet
G.4.2	United Kingdom	White White White	N/A
All C	To the end of the subclause the following is added:		TEX STEX SI
LEX WATER	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, excep 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.	MILIER WHITEK WHITEK	EX MATER MUTER
G.7.1	United Kingdom	at at at	N/A
ount of out of the out	To the first paragraph the following is added:  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.		TEK ON TEK ON TEK
iner wh	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Write Marie Marie W	



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The wind	111 11 11 11 11 11 11 11 11 11 11 11 11	EN IEC 62368-1	TEL MITER WALLER	north an	711
Clause	Requirement – Test	Merce Merce Merce	Result – Remark	at a	Verdict

G.7.1	Ireland	711 20	N/A
	To the first paragraph the following is added:  Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance 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	ALTER WALTER WAL	
G.7.2	Ireland and United Kingdom	SLIEF WITE WALL WALL	N/A
	To the first paragraph the following is added:	in in the life	
	A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	of the intermeter	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	The The The The	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.	No CRT within the equipment.	N/A
	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, Tel.: Int+49-531-592-6320, Internet:	white whitek whi	

ZD IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)
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The Court	Any Any Any Any	EN IEC 62368-1	ITER WILLER WILLER W	tree Mery Augr
Clause	Requirement – Test	Mur, M. m.	Result – Remark	Verdict

Type of flexible cord	Code de	signations
	IEC	CENELEC
PVC insulated cords	l	
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	<u>s.</u>	ŧ.
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз ₹∨4-н
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-F
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F



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in mi	The The Table	N IEC 62368-1	Mrs. Mrs.
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificati	on of electrical er	nergy sourc	es	16th 15th	IL CLIEB	N P
Supply Voltage	Location (e.g.	Test conditions	Parameters		ES Class		
Voltage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
3.0VDC	All circuit	Normal	<60Vdc	TEX - JEX	SS	DC	ES1
	at the set	Abnormal	mr. m	- 'TL' .	, - <u>,</u>	4 - A	+
	is must must	Single fault – SC/OC	nliek-	ek unitek un	TER-WAL	e witte	on the

### 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

Remark: Powered by ES1 circuit.

5.4.1.8	TABLE: Working	voltage measu	rement	Mr. Mr.	211, 211,	N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	
FIF RITE		J 1_1C	" <u> </u>		THE THE NUT	er ni
- 20	* *	Cit Cit is	LIER NILIE N	Tr. Ant.	2115 211 - 201	7
Suppleme	ntary information:					
2	* # 1	H JEH OU	anti with	an a	- m - m	7

5.4.1.10.2 TABLE: Vicat s	I.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Method		: ISO 306 / B50	* Just . —				
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)				
E WILL WALL WALL	n n - + +	THE THE STATE	ALTER MATERIALITY				
Supplementary information:							
WILL WILL MALL MA	4	EH TEH JEH	eter mile with				

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics							
Allowed im	pression diame	eter (mm)	:	≤ 2 m	m <sup>r</sup>	<i>y</i>		
Object/Part No./Material Manufacturer/trademark Thickness (mm				(mm)	Test temperature (°C)	Imp	ression eter (mm)	
t niter	UNLIE WALTE	Anti An An	J	<u>+ ,                                   </u>	et 1 <del>4</del> 11		EL OLIE	
Supplemen	tary informatio	n:						
STEE 10	LTE WALL	ani an	e st	.6	+ LET SET	JUET	WITE S	



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Victor Musical	Mrs. Mrs. All Mrs.	EN IEC 62368-1	TEX MITEX WHITE W	71.	- 411
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
RETER WALL MALL MAN A	· ·			A- A	# -5 <sup>6</sup>	. Tier	intie" in	: 17 - 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Supplementary information:

- Only for frequency above 30 kHz
   Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2 TABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)			
THE THE THE STITE	inlife online our	1. 20. 2.	_ <del></del>	ال <del>ال</del> ي. الج			
Supplementary information:							
*See also sub-clause 5.4.4.9	LIE WILL MILL MI	70 7	at at	TEX TEX			

