



		TEST REPORT
Reference No	: `	WTF23D09201689Y
Applicant	in.	Mid Ocean Brands B.V.
Address		7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer		106613
Address	C. E.C.	NOT LIFE WALTE WAT WAT AN A SEC TEX TEX
Product	÷	Wireless mouse
Model(s)	10	MO8117
Total pages	: 3	66 pages and 4 pages of photo.
Standards	Mur	⊠ EN IEC 62368-1: 2020+A11: 2020
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample	j.et	2023-09-15
Date of Test	: <	2023-09-15 to 2023-10-10
Date of Issue	۱. ۲	2023-10-13
Test Result	1	Pass the tree of an international and

#### Remarks:

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

### Prepared By: Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China Tel:+86-769-2267 6998 Fax:+86-769-2267 6828

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Soap Hu / Project Engineer

Approved by:

Almon Zhao / Designated Reviewer

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Trademark .....

Model and/or type reference ......:

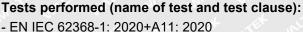
Test item description.....: Wireless mouse

Rating(s)..... Input: 2\*AAA

If Yes, list the related test items and lab information:

The submitted samples were found to comply with

the requirements of above specification.



Testing location:No.77,HoujieSection,GuantaiRoad,HoujieTown,DongguanCity,Guangdong,China

Summary of compliance with National Differences (List of countries addressed):

MOB

Whether parts of tests for the product have been subcontracted to other labs:

🛛 No

MO8117

EU Group Differences

Remark:

Yes

Test items: --Lab information: --Summary of testing:

The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020.

### Use of uncertainty of measurement for decisions on conformity (decision rule) :

 $\boxtimes$  No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

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Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

### Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

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

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Copy of marking plate:



### Remark:

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

TEST ITEM PARTICULARS:	N'I WALL WALL WALL AT A LET
Product group	🛛 end product 🗌 built-in component
Classification of use by:	<ul> <li>Ordinary person</li> <li>Instructed person</li> <li>Skilled person</li> </ul>
Supply Connection:	<ul> <li>AC mains</li> <li>DC mains</li> <li>DC mains</li> <li>ES1</li> <li>ES2</li> <li>ES3</li> </ul>
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 in other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<ul> <li>□ UK: 13 A; Others: 16 A;</li> <li>Location: □ building □ equipment</li> <li>☑ N/A</li> </ul>
Equipment mobility:	<ul> <li>movable</li> <li>hand-held</li> <li>transportable</li> <li>direct plug-in</li> <li>stationary</li> <li>for building-in</li> <li>wall/ceiling-mounted</li> <li>SRME/rack-mounted</li> <li>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 II □ Class II
Access location:	<ul> <li>N/A □ restricted access area</li> <li>outdoor location □</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 L-L ☑ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	⊠ 0.06kg

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POSSIBLE TEST CASE VERDICTS:	and when when we are at 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:	when when we get get of
Date of receipt of test item	: See cover page.
Date (s) of performance of tests	: See cover page.
GENERAL REMARKS:	where where white white white white
"(see Enclosure #)" refers to additional information a "(see appended table)" refers to a table appended to	
Throughout this report a 🗌 comma / 🖂 point is	used as the decimal separator.

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GENERAL PRODUCT INFORMATION:

#### **Product Description**

- 1. The equipment with model MO8117 is Wireless mouse.
- 2. The maximum operating temperature is 25°C.

### Model Differences

N/A

Additional application considerations – (Considerations used to test a component or subassembly) N/A

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5		P
	9	

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	N/A
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S
PS1: <15 Watt circuits	РСВ	N/A	N/A	N/A
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A
7	Injury caused by hazardous	substances		<u> </u>
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A start start	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: 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
RS1: LED for indicating	Ordinary	N/A	N/A	N/A



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	ENERGY SOURCE DIAGRAM						
Indicate which er	ergy sources are inc	luded in the	e energy sou	ırce diagram	. Insert diagram be	elow	
at at	Let Set as	Jer Mile	with 5	we m	-14	t it	
	S ES	🛛 PS	🖂 MS	🖉 TS 🖉			
	See details in OVE	RVIEW OF	ENERGY S	OURCES AN	ND SAFEGUARDS		



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Clause	Requirement – Test	Result – Remark	Verdict	

4	GENERAL REQUIREMENTS		P
4.1.1 📣	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	"Ф Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	AND P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	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	N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests	the star with still a	N/A
4.4.3.3	Drop tests	Un mun min in	N/A
4.4.3.4	Impact tests	of the state miles and	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
or wh	Glass impact test (1J)	NIEK MIER WHITE WHITE W	N/A
t st	Push/pull test (10 N)	s s a a	
4.4.3.8	Thermoplastic material tests	I The Martin Martin WALL WALL	N/A
4.4.3.9	Air comprising a safeguard	a de de de	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E MALLE MILL MALL MALL	N/A
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	white white white white y	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	of P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	, P



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an.	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
NITEX I	No harm by explosion during single fault conditions	(See Clause B.4)	P		
4.6	Fixing of conductors	See below	N/A		
NUTE MAI	Fix conductors not to defeat a safeguard	Tet the milet with	N/A		
1 0	Compliance is checked by test	in which we want	N/A		
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A		
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A		
4.7.3	Torque (Nm)	t allet miles while wh	N/A		
4.8	Equipment containing coin/button cell batteries	5	N/A		
4.8.1	General	No coin/button cell batteries used.	N/A		
4.8.2	Instructional safeguard	TEX WIFE MITER MATE	N/A		
4.8.3	Battery compartment door/cover construction	- Mr. W	N/A		
wat	Open torque test	et whet white white w	N/A		
4.8.4.2	Stress relief test	w to the	N/A		
4.8.4.3	Battery replacement test	MUTER INTER WALTE WALT	N/A		
4.8.4.4	Drop test		N/A		
4.8.4.5	Impact test	and white white	N/A		
4.8.4.6	Crush test		N/A		
4.8.5	Compliance	TE WATT WAT WAT	N/A		
t stet	30N force test with test probe	e at at at	N/A		
- In .	20N force test with test hook	while white whe wh	N/A		
4.9	Likelihood of fire or shock due to entry of cond	luctive object	P		
4.10	Component requirements	When when whe we	N/A		
4.10.1	Disconnect Device	at the set state	N/A		
4.10.2	Switches and relays	up any an	N/A		

5	ELECTRICALLY-CAUSED INJURY			
5.2	Classification and limits of electrical energy sources			
5.2.2	ES1, ES2 and ES3 limits	Martin Mart Mart Mart	Р	
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	ŇP	
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	Mr. M. M.	N/A	
5.3	Protection against electrical energy sources	Tex street inter inter	N P	



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~~~	EN IEC 62368-	the strength of the	a s.
Clause	Requirement – Test	Result – Remark	Verdict
sur :	N. W. S. A. A. A. A. M.	Er white white white wh	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	the the state out	Pet Pet
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	MUT MUT MU M	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	NUTER WALTER WALTER WALTER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
where w	Accessibility to outdoor equipment bare parts	t when when which wh	N/A
5.3.2.2	Contact requirements	when we we do	N/A
mer m	Test with test probe from Annex V	white multi white white	
5.3.2.2 a)	Air gap – electric strength test potential (V)	so it it it	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIET MILE MALL MALL	N/A
5.3.2.3	Compliance	1 1 A At	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	A A A A	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3 🧹	Material is non-hygroscopic	at the set	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)	Р
5.4.1.5	Pollution degrees	ite unit white white	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	t wiret miret united wi	N/A
5.4.1.5.3	Thermal cycling test	w w	N/A
5.4.1.6	Insulation in transformers with varying dimensions	NUER INTERNATION	_√ <sup>™</sup> N/A
5.4.1.7	Insulation in circuits generating starting pulses	i i at st	N/A
5.4.1.8	Determination of working voltage	NUE MUT MUT MUT	N/A
5.4.1.9	Insulating surfaces	1 A A At	N/A_
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	white white white w	N/A
5.4.1.10.2	Vicat test	NUTER INTER MUTER WAT	N/A
5.4.1.10.3	Ball pressure test	The state of	N/A
5.4.2	Clearances	INTER INTERIORIE WALL	N/A
5.4.2.1	General requirements	s at at at	N/A
t st	Clearances in circuits connected to AC Mains, Alternative method	are water water water	N/A
5.4.2.2	Procedure 1 for determining clearance	et outer uniter white w	N/A
dit.	Temporary overvoltage	the state of	. —
5.4.2.3	Procedure 2 for determining clearance	the shire white white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3.2.2	a.c. mains transient voltage	We we all	
5.4.2.3.2.3	d.c. mains transient voltage	ALTER MUTER MATER	while -
5.4.2.3.2.4	External circuit transient voltage	State of the state	<u></u>
5.4.2.3.2.5	Transient voltage determined by measurement	MUTER WALTER WALTER	N° -
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	ret miret miret wa	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t set wet with	N/A
5.4.2.6	Clearance measurement	me in in	N/A
5.4.3	Creepage distances	Tet still white	N/A
5.4.3.1	General	m. m. s.	N/A
5.4.3.3	Material group	WIEL MILE MUTE W	ы. —
5.4.3.4	Creepage distances measurement	i i i it	N/A
5.4.4	Solid insulation	et intre while whi	N/A
5.4.4.1	General requirements	t at at	N/A
5.4.4.2	Minimum distance through insulation	white white white	~ <sup>N</sup> /A
5.4.4.3	Insulating compound forming solid insulation	the state	N/A
5.4.4.4	Solid insulation in semiconductor devices	and and a	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	its mus mus mus	N/A
5.4.4.6.1	General requirements	at let let let	N/A
5.4.4.6.2	Separable thin sheet material	my my m	N/A
INITE INN	Number of layers (pcs)	. Tet utet suret	N/A
5.4.4.6.3	Non-separable thin sheet material	Mr. Mr. M.	N/A
LIE MALL	Number of layers (pcs)	ster ster outer of	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at at alt	N/A
5.4.4.6.5	Mandrel test	any me an	N/A
5.4.4.7	Solid insulation in wound components	t the set all	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	when when we	N/A
the set	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	white white white	N/A
5.4.5	Antenna terminal insulation	LIER MALIE WALL WA	N/A
5.4.5.1	General	s at at a	, → N/A
5.4.5.2	Voltage surge test	antit when when	N/A
5.4.5.3	Insulation resistance (MΩ)	a de de	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
<u></u>	Electric strength test	mi por all	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	white white white of	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WALTER WALT	N/A
5.4.8	Humidity conditioning	it at at 5th	N/A
- Tex	Relative humidity (%), temperature (°C), duration (h)	with with with	
5.4.9	Electric strength test	white white white v	N/A
5.4.9.1	Test procedure for type test of solid insulation	at the state of	N/A
5.4.9.2	Test procedure for routine test	WALL WALL WALL WA	N/A
5.4.10	Safeguards against transient voltages from external circuits	stet milet white white	N/A
5.4.10.1	Parts and circuits separated from external circuits	s as at at	_⊘ <sup>_</sup> N/A
5.4.10.2	Test methods	ET MALTE WALT WALT	N/A
5.4.10.2.1	General	the state	N/A
5.4.10.2.2	10.2.2 Impulse test		N/A
5.4.10.2.3	Steady-state test	at the start	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	- a fur we	N/A
5.4.11	Separation between external circuits and earth	ite intre white white	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	t with with with	N/A
5.4.11.2	Requirements	the the	N/A
mr. m	SPDs bridge separation between external circuit and earth	MALTER WALTE MALT WA	N/A
The WULL	Rated operating voltage U <sub>op</sub> (V)	ster ster atter with	
* #	Nominal voltage U <sub>peak</sub> (V)	an with the stand	
when	Max increase due to variation $\Delta U_{sp}$	let ourer ourer would	_n —
. At	Max increase due to ageing $\Delta U_{sa}$	the state	
5.4.11.3	Test method and compliance	mile while while w	N/A
5.4.12	Insulating liquid	s at at	N/A
5.4.12.1	General requirements	WHITE WALL WILL WILL	N/A
5.4.12.2	Electric strength of an insulating liquid	A DE DE D	N/A
5.4.12.3	Compatibility of an insulating liquid	the wait wat wat	N/A
5.4.12.4	Container for insulating liquid	at at at at	N/A
5.5	Components as safeguards	which whe we	N/A
5.5.1	General	No such components as safeguards.	N/A



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01	EN IEC 62368-	1	
Clause	Requirement – Test	Result – Remark	Verdict
5.5.2	Capacitors and RC units	with with with	N/A
5.5.2.1	General requirement	UTER NUTER WHITE	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	the set set	N/A
5.5.3	Transformers	les me me	N/A
5.5.4	Optocouplers	NET JUET ALLET AND	N/A
5.5.5	Relays	24 24 24	N/A
5.5.6	Resistors	t whet white white	N/A
5.5.7	SPDs	All an at	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	Mailer Mailer Mailer	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIET WAITER WAITER WA	N/A
at intree	RCD rated residual operating current (mA)	et tet stet site	- 1
5.6	Protective conductor	me m m	N/A
5.6.2	Requirement for protective conductors	t stat stat when	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	at intra-	N/A
5.6.3	Requirement for protective earthing conductors		N/A
er mer	Protective earthing conductor size (mm <sup>2</sup> )	JER MITE MATE MAT	× 4 –
+ UNITEX	Protective earthing conductor serving as a reinforced safeguard	at the tree with	N/A
ALTEX I	Protective earthing conductor serving as a double safeguard	with which the	N/A
5.6.4	Requirements for protective bonding conductors	white white white	N/A
5.6.4.1	Protective bonding conductors	alt alt alt a	́ N/А
	Protective bonding conductor size (mm <sup>2</sup> )	her me me m	_
5.6.4.2	Protective current rating (A)	et stet stet with	N/A
5.6.5	Terminals for protective conductors	m. m. m	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	white white white	N/A
milet un	Terminal size for connecting protective bonding conductors (mm)	Whitek whitek whitek w	N/A
5.6.5.2	Corrosion	it the late of	
5.6.6	Resistance of the protective bonding system	the water water was	N/A
5.6.6.1	Requirements	at at at all	N/A
5.6.6.2	Test Method	white white white	N/A
5.6.6.3	Resistance (Ω) or voltage drop	the state of the	N/A



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	EN IEC 62368-	the mile water water	
Clause	Requirement – Test	Result – Remark	Verdict
5.6.7	Reliable connection of a protective earthing conductor	the set set set and	N/A
5.6.8	Functional earthing	Mr. Mr. M. M.	N/A
ure ani	Conductor size (mm <sup>2</sup> )	tet set whet when	N/A
1 1	Class II with functional earthing marking	the she she sh	N/A
MALL	Appliance inlet cl &cr (mm)	Tex where where while a	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	et aller miller while wh	N/A
5.7.2.1	Measurement of touch current	Star at the	N/A
5.7.2.2	Measurement of voltage	WITER WATE WALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	Tet aller wifet while	N/A
5.7.4	Unearthed accessible parts	a the second	N/A
5.7.5	Earthed accessible conductive parts	et allet and enable white w	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	Tet stat with the	N/A
	Protective conductor current (mA)	when when any an	N/A
NUTE ON	Instructional Safeguard	at ante outer on the	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	a way way way	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	A WALTER WALTER WAITER WA	N/A
5.7.8	Summation of touch currents from external circuits	stret white white white	N/A
LIEK MAL	a) Equipment connected to earthed external circuits, current (mA)	The week much much	N/A
et uter	b) Equipment connected to unearthed external circuits, current (mA)	at let get get	N/A
5.8	Backfeed safeguard in battery backed up supplies		
INLIE	Mains terminal ES	No battery used	N/A
	Air gap (mm)	mer me me m	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	at at the fit with	STE P.N
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



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Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	P
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	THE 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
n. in	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condition	tions	P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	et milet whilet whilet w	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	stret miret antiet whi	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions	art mult mult	N/A
to the	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	inter intre white white v	P
6.4.5	Control of fire spread in PS2 circuits	i stat at .	⊘⊢ N/A
6.4.5.2	5.2 Supplementary safeguards		N/A
6.4.6	4.6 Control of fire spread in PS3 circuits		N/A
6.4.7	Separation of combustible materials from a PIS	white white white whe	N/A
6.4.7.2	Separation by distance	a at set set	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
1	Openings dimensions (mm)	with the second second	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

	Openings dimensions (mm)		N/A
were w	Flammability tests for the bottom of a fire enclosure	white white white and	N/A
LITE MAL	Instructional Safeguard	the state what what	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
MALIT	Openings dimensions (mm)	tet with anter and and	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	white white white white	N/A
6.5 5	Internal and external wiring		<u></u> 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.	P
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	√ <sup>™</sup> P
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A s
6.6	Safeguards against fire due to the connection to a	ditional equipment	×Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES         Reduction of exposure to hazardous substances	
7.2		
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
d.	Personal safeguards and instructions	-
7.5 📣	Use of instructional safeguards and instructions	N/A
dt 3	Instructional safeguard (ISO 7010)	
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY         Mechanical energy source classifications         Safeguards against mechanical energy sources		- √P
8.2			P
8.3 📣			30° P - 4
8.4	Safeguards against parts with sharp edges	and corners	P
8.4.1	Safeguards	Frank WALT WALT WALT	Р
* WALTER	Instructional Safeguard	: MS1: Edges and corners of enclosure	P.S
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Pot



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Clause	Requirement – Test	Result – Remark	Verdict

8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
ITE WALL	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
et ster	Moving MS3 parts only accessible to skilled person	it it let set	N/A
8.5.2	Instructional safeguard	we we we we	N/A
8.5.4	Special categories of equipment containing moving parts	+ untret untret untret and	N/A
8.5.4.1	General	at at at st	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	White white white white	N/A
8.5.4.2.1	Protection of persons in the work cell	at at set set	N/A
8.5.4.2.2	Access protection override	er me me me	N/A
8.5.4.2.2.1	Override system	et tet ster ster of	N/A
8.5.4.2.2.2	Visual indicator	Mr. M. M.	N/A
8.5.4.2.3	Emergency stop system	Lifet alifet miles white	N/A
NUTER ANUT	Maximum stopping distance from the point of activation (m)	at start with	N/A
let stet	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements	in which which and all	N/A
WALTER S	Mechanical system subjected to 100 000 cycles of operation	t milet whilet while while	N/A
Set .	- Mechanical function check and visual inspection	i at at at	N/A
m. m.	- Cable assembly	untit water water water	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	stret maret antifet antifet of	N/A
8.5.4.3.1	Equipment safeguards	1 s s st st	⊘ <sup>_</sup> N/A
8.5.4.3.2	Instructional safeguards against moving parts :	its white white white wh	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):	white white white white	N/A
8.5.4.3.5	Compliance	at at set set	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
TE MALTE	Explosion test	tet set stat with a	N/A
8.5.5.3	Glass particles dimensions (mm)	- Mr. Mr. M.	N/A
8.6	Stability of equipment	et the when when wh	N/A
8.6.1	General	MS1: Mass of the unit	N/A
une an	Instructional safeguard	ifthe attended out to wait	N/A

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-29.	EN IEC 62368-	the second second	24 a
Clause	Requirement – Test	Result – Remark	Verdict
<u></u>	No and the second second	and white white	n m
8.6.2	Static stability	the state	N/A
8.6.2.2	Static stability test:	white white white wh	N/A
8.6.2.3	Downward force test	a to the th	N/A
8.6.3	Relocation stability	mere where when whe	N/A
let the	Wheels diameter (mm):	at at let get	_
	Tilt test	it water water water	N/A
8.6.4	Glass slide test	t let stat stat	N/A
8.6.5	Horizontal force test:	me me me	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	ster strer strer while	N/A
st at	Test 1, additional downwards force (N):	a man an an	N/A
water	Test 2, number of attachment points and test force (N)	et white white white	N/A
where a	Test 3 Nominal diameter (mm) and applied torque (Nm):	Mainet Mainet Wainet WA	N/A
8.8	Handles strength		́́ N/А
8.8.1	General	No handles	N/A
8.8.2	Handle strength test		N/A
	Number of handles:	and the me	
NUTER	Force applied (N):	at the state states	1 <sup>10</sup>
8.9	Wheels or casters attachment requirements	MUT MUT MUT	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	All AND AN AN	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	et set set we	N/A
8.10.3	Cart, stand or carrier loading test	and an an	N/A
NALLE S	Loading force applied (N):	the set and all a	N/A
8.10.4	Cart, stand or carrier impact test	2012 201 201 20	N/A
8.10.5	Mechanical stability	LITER ALLER WITTER WAL	N/A
1 1	Force applied (N):	Mr. Carlos A.	
8.10.6	Thermoplastic temperature stability	LIER MITCH MATCH MATT	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	1 A A	N/A