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz							
Insulation m	naterial	<b>E</b> P	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)	
reite meti	14. 14.	$-i$ $\sqrt{z_n}$	//-	- 10		TIER WILLE	-write w	
Supplementary information:								
No. Will	21/2 -21		J. C	Let Je	- CT - CT	Par Chill	MALL WALL	

5.4.9	TABLE: Electric strength tes	sts		N/A
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functiona	11:14 THE STEE WITE WAS	Mr. M. M.	4 14 16	it telt .
- 241.	My An An	- The life wife.	WILL MULL MULL	me - m
Basic/sup	plementary:	Mr. Mr. Du	at at all	JEK JE
- 2/1	Sur Sur St.	TIE WIFE WIFE M	The water was	20/2 - 20/2
Reinforce	d: Liet white white	in in in	t let let	TEN STEE
-201.		LIEB - LIEB WHILE WHI	- Mrs. Mrs. 2	1, 1,
Routine T	ests:		TEX SEX ST	TEX WITE OF
	s at let let help	EL STE WILL WILL	The Me M	-
Suppleme	entary information:			

5.5.2.2	TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage	ES Class	



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S. Mr.	The same of the sa	EN IEC 62368-1	Mrs. Mrs.
Clause	Requirement – Test	Result – Remark	Verdict

				(Vpk)	
while are in the	nu nu	Normal	ان المطالب المان	ini <u>se</u> whi	in the su
TIEK WILEK	WALTER WALTER WA	Single fault: SC/ OC	70 _ 70°	LIEN ALTE	- MITEL MALT

### 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	f protective cond	uctors and terminati	ons	N/A
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
- m m m	1 - 1 th	OLITER WALL WALL	MUTI - MUT	2012 - 201
Supplementary information:				
711. 111.	A At .	LIE MITE MILL	mr. mr	1n 1n

5.7.4 TABLI	E: Unearthed acces	ssible parts	ER LIER KIT	" WITE WALT	ant	N/A
Location	Operating and	Supply	F	Parameters		ES class
	fault conditions	nditions Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	
L/N to secondary terminals	Normal		- A	100	LIFE - IN	The White
	Abnormal: overload	The Mills of	N JAN W		ek _016	- TEK
	Single fault: SC/ OC	k mizze mi	TE VINITE VINI	700 - 100	70	70 <u>-</u>
Supplementary info	ormation:					
SC= short circuit; (	DC= open circuit	They are	24. 24	4 1	.+	Let S

5.7.5	TABLE: Earthed acces	sible conductive part			N/A		
Supply vol	tage (V)::	- 1 1 1	- I I I THE THE STIFF MITTER MITTER				
Phase(s).		[] Single Phase; [] Three	Phase: [ ] Delta	[] Wye			
Power Dis	tribution System:	[]TN []TT []IT					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt		
ter in	741. 24.	Alt Car State of	ille J <del>e</del> lle W	in also - 4	1 m		
Suppleme	ntary Information:						
r. Wer	24. 24. 24.	at at let o	Ell Street net	white whi	Tolle.		

5.8	TABLE: Backfeed safeguard in battery backed up supplies								
Location	\	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class		



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			EN EN	NIEC 62368-	Tile with wh		
Clause	Require	ement – Test	WALL WALL	24. 24	Result – Remar	k .	Verdict
M	71, 1	, ,		- 18th - 5	EL CALLE CONTR	aler, all	in the
<sub>.et</sub>		TEX TEXT	WILL MANY	24 2th		J.	J 75
Suppleme	entary info	rmation:					
A.	ret re	F THE	LIFE OLIVE SIN	12. 12h	20, 1		

6.2.2 TABLE: Power source circuit classifications								
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class		
All circuit	111 TH	LEK TEK OF	TEK WEITER	NITER WALTE	Murit Muri	PS1 (declare)		

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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	24, 24, 24,	1 1 1	N/A			
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No			
-alie an	LIL WILL ME	m. m.	1 # 18 B	TEN - LIER	SLIFE STATE			
Supplementary information:								
NITE INLI	The Jan T	24		TEX N	TE WITE WA			

5.2.3.2 TABLE: Determination of resistive PIS							
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No				
- Mr. Mr. Mr. M.	The state of	LITER NOTE WALLE	ance and				

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.