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Result – Remark	Verdict	
	$\frac{1}{2}$	

	Instructional Safeguard	N/A
8.11.3	Mechanical strength test	N/A
8.11.3.1	Downward force test, force (N) applied	N/A
8.11.3.2	Lateral push force test	N/A
8.11.3.3	Integrity of slide rail end stops	N/A
8.11.4	Compliance	N/A
8.12	Telescoping or rod antennas	N/A
m 1	Button/ball diameter (mm): No such parts	

9	THERMAL BURN INJURY		<i>∕</i> Ь
9.2	Thermal energy source classifications	- A A A	. ́Р
9.3	Touch temperature limits	ALTER WALL WALL WALL V	P of
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	SIEK PLS
9.3.2	Test method and compliance	See B.1.6 & B.2.3	, ₽¢
9.4	Safeguards against thermal energy sources	Inter white white white	<i>∕</i> n P
9.5	Requirements for safeguards	the second second	. Р
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P
9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	Tet the street out the south	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	uset outer outer sources	N/A
9.6.3	Test method and compliance:	She start	N/A

10	RADIATION		P
10.2	Radiation energy source classification	A STAR STAR OFFICE SOUTH	P
10.2.1	General classification	See below	P
men m	Lasers:	stret while white white	
JEX WAL	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	_
t stilt	Image projectors:	at the test of a	_
24	X-Ray:	white where where where	
STR.	Personal music player	at set set set	





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in me	m w t	EN IEC 62368-1	mur mur
Clause	Requirement – Test	Result – Remark	Verdict

10.3	Safeguards against laser radiation		N/A
mer m	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 P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	CIER P
MALIEK	Instructional safeguard provided for accessible radiation level needs to exceed	t what must must white	N/A
A	Risk group marking and location:	Mr. In the st	N/A
iner with	Information for safe operation and installation	white white white white	
10.4.2	Requirements for enclosures	an a the	N/A
in mer	UV radiation exposure:	LIEV MILE WALL WALL V	N/A
10.4.3	Instructional safeguard	i i at at	−N/A</td
10.5	Safeguards against X-radiation	ret unite while while wh	N/A
10.5.1	Requirements	No X-radiation	N/A
m a	Instructional safeguard for skilled persons	white white white white	
10.5.3	Maximum radiation (pA/kg)	At 11 5th	
10.6	Safeguards against acoustic energy sources	and the second	N/A
10.6.1	General	and the state	N/A
10.6.2	Classification	a man man	N/A
IN TE	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	t tet stet with m	N/A
	Unweighted RMS output voltage (mV):	the me in	N/A
UNLIE M	Digital output signal (dBFS)	THE STREE NUTER WITH	N/A
10.6.3	Requirements for dose-based systems	when the second	N/A
10.6.3.1	General requirements	LIFE ALTER MUSE WALTE	N/A
10.6.3.2	Dose-based warning and automatic decrease	s st at	N/A
10.6.3.3	Exposure-based warning and requirements	It white white white w	N/A
1th	30 s integrated exposure level (MEL30)	a state	N/A
me a	Warning for MEL ≥ 100 dB(A)	white white white white	N/A
10.6.4	Measurement methods	1 at at at	N/A
10.6.5	Protection of persons	white white white white	N/A
set set	Instructional safeguards	at at set set	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	The way way way at	N/A
10.6.6.1	Corded listening devices with analogue input	et intre anti whit wh	N/A
. Att	Listening device input voltage (mV):	at at at at	N/A
10.6.6.2	Corded listening devices with digital input	WITE MALL WALL WALL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
structure		- NUTER WITE WALTER WALT SUNT	

.it	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):		N/A
10.6.6.3	Cordless listening devices	white white white white	_/N/A _/
dt i	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	m t at at	N/A

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Jet P
B.1	General	er nut an m. w	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	mur mur mur mur	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	NINC P
LIEK WALT	Audio Amplifiers and equipment with audio amplifiers:	and white white white	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	Ø P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	and the se	Р
B.3.1	General	(See appended table B.3)	P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
1. 24	Instructional safeguard		N/A
В.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	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	N <sup>N</sup> P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions	we we we we	Р
B.4.1	General	at that what what a	P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	P
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	J <sup>er</sup> P <sub>s</sub>
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A



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0	EN IEC 62368-	2. 10. 10. 2.	
Clause	Requirement – Test	Result – Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	on'P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	at the set of	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus:	at the street with	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test	The off of the outer	N/A
C.2.4	Xenon-arc light-exposure test	We we we	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	M. W	N/A
D.2	Antenna interface test generator	white milet white white	N/A
D.3	Electronic pulse generator	we we at at	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1 🧹	Electrical energy source classification for audi	o signals	_⊘-N/A
m	Maximum non-clipped output power (W):	I WALTE WALT WAL W	<u> </u>
JEK	Rated load impedance (Ω):	a at at at a	< –
an i	Open-circuit output voltage (V):	white white white white	
NUTER IN	Instructional safeguard	let tet stet ste	_
E.2	Audio amplifier normal operating conditions		N/A
The WALL	Audio signal source type:	tet stet stet whet	_
a st	Audio output power (W):	r. Mr. 201 m	_
MALA	Audio output voltage (V):	et with with which all	s
d+	Rated load impedance (Ω):	w w	
where a	Requirements for temperature measurement	THE ALTE MALE MAL	N/A



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- 2m	A A A	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	"ГР
F.1	General	tet stet steet miles	P
+ 0	Language:	English	
F.2	Letter symbols and graphical symbols	TEX ALTER MITE WATE WA	R
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	S 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.	UNIP <sup>T</sup>
F.3	Equipment markings	NET WALT WAT WAT I	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	Ρ
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	Р
F.3.3	Equipment rating markings	See below for details.	S Pr
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	P
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	P
F.3.3.4	Rated voltage:	See copy of marking plate.	W P
F.3.3.5	Rated frequency:	DC supply	P
F.3.3.6	Rated current or rated power:	See copy of marking plate.	P
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	⊘ <sup>_</sup> N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	the state of	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	water water water water	N/A
F.3.5.2	Switch position identification marking	INTER INTER MALL WALL	N/A
F.3.5.3	Replacement fuse identification and rating markings	Tet stret stret whitet at	N/A
t at	Instructional safeguards for neutral fuse	Nº SP	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	atter oute south work	



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Clause	Requirement – Test	Result – Remark	Verdict
w.	M W T	Et alle and and and	- m
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	me me me	N/A
F.3.6.1.1	Protective earthing conductor terminal	Tet ster street miter	N/A
F.3.6.1.2	Protective bonding conductor terminals	he who we want	N/A
F.3.6.2	Equipment class marking:	let with all the mark of	N/A
F.3.6.3	Functional earthing terminal marking:	Mr. In	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	Jun-
F.3.8	External power supply output marking:	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P. S.
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	while while where whe	P
STER IN	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	antit wat wat and	N/A
a ma	c) Instructions for installation and interconnection	NUTE MALTE WALL WALL	N/A
EK WALTER	d) Equipment intended for use only in restricted access area	let stret stret water an	N/A
. At	e) Equipment intended to be fastened in place	and the state	N/A
mer m	f) Instructions for audio equipment terminals	milet anite antit wat	N/A
dt i	g) Protective earthing used as a safeguard	s it it it	N/A
int un	h) Protective conductor current exceeding ES2 limits	WALTER WALTE WALT WALT	N/A
in when	i) Graphic symbols used on equipment	aret whet when white a	N/A
* white	j) Permanently connected equipment not provided with all-pole mains switch	at the set with a	N/A
.tt	k) Replaceable components or modules providing safeguard function	with with with with	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
- Mr.	I) Equipment containing insulating liquid	Well with white	N/A
and the st	m) Installation instructions for outdoor equipment	At 1th 5th	N/A
F.5	Instructional safeguards	with sint with	N/A
G.	COMPONENTS	a de de	P
G.1	Switches	6. <del>.</del> .	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.2 G.1.3	Test method and compliance	t the state	N/A
G.1.5	Relays	Mr m w	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.1	Overload test		N/A
G.2.2	Relay controlling connectors supplying power to	LIEL UNITED WALTER WAL	N/A
5.2.5 5- 50	other equipment	a a at at	
G.2.4	Test method and compliance	to white white white	N/A
G.3	Protective devices	e at let stat	N/A
G.3.1	Thermal cut-offs	No such component	N/A
neter whi	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	at white w	N/A
NALTE WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The state with a state	N/A
G.3.1.2	Test method and compliance	The second second	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	Tet wet with	N/A
4	b) Thermal links tested as part of the equipment	Mr. M. M.	N/A
G.3.2.2	Test method and compliance	ster ster when wh	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	- Tet Stet with	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	when we we	N/A
G.3.5.2	Single faults conditions:	white white where we	N/A
G.4 5	Connectors	to the tot of	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	at set set set	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	we we with	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

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	and the set	N/A
G.5.2	Endurance test	street mine while whi	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	LE INTE WATE WATE	N/A
- 5 <sup>44</sup>	Test time (days per cycle):	e at at at	
211 1	Test temperature (°C):	white white white	m
G.5.2.3	Wound components supplied from the mains	at at at	N/A
G.5.2.4	No insulation breakdown	where where we we	N/A
G.5.3	Transformers	at the set of	N/A
G.5.3.1	Compliance method:	the man me	N/A
anti-	Position	et the state state	N/A
	Method of protection	me me m	N/A
G.5.3.2	Insulation	THE STEEL MITER	N/A
de la	Protection from displacement of windings:	W. W. A.	
G.5.3.3	Transformer overload tests	white white wh	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures	LIE MLIE WALL WALL	N/A
G.5.3.3.3	Winding temperatures - alternative test method	i s s st	N/A
G.5.3.4	Transformers using FIW	white white white	N/A
G.5.3.4.1	General	the state	N/A
the ch	FIW wire nominal diameter:	white white when w	_
G.5.3.4.2	Transformers with basic insulation only	at at at 5	́ N/А
G.5.3.4.3	Transformers with double insulation or reinforced insulation	net when when when	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	the water water water	N/A
G.5.3.4.5	Thermal cycling test and compliance	ALTER MATE MATE	м <sup>2</sup> _ N/А
G.5.3.4.6	Partial discharge test	in it	N/A
G.5.3.4.7	Routine test	MUTER MALTER WALTE WA	N/A
G.5.4	Motors	No motors used.	<u>الم الم الم الم الم الم الم الم الم الم </u>
G.5.4.1	General requirements	LIER WALT WALT WALT	N/A
G.5.4.2	Motor overload test conditions	s at at at	N/A
G.5.4.3	Running overload test	NINTE WALL WAL	N/A
G.5.4.4.2	Locked-rotor overload test	s at at	N/A



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~	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
201 1	Test duration (days)	the super super	-m -m	
G.5.4.5	Running overload test for DC motors	at set set		
G.5.4.5.2	Tested in the unit	super store way of	N/A	
G.5.4.5.2	Alternative method	and and we want	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	wr. an m m	N/A	
G.5.4.6.2	Tested in the unit	the state state of	N/A	
9.5.4.0.2	Maximum Temperature	Mr. Mr. m.	N/A	
G.5.4.6.3	Alternative method	t the wife wife	N/A	
G.5.4.7		Mr In W	N/A	
G.5.4.7 G.5.4.8	Motors with capacitors	ALL MALER AND A	N. S.	
10 1	Three-phase motors Series motors	all an	N/A	
G.5.4.9		still internation	N/A	
	Operating voltage:			
G.6	Wire Insulation	le de la sur la sur	N/A	
G.6.1	General	Only ES1 existed	N/A	
G.6.2	Enamelled winding wire insulation	white white white	N/A	
G.7	Mains supply cords		N/A	
G.7.1	General requirements	No such component	N/A	
at set	Туре:		* -	
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):	LIE WALL WALL WALL	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	t with mitter white	N/A	
G.7.3.2	Cord strain relief	Mr. In I	N/A	
G.7.3.2.1	Requirements	allet inflet white a	N/A	
18 1	Strain relief test force (N)	with the second	N/A	
G.7.3.2.2	Strain relief mechanism failure	NUTER INUTE WALT WAT	N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	i s s h	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	ite white white white	N/A	
G.7.4	Cord Entry	the state	N/A	
G.7.5	Non-detachable cord bend protection	WALL WALL WALL	N/A	
G.7.5.1	Requirements	at at at	N/A	
G.7.5.2	Test method and compliance	White white white wi	N/A	
JEK WALTE	Overall diameter or minor overall dimension, <i>D</i> (mm)	and mark mark whi	-	
t st	Radius of curvature after test (mm):	i i it it	_	
G.7.6	Supply wiring space	and white white	Ň/A	
G.7.6.1	General requirements	1 A A	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict	
Maria	N N THE ALL ALL ALL AND	Et MUT MUT MUT M	-101-	
G.7.6.2	Stranded wire	the state of the state	N/A	
G.7.6.2.1	Requirements	mult mult wat wat	_√N/A	
G.7.6.2.2	Test with 8 mm strand	the second second	N/A	
G.8	Varistors	mite waite waite wat	s <sup>on</sup> N/A <sup>®</sup>	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	The south water water w	N/A	
G.8.2.1	General	i a to the c	N/A	
G.8.2.2	Varistor overload test	white white white white	N/A	
G.8.2.3	Temporary overvoltage test	at at set se	N/A	
G.9	Integrated circuit (IC) current limiters	Matte Mate Mate Mit	N/A	
G.9.1	Requirements	No such component	N/A	
	IC limiter output current (max. 5A):	the man me		
A INLIE	Manufacturers' defined drift:	at let stat stat is		
G.9.2	Test Program	M. M. M.	N/A	
G.9.3	Compliance	Tet wet with and	N/A	
G.10	Resistors	Mar Mar and A	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning		N/A	
G.10.3	Resistor test	The alive water water of	N/A	
G.10.4	Voltage surge test	i i it it	⊘⊢ N/A<	
G.10.5	Impulse test	and and and and and	N/A	
G.10.6	Overload test		N/A	
G.11	Capacitors and RC units	INTER WATE WATE WATE	N/A	
G.11.1 🚿	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	NUTER WALL WALL WALL	N/A	
G.11.3	Rules for selecting capacitors	1 of the st	S <sup>™</sup> N/AS	
G.12	Optocouplers	white white white wi	N/A	
WALTER N	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
St. S	Type test voltage V <sub>ini,a</sub> :	s at at at		
ter aler	Routine test voltage, V <sub>ini, b</sub> :	until white white white		
G.13	Printed boards	it at at at	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	
G.13.2	Uncoated printed boards	an an a	N/A	
G.13.3	Coated printed boards	the state state with	N/A	



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	EN IEC 62368-	<u></u>	
Clause	Requirement – Test	Result – Remark	Verdict
0.40.4	North Anna the state of the second	the water water war	
G.13.4	Insulation between conductors on the same inner surface	at let let	N/A
G.13.5	Insulation between conductors on different surfaces	which which which is	N/A
240	Distance through insulation	inter when whe wh	N/A
et ste	Number of insulation layers (pcs)	at at at a	et
G.13.6	Tests on coated printed boards	12 MUL AND AND	N/A
G.13.6.1	Sample preparation and preliminary inspection	at not set set	N/A
G.13.6.2	Test method and compliance	me me m	N/A
G.14	Coating on components terminals	Tet stet street	N/A
G.14.1	Requirements	me me me	N/A
G.15	Pressurized liquid filled components	JEX STER MUTER AN	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	set when white white	N/A
G.15.2.1	Hydrostatic pressure test	the state	N/A
G.15.2.2	Creep resistance test	MITER MAILE MALL	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	Survey and	N/A
G.15.2.5	Thermal cycling test		<u>م</u> الم
G.15.2.6	Force test	the water water water	N/A
G.15.3	Compliance	t at at all	N/A
G.16	IC including capacitor discharge function (ICX)	which which which	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
the second	ICX with associated circuitry tested in equipment	all's all all a	N/A
LIET NALL	ICX tested separately	let get wet	N/A
G.16.2	Tests	but my my m	N/A
WALT	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	Tet white white white	ur -
WALTER N	Mains voltage that impulses to be superimposed on	INTER WATER WATER	where -
INLIEK WIN	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	whet which which a	NUTEK -
G.16.3	Capacitor discharge test:	an an area	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1 💉	General	and the second s	N/A
H.2	Method A	LEK MUTER MALTE MALTE	-N/A
H.3 🖉	Method B	and the second	N/A



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	EN IEC 62368-	2. M. 2. 2.	<u> </u>
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 at at at	_
H.3.1.2	Voltage (V):	min white white white	
H.3.1.3	Cadence; time (s) and voltage (V):		
H.3.1.4	Single fault current (mA):	me me me	_
H.3.2	Tripping device and monitoring voltage	t wet with with a	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	at let set an	N/A
H.3.2.2	Tripping device	white white white white	N/A
H.3.2.3	Monitoring voltage (V):	ret ster ster auter	N/A
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED	N/A
J.1	General	it want wat wat w	N/A
NUTER	Winding wire insulation:	at the state of	ś —
20. 0	Solid round winding wire, diameter (mm):	white white all all	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> ):	and white white	N/A
J.2/J.3	Tests and Manufacturing	the set	JIN -
К	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
JEt.	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	at at the set	N/A
K.4	Interlock safeguard override	inter white white white	N/A
K.5 🛒	Fail-safe	at all the set states	N/A
K.5.1	Under single fault condition	i mi mi m	N/A
K.6	Mechanically operated safety interlocks	t set set ster ster in	N/A
K.6.1	Endurance requirement	MULT AND ANY ANY	N/A
K.6.2	Test method and compliance	Tet sitet allet aut	N/A
K.7	Interlock circuit isolation	Mr. Mr. m. st	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	TEX WAITER WAITER WAITE	N/A
WALTER	In circuit connected to mains, separation distance for contact gaps (mm)	at white white white al	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	stret milet milet whi	N/A



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Clause	Desiving and Test	Desuit Demeri	Verdiet
Clause	Requirement – Test	Result – Remark	Verdict
NLIEK	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):	mer mer mer in	N/A
K.7.3	Endurance test	tet stet stet with	N/A
K.7.4	Electric strength test	her and the second	N/A
L	DISCONNECT DEVICES		N/A
L.1 🦽	General requirements	an an	N/A
L.2	Permanently connected equipment	t aller while while whi	N/A
L.3	Parts that remain energized	Shi Lat A	N/A
L.4 🛷	Single-phase equipment	white white white white	_√ <sup>∩</sup> N/A
L.5	Three-phase equipment	and at the	N/A
L.6	Switches as disconnect devices	LIEL WALT WALL WALL	N/A
L.7 🦪	Plugs as disconnect devices	s s at at	N/A
L.8	Multiple power sources	the white white white wh	N/A
Set	Instructional safeguard:	at at at 5	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	EIR PROTECTION CIRCUITS	N/A
M.1	General requirements	the state state	N/A
M.2	Safety of batteries and their cells	s you su	N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	N/A
M.3	Protection circuits for batteries provided within the equipment	at martet whitet whitet whi	N/A
M.3.1	Requirements	s share the	N/A
M.3.2	Test method	mitter white white white	<i>⊲</i> ∕ <sup>™</sup> N/A
LIFEK WAY	Overcharging of a rechargeable battery	(See appended table Annex M)	N/A
et mure	Excessive discharging	(See appended table Annex M)	N/A
JEK	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
SUL S	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	N/A
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	N/A
M.4.1	General	at at at at	N/A