8.5.5	TABLE: High pr	essure lamp	171	IE WILL MILL	mr. m.	c <sub>tt</sub>	N/A
Lamp manu	facturer	Lamp type		Explosion method	Longest axis of glass particle (mm)		ticle found nd 1 m Yes / No
T. Mir.	me m		(EX	- LIEK NITEK INI	ER WILL MULL	un.	r 200
Supplementary information:							
21/2/ 1	11. 21. 25.		+	TER CIER LIFE	WITH MACH	MIL	in.



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Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict

0.0		E: Temperature measurements for wireless power transmitters						N/A
Supply voltage (V)					K SITER	JALIE NA	The Mil	_
nit powe	er of transn	nitter (W)	-212	2 1/1	10		et e	_
								eiver and at ce of 5 mm
jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
77. 1	Vr MV.	7/2		A-	etet		aliet and	The Marie
J.	d - 16	t JEK	.clier s	1577 - W.	m	20,-		+
11/2	- مالت	-24.		J+ JE	- <del>- 1</del> 64	JE S	51 <sup>65</sup> 10116	" " " " " " " " " " " " " " " " " " "
ary info	rmation:			1				
	pjects	w/o rece	w/o receiver and direct contact  Object (°C)	direct contact direct  Object (°C) (°C) (°C)    direct contact direct  Object (°C) (°C)	w/o receiver and direct contact  Object (°C) (°C) (°C) (°C)	w/o receiver and direct contact with receiver and direct contact Object (°C) C) C C C C C C C C C C C C C C C C C	w/o receiver and direct contact  Object (°C)  Object (°C)	w/o receiver and direct contact with receiver and distance of 2 mm distanc

5.4.1.4, 9.3, B.1.5, B.2.6	9.3, B.1.5, B.2.6 —									
Supply voltage (V)		:	3.0Vdc	50t 50	E NEET	امنيك - مانا	_			
Ambient temperature of	luring test T <sub>amb</sub>	(°C):	See below	-71,	-/-	J J.	_			
Maximum measured to	emperature <i>T</i> of		Т	(°C)		Allowed T <sub>max</sub> (°C)				
PCB near U1		27.5	7.7	Jr - J	No.	130				
PCB near U2	27.2	245 3	11 71		130					
Enclosure inside	201 - 201		26.7	A	JEHJEH	JALIE M	Ref.			
Enclosure outside	TEN ST	WILL	26.3	-30	20.		48			
Switch	10, 10,	<i>&gt;</i> +	25.6	EX UK	Je RILLER	NITE -NIC	48			
Ambient	LITER SLIFER	antin.	25.0	20		ىر بىر	, <del>4</del> .			
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class			
E JULIE WALL AN	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		1 - A	754	JEK- JE	NETER .	Will - Will.			

### Supplementary information:

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

B.2.5	TA	BLE: Inp	out test	WALTE	anin a	100 1	10 14	P. P.
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
3.0VDC <sup>1)</sup>	<u> </u>	0.008	mr - m	0.024	.ta	Ç <sub>X</sub>	£ 18	Normal working.

<sup>\*</sup> Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 25°C.



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EN IEC 62368-1								
Clause	Requirement – Test	VII. WE ALL MY	Result – Remark	Verdict				

Supplementary information:									
<sup>1)</sup> Supply by alkaline or zinc-car	bon batteries.	J.	JEK .	CLIFEE .	NLTE.	WILLE .	Merce	Mr	211

B.3, B.4	TABLE: Abnor	mal operating	g and fau	It conditi	on tes	sts	LIER SLIER MITE	Unit Punt
Ambient ten	nperature T <sub>amb</sub> (°	C)			70,00	See b	elow	_
Power sour	ce for EUT: Man	ufacturer, mo	del/type,	outputratir	ng:	اللي`	ER WILL MILLE M	_
Componen No.	t Condition	Supply voltage (V)	Test time	Fuse no.		ise ent (A)	Observatio	n
U2 pin 7-8 SC	S-C	3.0Vdc	10min	V <sub>TT</sub> <sup>2</sup> 01	0.0	004	Unit shutdown, no dar hazard.	naged, no
U1 pin 9-10 SC	S-C	3.0Vdc	10min	YEL WILL	0.0	004	Unit shutdown, no dar hazard.	maged, no