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<u></u>			N
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	N/A
M.4.2.1	Requirements	t at lat set is	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	N/A
M.4.3	Fire enclosure	V-0 fire enclosure used	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	whe whe we we	N/A
M.4.4.2	Preparation and procedure for the drop test	the write white where y	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	N/A
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	N/A
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying	git whit white when w	Р
M.5.1	Requirement	No bare conductive terminal used	N/A
M.5.2	Test method and compliance	i at at al	N/A
M.6 🔊	Safeguards against short-circuits	white white white white	√ <sup>™</sup> N/A
M.6.1	External and internal faults	at at let let	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	N/A
M.7	Risk of explosion from lead acid and NiCd batte	eries	⇒Ñ/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
A 10	Calculated hydrogen generation rate:	and the second second	N/A
M.7.2	Test method and compliance	THE ALTER WITH WALTER	N/A
t st	Minimum air flow rate, Q (m <sup>3</sup> /h)	w w at	N/A
M.7.3	Ventilation tests	at mitter white white wh	N/A
M.7.3.1	General	in the state	N/A
M.7.3.2	Ventilation test – alternative 1	ALTER MUTE MALT MALT	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
20	Hydrogen gas concentration (%):	the mer me m	N/A	
M.7.3.3	Ventilation test – alternative 2	at the set of	N/A	
101.7.5.5	Obtained hydrogen generation rate		N/A	
M.7.3.4	Ventilation test – alternative 3	Alt 5th State	N/A	
11.7.3.4	Hydrogen gas concentration (%):	int when we we	N/A	
M.7.4	Marking:		N/A	
M.8			N/A	
IVI.O	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte			
M.8.1	General	when the second second	N/A	
M.8.2	Test method	still out on the south water	N/A	
M.8.2.1	General	and the state	N/A	
M.8.2.2	Estimation of hypothetical volume V <sub>z</sub> (m <sup>3</sup> /s):	LITER MALTER MALLE WALL	1 _ r	
M.8.2.3	Correction factors:	a start at	1 - J	
M.8.2.4	Calculation of distance <i>d</i> (mm):	NULL WALL WALL WALL		
М.9	Preventing electrolyte spillage		N/A	
M.9.1	Protection from electrolyte spillage	white white white with	N/A	
M.9.2	Tray for preventing electrolyte spillage	at the state	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	and the set	N/A	
24	Instructional safeguard:	and which we are a	N/A	
N Ser	ELECTROCHEMICAL POTENTIALS		N/A	
- Suc.	Material(s) used:	which which which will		
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A	
	Value of <i>X</i> (mm):	which which will will		
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		P	
P.1	General	See below	Р	
P.2	Safeguards against entry or consequences of	entry of a foreign object	P	
P.2.1	General	No. M. D. Z.	P.	
P.2.2	Safeguards against entry of a foreign object	- JER NITE MITCH WAT	P	
st	Location and Dimensions (mm):	No opening.		
P.2.3	Safeguards against the consequences of entry of a foreign object	WAITER WALTER WALTER WALT	N/A	
P.2.3.1	Safeguard requirements	Tet whet whet white	N/A	
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	at the tat tat	N/A	
	Transportable equipment with metalized plastic parts	which will will will	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict	
P.2.3.2		E white white white wh		
	Consequence of entry test		N/A N/A	
P.3 3		Safeguards against spillage of internal liquids		
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	mer which which which	N/A	
P.3.3	Spillage safeguards	at at at	N/A	
P.3.4	Compliance	in which which when we	N/A	
P.4	Metallized coatings and adhesives securing pa	rts	N/A	
P.4.1	General	No such construction.	N/A	
P.4.2	Tests	at let set se	N/A	
h. A.	Conditioning, T <sub>C</sub> (°C):	white white some some		
	Duration (weeks):	set set stat with	NUTE-	
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		Р	
Q.1	Limited power sources	See appended table Annex Q.1	, P	
Q.1.1	Requirements	. at let set is	Р	
In a	a) Inherently limited output	white white white white	N/A	
NITER IN	b) Impedance limited output	at the stee	P	
	c) Regulating network limited output	- s sh sh	N/A	
Ser Intre	d) Overcurrent protective device limited output	Alt Alt Alt	N/A	
	e) IC current limiter complying with G.9	me in in	N/A	
Q.1.2	Test method and compliance	See below	P	
LIEK .	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	P	
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A	
~ 2h	Maximum output current (A):	NUT WALL WALL WALL	N/A	
et	Current limiting method:	s at at at	5 <sup>65</sup>	
R	LIMITED SHORT CIRCUIT TEST	in the she was a	N/A	
R.1	General	No such consideration.	N/A	
R.2	Test setup	MILL MILL MILL MILL	N/A	
STE IN	Overcurrent protective device for test	at the set se	UNITE .	
R.3	Test method	Mut mut mur mur	N/A	
IL MAR	Cord/cable used for test	it get get get	N	
R.4	Compliance	the man and the	N/A	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	et the the state	N/A	
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
m	M N S A A A	Et white white whi	mr mr
đ	Samples, material:	the state	1
me u	Wall thickness (mm):	MUTER MALTE MALT.	mer m
det is	Conditioning (°C)	a at at	the state
nt sun St se	Test flame according to IEC 60695-11-5 with conditions as set out	MITE WALT WALL W	N/A
	- Material not consumed completely	ret miret white wh	N/A
- 10	- Material extinguishes within 30s		N/A
mur.	- No burning of layer or wrapping tissue	t intre- white white	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
ne m	Samples, material:	White white white	me m
10 5	Wall thickness (mm):	a at at	1th 5th-
24	Conditioning (°C)	it's white white w	
S.3	Flammability test for the bottom of a fire enclosure		N/A
S.3.1	Mounting of samples	while while white	N/A
S.3.2	Test method and compliance	at at all	N/A
- <u> </u>	Mounting of samples	MULT MULT WIT	
NUTER NN	Wall thickness (mm):	Lat Autor	MITE MITE.
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	after white white wh	N/A
m	Samples, material:	NUTE WILL WITH	Mr m
Str.	Wall thickness (mm):	A A A	
the ci	Conditioning (°C)	White White White	10
T <sup>er</sup>	MECHANICAL STRENGTH TESTS	at at at	N/A
T.1	General	INCE WILL WILL W	N/A
T.2	Steady force test, 10 N:	at the set is	N/A
Т.3	Steady force test, 30 N	me me m	N/A
T.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N	me me in	N/A
T.6	Enclosure impact test	LIEK LIEK MITCH	N/A
A	Fall test	Wes the con	N/A
LTE WALT	Swing test	LIER NITER WHITE W	N/A
T.7	Drop test:	the law of	
T.8	Stress relief test:	et intret intre inte	N/A
1.0	011633 161161 1631	10 V.	IN/A

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2 m	so i t t	EN IEC 62368-1	an in
Clause	Requirement – Test	Result – Remark	Verdict

T.10	Glass fragmentation test		N/A
mer 1	Number of particles counted:	No such glass	⊲∜Ñ/A
T.11	Test for telescoping or rod antennas	t at at at	N/A
in wi	Torque value (Nm):	No such antennas provided within the equipment.	N/A
υ	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General General		N/A
NIEK .	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen	set set set allet	N/A
v	DETERMINATION OF ACCESSIBLE PARTS	nt whe when we a	N/A
۷.1 <u>م</u>	Accessible parts of equipment		N/A
V.1.1	General	man me me	N/A
V.1.2	Surfaces and openings tested with jointed test probes	WAITER WAITER WAITER WAITE	N/A
V.1.3	Openings tested with straight unjointed test probes	at the state	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	- 2 Mr. In	N/A
V.1.5	Slot openings tested with wedge probe	the star state with a	N/A
V.1.6	Terminals tested with rigid test wire	man man	N/A
V.2	Accessible part criterion		N/A
X SULLING S	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
det .	Clearance:	s at at let	N/A
<b>Ý</b> 🛷	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1 🟑	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	white white where we	N/A
Y.3	Resistance to corrosion	t at the the	N/A
Y.3	Resistance to corrosion	Resistance to corrosion	
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	INTER MATTER WATER WATER	N/A
Y.3.2	Test apparatus	it at at at	
Y.3.3	Water – saturated sulphur dioxide atmosphere	the white white white a	N/A
Y.3.4	Test procedure	at at let bet a	N/A
Y.3.5	Compliance	mer me me m	N/A
Y.4	Gaskets	A St St St	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
she	M. M. S. S. S. S.	the other other water	mr mr	
Y.4.1	General	Str. St. At	N/A	
Y.4.2	Gasket tests	ALTER INCIDE MALTE	N/A	
Y.4.3	Tensile strength and elongation tests	su st st	N/A	
r. m	Alternative test methods:	NUTER INTE MALL M	N/A	
Y.4.4	Compression test	a stat	N/A	
Y.4.5	Oil resistance	TENNIT WALT WA	N/A	
Y.4.6	Securing means	L A A A	N/A	
Y.5	Protection of equipment within an outdoor enclo	osure di di	N/A	
Y.5.1	General	at at at	N/A	
Y.5.2	Protection from moisture	white white white	N/A	
LIEK MET	Relevant tests of IEC 60529 or Y.5.3	at at at	N/A	
Y.5.3	Water spray test	the man man an	N/A	
Y.5.4	Protection from plants and vermin	of the set is	N/A	
Y.5.5	Protection from excessive dust	Mr. M. M.	N/A	
Y.5.5.1	General	THE STAR STAR	N/A	
Y.5.5.2	IP5X equipment	Mr. M. M.	N/A	
Y.5.5.3	IP6X equipment	At A MAR	N/A	
Y.6	Mechanical strength of enclosures		N/A	
Y.6.1	General	Iter with white and	N/A	
Y.6.2 🖈	Impact test:	20. 20. 0	N/A	



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Clause

Requirement - Test

Result – Remark

1- 1

Verdict

	ATTACHMENT TO TEST R IEC 62368-1	EPORT	
(Audio	EUROPEAN GROUP DIFFERENCES AND N o/video, information and communication technology e		ents)
Difference	es according to: EN IEC 62368-1:2020+A1	1:2020	*
	nt Form No: EU_GD_IEC62368_1E nt Originator: UL(Demko)	Let while while while while	wini NITE
Master At	tachment: 2021-02-04		
	© 2021 IEC System for Conformity Testing and Co Geneva, Switzerland. All rights reserved.	ertification of Electrical Equipme	ent
and and	CENELEC COMMON MODIFICATIONS (EN)	when white white white wh	Р
WALTER W	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368- Clauses, subclauses, notes, tables, figures and an	bers in that column, except for 1:2018.	
de la	those in IEC 62368-1:2018 are prefixed "Z".		st
ret suntre	<ul> <li>Add the following annexes:</li> <li>Annex ZA (normative)Normative references to interr corresponding European publications</li> <li>Annex ZB (normative)Special national conditions</li> <li>Annex ZC (informative)A-deviations</li> <li>Annex ZD (informative)IEC and CENELEC code destinational conditions</li> </ul>	and the set the set	P.
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	efinitions:	N/A
3.3.19.1	momentary exposure level, MELmetric for estimating 1 s sound exposure level fromthe HD 483-1 S2 test signal applied to bothchannels, 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 additionalinformation.	Not such equipment	N/A
3.3.19.3	sound exposure, E	NUTER UNITED WALTER WALTER	N/A
	A-weighted sound pressure ( <i>p</i> ) squared and integrated over a stated period of time, <i>T</i> Note 1 to entry: The SI unit is $Pa^2 s$ .	Tek waitek waitek waitek wai	
	$E = \int_{0}^{0} p(t)^2 dt$	ret ret unt with	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
3.3.19.4	<b>sound exposure level, SEL</b> logarithmic measure of sound exposure relative to a reference value, <i>Eo</i> , typically the 1 kHz threshold of hearing in humans.	while while while	N/A	
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	er white white white	A SUNTER SUNTE	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at set set	Tet Milet	
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 Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels.	Tet whitet whitet white	N/A	
WALL W	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.	WALTER WALTER WALTER	white white	
2	Modification to Clause 10		N/A	
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	ter the state suit	N/A	
10.6.1.1		Nat auch anvinment	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 <b>ordinary person</b> , that:	Not such equipment	N/A	
	<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 earphones that can be worn in or on or around the ears; and</li> <li>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</li> </ul>	A MALIER MALIER MALIER	ante ante	
	continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	Tet anites anites and	we show we	
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	white white white	where where	



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20.	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
sur	NOTE A D. A. F. A.	and the south and the	mer me
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	i de st	et et
	NOTE 2 It is the intention of the Committee to allow the	THE STREE STREET	unit with
	alternative methods for now, but to only use the dose	an an an	1 1
	measurement method as given in 10.6.5 in future. Therefore,	A A A.	JER JIE
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	with which which will	
	Listoning dovisoo cold congrately shall comply	1 A A A	et et
	Listening devices sold separately shall comply with the requirements of 10.6.6.	for all in all and	ne me
	These requirements are valid for music or video	20. 20.	A- 10
	mode only.	- At Str. Str.	WITE MALL
	The requirements do not apply to:	white white white	20 20
	– professional equipment;	a at at	Set Set
	NOTE 3Professional equipment is equipment sold through	intre intre white y	In Mar
	special sales channels. All products sold through normal	a a a	the state
	electronics stores are considered not to be professional equipment.	let set ster a	in the second
	the state of the state of the	me me m	
	- hearing aid equipment and other devices for	1 1 1 A	+ .5 <sup>0+</sup> .5
	assistive listening; – the following type of analogue personal music	a until white white	m. m.
	players:	A A	14 14
	• long distance radio receiver (for example, a	THE STREE MULTE	white white
	multiband radio receiver or world band radio	When the real	4 4
	receiver, an AM radio receiver), and	at the	JET JE
	• cassette player/recorder;	a sure u	20. 3
	NOTE 4 This exemption has been allowed because this		et et .
	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	Ser all all all	no m
	extended to other technologies.	201. 20. 2.	1
	– a player while connected to an external amplifier	- It St St	mare mar
	that does not allow the user to walk around while	white white white	20 2.
	in use.	1 A At	At St
	For any investitation of a why define ad an interval of	white white white	NUT ON
	For equipment that is clearly designed or intended primarily for use by children, the limits of the	1. 2. A.	A A
	relevant toy standards may apply.	the set star a	The spectrum
	at at all the out on the	and the sur	
	The relevant requirements are given in	+ # # 5	the start of the start
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	white white white	In In
10.6.1.2	Non-ionizing radiation from radio frequencies	i i it	N/Á
5010111Z	in the range 0 to 300 GHz	NUTER INTER WATE	SULT SULT
	The amount of non-ionizing radiation is regulated	20 De 2	at at
	by European Council Recommendation	the set states	NUT INTE
	1999/519/EC of 12 July 1999 on the limitation of	In me me m	
	exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	to the state of	set set
	For intentional radiators, ICNIRP guidelines should	ster unite more way	- m - m
	be taken into account for Limiting Exposure to		
	Time-Varying Electric, Magnetic, and	t the the star	anti anti
	Electromagnetic Fields (up to 300 GHz). For hand-	me me m	
	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	at at at	15 50



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
		1 A A A	
10.6.2.1	<b>General</b> 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 $L_{Aeq, T}$ ,	Not such equipment	N/A
	measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	White white white white	nt whitek
	For music where the average sound pressure (long term $LAeq, \tau$ ) measured over the duration of	Tet whet whet white	t whitek wi
	the song is lower than the average produced by the programme simulation noise, measurements	Mr. Mr. M.	
	may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	whitek whitek whitek	NALI CANALI
MALL MALE	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,T}$ ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	uniter uniter uniter uniter	ex where whe
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	at let set a	N/A
	RS1 is a class 1 acoustic energy source that does	white white white with	20
	not exceed the following:	a to the the	t Set
	<ul> <li>for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening</li> </ul>	the white white white	-111 -111 
	device, or where the combination of player and listening device is known by other means such as	white white white	and an
	setting or automatic detection, the $LAeq, \tau$ acoustic output shall be $\leq 85$ dB when playing the fixed "programme simulation noise" described in EN	whitek whitek whitek w	NUTE WALTER
	50332-1. – for equipment provided with a standardized	The street minet and	et unifer y
	connector (for example, a 3,5 phone jack) that allows connection to a listening device for general	ret the tret the	- IN TEX NO
	use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	and white white	untitet untit
	- The RS1 limits will be updated for all devices as per 10.6.3.2.	at at at	JEK JJEK

Ster March	No.: WTF23D09201689Y Page 42 of 66 EN IEC 62368-1	with the state of	Note of
Clause	Requirement – Test	Result – Remark	Verdict
	Trequirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	at let let	P
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the $LAeq, \tau$ acoustic output shall be $\leq 100 \text{ dB}(A)$ 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 $\leq 150 \text{ mV}$ (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	and whe with whe with a set where wh	LEEK WALTER WAL
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that	which which white	N/A
10.6.3	exceeds RS2 limits.	when some a	NI/A
ter in	Classification of devices (new)	at a starter was	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new)	The Physics	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>τ</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.	and set and se	antic antic and
10.6.3.3	RS2 limits (new)	MITER MULTER MULTER	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player	thet whet milet	NITEK WALTER

	EN IEC 62368-1	area mare where where	
Clause	Requirement – Test	Result – Remark	Verdict
and the and	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN		
10.6.4	50332-1. Requirements for maximum sound exposure	LIT NATER WATER WAL	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
MALTER W	All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	WALTER WALTER WALTER	where white
10.6.4.2	Protection of persons	_AL 1 5th 3	N/A
Et white	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	in white white white	wn sek wn
	NOTE 1 Volume control is not considered a <b>safeguard</b> .	white white white	m. m.
	Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	and the and the and the and	The second
	The elements of the <b>instructional safeguard</b> shall be as follows:	water water water	united waited
	<ul> <li>– element 1a: the symbol 29, IEC 60417-6044 (2011-01)</li> <li>– element 2: "High sound pressure" or equivalent wording</li> </ul>	ALTER WALTER WALTER WA	at white wh
	<ul> <li>– element 3: "Hearing damage risk" or equivalent wording</li> <li>– element 4: "Do not listen at high volume levels for long periods." or equivalent wording</li> </ul>	Antifet antifet antifet	MILLER WALL

An equipment safeguard shall prevent exposure



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Clause	Requirement – Test	Result – Remark	Verdict
NALTER NA	<ul> <li>of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.</li> <li>The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.</li> <li>NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.</li> <li>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.</li> </ul>		ALTER ANTITAL
10.6.5	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	Willet whilet whilet	N/A
10.6.5	Requirements for dose-based systems           General requirements	Not such equipment	N/A N/A
ANNITER SUNITER	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this 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.	ANTIC WALLEY WALLEY	
solo so nifet son set sonife t ret	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	ANTER MALTER MALTER MAL	
10.6.5.2	<b>Dose-based warning and requirements</b> 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	WALTER WALTE WALTE	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
NALTER MAL	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.	and the annual annual and	NITER SUNITER
0.6.5.3	Exposure-based requirements	at let let be	N/A
	<ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>	AND THE AND	SULTER SULTER
	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.	White white white	which white
10.6.6	Requirements for listening devices (headphones	s, earphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB <i>L</i> Aeq 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 $\geq$ 75 mV.	at white white white	WIND BE WINTER
10.6.6.2	and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input	i i at at	N/A
	With any playing devices with digital input "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	WATER WATER WATER	NITES MALLES



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Clause	Requirement – Test	Result – Remark	Verdict	
stre	when we we have a set of	en alle all water	and an	
antifek av	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq, \tau$ acoustic output of the listening device shall be $\leq 100$ dB with an input signal of - 10 dBFS.	antifet water antifet	ANTER ANTER	
10.6.6.3	Cordless listening devices		N/A	
whitek whitek and whitek and whitek whitek whitek	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 $LAeq, \tau$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	white white white	WALL WALTER	
10.6.6.4	Measurement method	MUTE MALL MALL	N/A	
NUTEX -IN	Measurements shall be made in accordance with EN 50332-2 as applicable.	at state	LIEK NITEK AN	
3	Modification to the whole document		Р	



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Clause	R	equirement -	- Test	WALTE	R	esult – Rema	ark	Verdict
win.	n.	14		4	10 50 B	NITE M	in which whi	m
		<b>elete</b> all the st:	"country" note	s in the refe	rence docume	ent according	to the following	P
	12-	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1.tt
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	a raina
	بر ان	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	liet un
	.3	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	0- 5 <sup>0</sup>
	24	Table 13						- sur-
	1.5 E	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	WALTER
	et.	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	NUTEX N
	- 11	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	alex which
	un r	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	K NINETER
	ا فی	<del>10.6.1</del>	Note 3	F.3.3.6	Note 3	Y.4.1	Note	Tet
	4	Y.4.5	Note					5 12
					107 A.V		V 10 1	NIE W
4	M	lodification	to Clause 1					Р
1 mil	100 C	dd the follow	-	đ	1 1-	allet all	et untre uni	P
	el		e of certain substa ent is restricted w					t miret

Modification to 4.Z1

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- n.	EN IEC 62368-1	in and when when w	$h_{\mu} = -2h_{\mu}$
Clause	Requirement – Test	Result – Remark	Verdict
4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	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; 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 the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation shall be regarded as providing protection in accordance with the rating	ANTIPE ANTIPE ANTIPE ANTIPE	SUNTER SUN
-sur-	of the wall socket outlet.	the strand on the set	201
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4		No connection to external	N/A
. Jet	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.	circuit.	Jul
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