#### Supplementary information:

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

- 1) S-C: Short-circuited; O-L: Overloaded; BL=Blocked.
- 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	its f	or batterie	es provide	ed w	/ithin	the equ	ipment		N/A
Is it possible	to install the	battery in a re	vers	e polarity	position?	:	C. C.	MILLE	21/2/2	11/1/	_
					С	harg	jing				
Equipment S	pecification		Vo	ltage (V)					Current	t (A)	
		The Maria	21/2	-2 <sub>0</sub> ,	- V	· d	Į-	All I	(E* -,	cet	OLIER WIT
					Battery	spe	cifica	tion			
		Non-recharge	able	batteries			Red	hargeabl	e batter	ies	
		Discharging		ntentional	C	Char	ging		Dischar		Reverse
Manufactu	urer/type	current (A)		harging ırrent (A)	Voltage (	(V)	Curr	ent (A)	current	(A)	charging current (A)
at di	t SEX	LIFET - NLIFET	w	n- mr	n.	10			, <del>-</del>	.0+	At .
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when abov	e appropri	ate o	data i	s not avai	lable.		
Specified bat	tery tempera	ature (°C)	,0			:	8		Æ	est-	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltage (V)		Obse	rvation
Mr. M	r. nr.	7/1, -		e <del>t</del>	<6 <sup>+</sup> ≤5	*	-JE	. NETER	JALIE	أدراء	J. W.
, (i) A	et -jet	SLIER WIFE		Vr 20	-an	-7	0	20	-,4		
Supplementa	ry informatio	n:									

<sup>1)</sup> Supply by alkaline or zinc-carbon batteries,



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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.

Button cell used, not Rechargeable batteries.

M.4.2	TABLE battery	: Charging sa	feguards for	equipment co	ntaining a	secondary lithium	N/A
Maximum	specified	charging voltag	je (V)		JE STEET	White White M	_
Maximum	specified	charging currer	nt (A)	10, 10,	.:	at at a	_
Highest s	pecified ch	arging tempera	ature (°C)		.i	VIII MUTIC MUTI	
Lowest sp	pecified cha	arging tempera	ture (°C)		.:	at at all	
Battery		Operating		Measurement		Observat	ion
manufact	urer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Lowest sp	ecified cha	arging temperat	ure:	- 24 24	7	st st	et de
nur	THE Y	Normal	NITEK - MITEK	MULICH MU	IEL WATER	III THE THE	- VIII
		Abnormal-	+	JEE JE	nli <del>ell</del> an	L'- WALL WALL	Mr
		Single fault – (SC/OC)	10-10	13 11		"TITEL MITEL	UNLIEK W
Highest s	pecified ch	arging tempera	ture:		-2	1	at a
e me	'n'	Normal	LIEK MILI	EK TEK VI	LIE WALTE	Aurie Murre Mu	r 21/2
		Abnormal-	201 - X	, <del>±</del>	J. Little	NACE MITTER MALT	WILL
		Single fault – (SC/OC)	TIER AVILLE	Mur - Mur	711 7		JEK

### 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 inter	ded for interconnection with building wiring (LPS)						
Output Circuit	Condition	11 (\( \( \) \( \)	Time (a)	I <sub>sc</sub>	(A)	S	(VA)	
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit	
ines with	Normal	, <del>,</del> , , , ,	18- J	t Tier	8.0	ir atti	100	
	Single fault - SC/OC	" " " " "	1n	'u,'''	8.0	,+	100	

SC = short circuit, OC = open circuit



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100	The same of the E	EN IEC 62368-1	mer me
Clause	Requirement – Test	Result – Remark	Verdict