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	EN IEC 62368-1	Lite mile white white	
Clause	Requirement – Test	Result – Remark	Verdict
she	when we we are the state of the	er alter antie and	all all
10.5.1	<ul> <li>Add the following after the first paragraph:</li> <li>For RS 1 compliance is checked by measurement under the following conditions:</li> <li>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.</li> </ul>	antifet antifet antifet an	N/A
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	ANALEK WALTER WALTER WA	neret andret and
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	white white white	whites whites
	For RS1, the dose-rate shall not exceed 1 $\mu$ Sv/h taking account of the background level.	in which which whi	et an fet and
- Jul	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the state of the	- JIE MIE
9	Modification to G.7.1		N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	Whitek whitek whitek	N/A
10	Modification to Bibliography		Р

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20.		EN IEC 62368-1	in the way we a	1. de.
Clause	Requirement – Test	white white with we	Result – Remark	Verdict
M	m. m. m.	1 1 A A 5	and a street on the short of the	-m
A	Add the following no	tes for the standards indicated	I:	P
	IEC 60130-9	NOTE Harmonized as EN 601	20.0	MULT
	IEC 60269-2	NOTE Harmonized as HD 602		24.
		NOTE Harmonized as EN 603		100
	IEC 60309-1			100
	IEC 60364	NOTE some parts harmonized		2 2
	IEC 60601-2-4	NOTE Harmonized as EN 606		de la
	IEC 60664-5	NOTE Harmonized as EN 606		St. M
	IEC 61032: 1997	NOTE Harmonized as EN 610		
	IEC 61508-1	NOTE Harmonized as EN 615		0 ×
	JEC 61558-2-1	NOTE Harmonized as EN 615		- ALL
	IEC 61558-2-4	NOTE Harmonized as EN 615	i58-2-4.	
	IEC 61558-2-6	NOTE Harmonized as EN 615	58-2-6.	1
	V IEC 61643-1	NOTE Harmonized as EN 616	343-1.	John .
	IEC 61643-21	NOTE Harmonized as EN 616	43-21.	
	IEC 61643-311	NOTE Harmonized as EN 616	43-311.	15
	IEC 61643-321	NOTE Harmonized as EN 616	643-321.	6. 94
	IEC 61643-331	NOTE Harmonized as EN 616		
				St it
11	ADDITION OF ANNE	EXES		Р
ZB	ANNEX ZB. SPECIA	L NATIONAL CONDITIONS (	(EN)	Р
4.1.15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Norway and Sweden	Not directly connected to the	 
	<ul> <li>connection to other e if safety relies on con- if surge suppressors network terminals an marking stating that t connected to an earth The marking text in the be as follows:</li> <li>In <b>Denmark</b>: "Apparate stikkontakt med jord stikproppens jord."</li> <li>In <b>Finland</b>: "Laite on varustettuun pistoras In <b>Norway</b>: "Apparate stikkontakt"</li> </ul>			n rek
4.7.3	United Kingdom	at the whet whet	INTERNATION WATER WATER	N/A
JEK WALT		oclause the following is	ret united whited whited a	NIEK W
	complying with BS 13	rformed using a socket-outlet 363, and the plug part shall be /ant clauses of BS 1363. Also	et whitet whitet whitet wh	SIX JUNE

see Annex G.4.2 of this annex



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VV/VL

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	EN IEC 62368-1		<u></u>
Clause	Requirement – Test	Result – Remark	Verdict
an a	N N N N N N N N N N N N N N N N N N N	et and the method which and	the come
5.2.2.2	<b>Denmark</b> After the 2nd paragraph add the following:	No high touch current measured.	N/A
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.	LIEK MUTEK WALEK WALE	WALTER W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	white white white	11 <sup>10</sup> 11 <sup>10</sup>
	For separation of the telecommunication network from earth the following is applicable:	white white white wh	et untet
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Marte Main which which	JUNY S
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	to white white whe	with all
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	while which while whi	TEX WALTER
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in	and so white white	NOVIEK WON
	accordance with the compliance clause below and in addition	white white white of	it whit
	• 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),	united water watter water	W LIFE W
	and	at the tree work	ntrex mot
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	white white white	TEN WINLIEN
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	Mitet MAILEE MAILEE MAILE	X VINLIER V
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	tet wontet wonter wonte	WALL WALL
	<ul> <li>the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3</li> </ul>	white white white	et white



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20	EN IEC 62368-	in the way of	24. 24.
Clause	Requirement – Test	Result – Remark	Verdict
JUN-	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	white white white	Tet Tet
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	White white white white	ret whitet
et white	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.	Tex waiter waiter waite	t white the white
5.5.2.1	Norway	A Let Set Set	N/A
	After the 3rd paragraph the following is added:	water water water	sh st
nes un set si	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	milet while while w	et ret
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	at the wind winds	while whi
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	whitek whitek whitek	MITER WALTER
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	Ster white white white	yunin yunin
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WALTER WALTER WALTER W	ntit whit
5.6.4.2.1	Ireland and United Kingdom	at at at a	N/A
et wnitet	<ul> <li>After the indent for pluggable equipment type A, the following is added:</li> <li>– the protective current rating is taken to be 13</li> <li>A, this being the largest rating of fuse used in the mains plug.</li> </ul>	Let white white white	white whi
5.6.4.2.1	France	5th stree stree	JN/A
Marek we	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	When we we we we	at pet
5.6.5.1	To the second paragraph the following is added:	When which which which	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	antiet writet writet	SUNTEX SUNT



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			1 ( P. (
Clause	Requirement – Test	Result – Remark	Verdict
5.6.8	Norway	were were we	P
	To the end of the subclause the following is added: Equipment connected with an earthed mains plug	MALIER WALTER WALTER	NUTER WALTER
iet antires	is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	et tet tret tret with	et ani et an
5.7.6	Denmark	the main in	P
	To the end of the subclause the following is added:	winties white white	white white
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	white white white w	NUTER WALTER
5.7.6.2	Denmark	tet Jet Jet offer of	P
	To the end of the subclause the following is added:	t set ret set	+ whet wh
	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.	white white white	THE STEE
5.7.7.1	Norway and Sweden	Not such system.	• N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	iter white whitet white	WINTER WINT
	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.	untitet white white white	Inter an exercise
	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:	at whitek whitek white	A WALL BE WAL
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a	white whe whe	NUTEK INTEK
	connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create	at the the	Let IN TEX IN
	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,	et white white white	white white
	see EN 60728-11)"	JEEK STEK MITER	UNLIE WALTE
	NOTE In Norway, due to regulation for CATV-installations, and	the star store	



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0	EN IEC 62368-1		1 ( a wall a f
Clause	Requirement – Test	Result – Remark	Verdict
whitek wh	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.	WALL WALLS WALL AND	y ountrek
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	stret intret united watter	WALTER N
	<ul> <li>"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.</li> <li>For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."</li> </ul>	at white white white wh	NTEX WAS
NU WALTER	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 medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	ANTER ANTER ANTER ANTER ANTER	In creek un
3.5.4.2.3	<ul> <li>United Kingdom</li> <li>Add the following after the 2<sup>nd</sup> dash bullet in 3<sup>rd</sup> paragraph:</li> <li>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.</li> </ul>	No external circuits.	N/A
B.3.1 and B.4	Ireland and United Kingdom         The following is applicable:         To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A
G.4.2	<ul> <li>Denmark <ul> <li>To the end of the subclause the following is added:</li> <li>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.</li> <li>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against</li> </ul> </li> </ul>	Not directly connected to the mains	N/A



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6.

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- nu	EN IEC 62368-	The white white w	he du
Clause	Requirement – Test	Result – Remark	Verdict
WALTER W	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	et would would woll wo	yunitet
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	and white white and the	WALLEY W
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	whitek whitek whitek whi	IE WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	unt whitek whitek whitek	W JEK W
	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	The whitek whitek whitek wh	A SUNLIES
	Justification: Heavy Current Regulations, Section 6c	and an and the sources	WALTER V
G.4.2	United Kingdom To the end of the subclause the following is added:	Not directly connected to the mains	N/A
whitek white	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Whitek whitek whitek white	se would
G.7.1	United Kingdom	of the stat what a	N/A
	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.	and and and and an	er wouter
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et whitet whitet white wh	II would

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20.	EN IEC 62368-1	in the all all a	
Clause	Requirement – Test	Result – Remark	Verdict
G.7.1	Ireland           To the first paragraph the following is added:	which which which which	N/A
stret white	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	and and an and an and an	1.11111 W
G.7.2	Ireland and United Kingdom To the first paragraph the following is added:	white white white whe	N/A
ur vu tret out	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.	which which which which	
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)	is more mer and a	N/A
10.5.2	GermanyThe following requirement applies:For the operation of any cathode ray tube intended	No CRT within the equipment.	N/A
	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.	while white white white	NALTEX S
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Service white white	et white
antifet w	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	whitek whitek whitek whitek	WALTER.
ZD	IEC and CENELEC CODE DESIGNATIONS FOR I	FLEXIBLE CORDS (EN)	Р



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24.		IEC 62368-1	24 4
Clause	Requirement – Test	Result – Remark	Verdict

Type of flexible cord		esignations
	IEC	CENELE
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	HO3RT-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	ðu.	Τζε.
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз¦RV4-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
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2



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the mar	m m t	EN IEC 62368-1	n m
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy sourc	es		4 it	N/A
Supply	Location (e.g.	Test conditions		Parame	ters		ES Class
voltage	Voltage circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
et set	JER JER M	Normal	3VDC	14	SS	DC	ES3
	man an an	Abnormal		LIER HALFER	mart 1	n -m	sure
3VDC	Input circuit	Single fault – SC/OC	M 20	et set	I BA	et ret	MALIEK
	at the set	Abnormal	w m	m_ m			j.t.
	white white	Single fault – SC/OC	SEK ITEK	white whit	White	weiter w	in m

Supplementary information:

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

3) Test Conditions:

Normal -Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Worki	ng voltage measu	rement	<u></u>	N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
- s & A	Set Set a	LIT WALL W	en the	m m
- unit white white	n - m	* 75	et <del>s</del> et	LIER MITE JAILE WALT
Supplementary information:			•	·
the the the the	- 1º			5 N . 5 . N .