	TABLE: Steady force test						LIE RUTE MAIN
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)		Observation
# <del>-</del> #	of <sup>g±</sup> of	CER TO	المالي المالم	s 4 <sub>0</sub>	- Zn	- 1	at alt alt .
100, 1	n - an		.t	£ 3	et -Jet	TO THE MILE	ic mir mir m

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

T.6, T.9 1	ABLE: Impa	ct test	- LEF	JEK NITEK IN	LIEK -ND	المالة المالة	21/2	N/A
Location/Part	Material	Thickness (mm)	Height (mm)		Obser	vation		
4 - A	LEK - TEX	THE STEEL	write wit	- 116 AH	20,	~ ~	<i>*</i>	, it
Supplementa	ry information:							
*Test was pe	formed on pro	oduct with each so	urce listed in	table 4.1.2.	100	, (	J. t	76th

T.7 T/	ABLE: Drop	test 🚣 🌊	No. Color	N AN AN AN AN	I/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	
TEK INTER	-10			The life out the	-INLITE
Supplementary	/ information:				
LILE JOY	White .	me me		at the the life wife of	T.

T.8 T.	ABLE: Stress	s relief test	10	·	x A	TEX TEX	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)		Observation	
.t = .t	LET - JET	NIFER NIFER	ann - ann	The state of the s	70. 2	1 1	at at
Supplementary	information:						
*Test was perfo	ormed on pro	duct with each sou	urce listed in t	able 4.1.2.	10 10		L 25

X TA	BLE: Alternativ	e method for de	termining m	inimum cle	arances	distances	N/A
Clearance betwe		Peak of working (V)	voltage	Required of (mm)	:I		sured cl nm)
Caller Miller M	TIL MILL AN	r. 2n - 1		۸ ای	est of	# WEN	WITER WA
Supplementary	information:	-					
ALTE WALL	were me	14, 1		at at	- JEX	JET 1	LIFE MITE



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

4.1.2	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Plastic enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	ANC180	V-0, 60°C, Min. Thickness 1.5mm	UL 94, UL 746	UL E162823
PCB	SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX-M	V-0; 130°C	UL 94 UL 796	UL E250336
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL July
Internal wires	Interchangeable	Interchangeabl e	Min. 26AWG, Min. 80°C, Min. 300V, VW-1	UL 758	ULTER WILL

Supplementary information:

<sup>&</sup>lt;sup>1)</sup> License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



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## **Photo Documentation**

Reference No.: WTF24D05112928Y



Picture 1 Overall view



Picture 2 Overall view



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## **Photo Documentation**

Reference No.: WTF24D05112928Y



Picture 3 Internal view



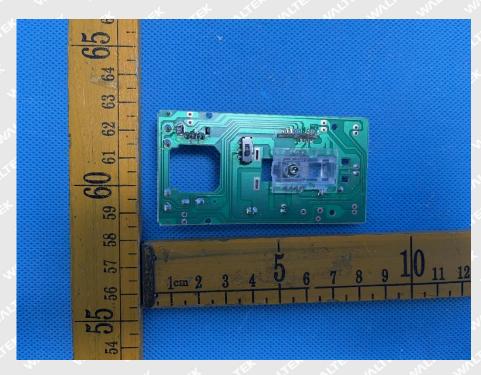
Picture 4 Internal view



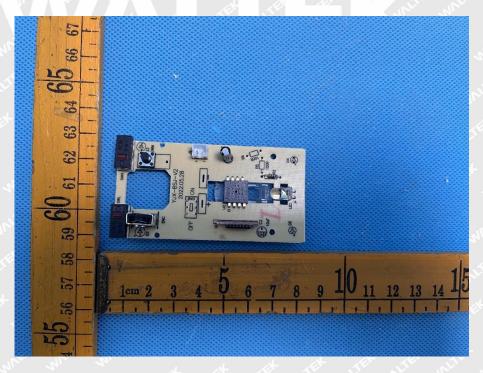
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# **Photo Documentation**

Reference No.: WTF24D05112928Y



Picture 5 PCB trace view



Picture 6 PCB trace view

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

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