5.4.1.10.2	TABLE: Vicat soft	ening temperature of thermo	pla	stics	A NUTER A	N/A
Method			:	ISO 306 / B50	A. A.	
Object/ Par	t No./Material	Manufacturer/trademark		Thickness (mm)	T soften	ing (°C)
- 1	the set of	t outer water what a	N.	211 - 20 -	A	- At
Supplemen	tary information:					
	1 1 15	The only what whe		the second		, she

1. 10. 2.		And the the				24 - 24
5.4.1.10.3 TABL	E: Ball pressure test of	thermoplastics			. L.	N/A
Allowed impression	n diameter (mm)	:	≤ 2 m	milt nite on	in m	
Object/Part No./Ma	iterial Manufacturer/tr	ademark Thicknes	s (mm)	Test temperature (°C)	Imp diame	ression eter (mm)
, , , , , , , , , , , , , , , , , ,	the - set stet	mit was way	m	211 - 211		- 4
Supplementary info	ormation:					



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 Clause
 Requirement – Test
 Result – Remark

at a

20

Verdict

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance						N/A		
Clearance (cl) and creepage distance (cr) at/of/between:Up (V)Urms (V)Freq1) (kHz)Required cl (mm)Cl (mm)E.S.2) (V)Required cr (mm)						cr (mm)		
fer aller white white wh		-10		s - s	<del>,</del> the second	4	JICK- NIT	an and
Supplementary information:								

1) Only for frequency above 30 kHz

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

5.4.4.2	TABLE: Minimur	n distance through insu	lation	TER WALTE WAY	N/A N
Distance the (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
I. A	ret set	Tet outer- white w	men m		1- A
Supplement	tary information:				•

\*See also sub-clause 5.4.4.9

5.4.4.9	TABLE: Solid in	nsulation at	frequencies	>30 kHz 📣	r. sur	- m - m	N/A
Insulation I	material	E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
15th Mille	-12 - 110-				-	H Ster	The Mult
Supplemen	ntary information:						

5.4.9 TABLE: Electric strengt	h tests		N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	with white white where a	in the second	. A. A.
- which when when we are	the state state of	FER MUTER WALTE	min -m
Basic/supplementary:	ite white white all the	i i at	at at
- mi m m	the - the state with	- unit while y	m m.
Reinforced:	me me m	s st	the set
The all the second	Tet Jet street with	JALIE WALL WAS	m m
Routine Tests:	mer me me	st st st	t 5t 5
- when the state	Tet 15th Aller Miles a	1-27 Mars Mar	m - m
Supplementary information:			
20. 20. 4	at the the with the	in the star	In In

5.5.2.2 TABLE: Stored discharge on capacitors

N/A



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Clause	Require	ment – Test	wat we t	Result – Rem	ark	Verdict
Location	<u> </u>	Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class
5 <sup>44</sup> . 5 <sup>4</sup>	* INLIE	white white wi	Normal	*- <i>*</i>		
	. Alt	ster ster mit	Single fault: SC/ OC	Intit Junit.	out out	- 14 - 14 - 14 - 14

X-capacitors installed for testing are:

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

5.6.6 TABLE: Resistance of protective conductors and terminations							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
- min	mer mer mer		at the set	NUTER- MUTER	White White		
Suppleme	ntany information:						

Supplementary information:

E: Unearthed acces	ssible parts		500	NUTER .	
Operating and	Supply	F	Parameters		ES class
fault conditions Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)		
Normal	2 <u>m</u> n		A	d - 1	الله <del>ال</del>
Abnormal: overload	+ white whi	Tex would be would	in mill and	-10	
Single fault: SC/ OC	JIE MUR	- untret white	white white	with .	ur
	Operating and fault conditions Normal Abnormal: overload Single fault:	fault conditionsVoltage (V)NormalAbnormal: overloadSingle fault:	Operating and fault conditionsSupply Voltage (V)FVoltage (Vrms or Vpk)Voltage (Vrms or Vpk)NormalAbnormal: overloadSingle fault:	Operating and fault conditionsSupply Voltage (V)ParametersVoltage (V)Voltage (Vrms or Vpk)Current (Arms or Apk)NormalAbnormal: overloadSingle fault:	Operating and fault conditionsSupply Voltage (V)ParametersVoltage (V)Voltage (Vrms or Vpk)Current (Arms or Apk)Freq. (Hz)NormalAbnormal: overloadSingle fault:

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	arthed accessible conductive part						
Supply vo	Itage (V)	- me me	- when will we at the					
Phase(s)		[] Single Phase; [] Three	Phase: [ ] Delta [	] Wye				
Power Distribution System		[]TN []TT []IT						
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comment	Comment			
See and	white white white	The state	at the set	The Thirty	-dr			
Suppleme	entary Information:							

5.8	TABLE: Backfeed safeguard in battery backed up supplies						
Location Supply Operating and fault Tim				Time (s)	Open-circuit	Touch	ES Class



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Clause	Requirement – Test	Result – Remark	Verdict				

	voltage (V)	condition		voltage (V)	current (A)	
white white she	<u>~n</u>	· · ·	T.	Set - Set	INTE- INT	the the
Supplementary inform	mation:					
ath wat was	In in		the a	E.	JT NT	and an

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		
3V Input circu	iit Pin + to -	ren mar we	n n		5S	PS1		
Supplementar	y information:							

Abbreviation: SC= short circuit; OC= open circuit

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

\* Unit shutdown immediately, recoverable, no hazard.

0.2.0.1	2.3.1 TABLE: Determination of Arcing PIS						
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		ing PIS? es / No	
701. 24. A.		1 - 1 .5	iter intre innut	mr -m v		20.	

6.2.3.2 TABLE: Determination of resistive PIS					
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No	
All primary circuits/cor	nponents	et united white white white	when when the	Yes (declaration)	

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 pro	essure lamp	* Jet Jet a	NUTER MOUTE MA	N/As
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
the state	NUTE WALT W	5. 20 m	- 1 1		NITER-MITE
Supplement	ary information:				
.5 <sup>6</sup>	in and when	me with	a at the	the state	JIE MIE .

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

9.6	TABL	E: Temper	ers	N/A						
Supply volta	ge (V).				1 5	A SIL	INLIE M	in m		
Max. transm	it powe	er of transn	nitter (W)		2 m	-40 A	at a	d de		
		w/o receiver and direct contact		with receiver and direct contact		with receiver and at distance of 2 mm			with receiver and at distance of 5 mm	
Foreign obj	ects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Intre-	- Mr - Mr - Mr - Mr.			20-		st - 18			Je Mare	

5.4.1.4, TABLE: Temp 9.3, B.1.5, B.2.6	TABLE: Temperature measurements							
Supply voltage (V)	Supply voltage (V):					N. S.	_	
Ambient temperature during	25.0	2 - 2 m		L.E.				
Maximum measured tempe	f part/at:		Allowed T <sub>max</sub> (°C)					
Input wire	1912	26.8		- /	Jet - Je	80		
U4	N	26.1				130		
Y1 and an an			26.2			No. The	125	
Interior enclosure	Set .	LIER UN	26.1	10 - 1	n <u>-</u>		Ref.	
External enclosure	n n		25.9	5 <sup>10+</sup>	5 <sup>6</sup>	UNITE IN	77	
Ambient	SER NE	with	25.0				et tot	
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class	
the million which which	an.		a		4	55 - 56	and the second	

Supplementary information:

\* 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.

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

B.2.5	T	ABLE: Inp	out test	÷ .4	t stat		MUTE	white white white wi	P 🖑
U (V)	Hz	I (A)	l rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
3VDC	-	<u></u> 0.001	at a firm	un Crime	ur - 11	n - 1	n "	2*AAA	- 1
Supplem	entar	y informat	ion:		•				
		magaura	Lourrontun	dor rotod	veltere di	d not ov	aaad 110	% of the rated ourrent	1

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

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Verdict

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EIN	IEC.	023	00-1

Clause	Requirement – Test

Result – Remark

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B.3, B.4 TABLE: Abnormal operating and fault condition tests								
Ambient temperature T <sub>amb</sub> (°C) See below								
Power sourc	e for EUT: Man	ufacturer, mo	del/type, o	outputrati	ng :		A IT IT	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	
U4	SC	5VDC	7h	UNTEX.	0.	01,05	Unit normal working, no damaged, No hazard.	when

Supplementary information:

<sup>1)</sup> Supply by external DC source, <sup>2)</sup> Measured battery cell voltage and current.

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.

4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pr	otection circu	its for batteri	es provid	ed with	nin the eq	uipment	N/A
Is it possible	to install the	battery in a re	everse polarity	position?.	:	5	v. m.	4 _
				C	Charging	)		
Equipment S	pecification		Voltage (V)				Current (A)	
		mer mer	24. 4		*	et de	t with a	THE MUSE
				Battery	y specifi	cation		
		Non-recharge	eable batteries		F	Rechargea	ble batteries	
		Discharging	Unintentional	(	Chargin	g	Discharging	Reverse
Manufact	urer/type	current (A)	charging current (A)	Voltage	(V) C	urrent (A)	current (A)	charging current (A)
of the	JER NI	a mare wh	in men.	242 2			t st	Set Set
Note: The tes	sts of M.3.2 a	ire applicable o	only when abov	e appropr	iate dat	a is not av	ailable.	
Specified bat	tery tempera	ature (°C)	n n		:	+ #	. st	Ċ
Component No.	Fault condition	Charge/ discharge mo	ode time	Temp. (°C)	Curre (A)	nt Voltag (V)	<b>o</b>	
unter unter	art with with a second second				NUTER	ALL FRANCE	mar white	when when
Supplementa	iry informatio	n:	·			·		
			en circuit NL=			age; NS=	no spillage of	liquid; NE=
M42 1			ards for equi	mont	d-		ndon, lithium	n N/A

battery

A/A

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			de E	EN IEC 62368-	1.5°		
Clause	Requir	ement – Test	WALL WAL	m. n	Result – Remark Ver		
an	11 - 1	h. d.	a de		et alle a	an and an	m
Maximum	specified	charging voltag	ge (V)		.: 🔊 🖓	L A A	—
Maximum	specified	charging curre	nt (A)		.: Julit mult		_
Highest sp	ecified ch	narging tempera	ature (°C)	No. An	:	at at	
Lowest spe	ecified ch	arging tempera	ture (°C)			white white	
Battery		Operating		Measurement		Observa	ation
manufactu	manufacturer/type and fault condition		Charging voltage (V)	Charging current (A)	Temp. (°C)		
Lowest spe	ecified cha	arging temperat	ure: 10°C (Bat	tery (earbuds))	the start with	it while whit	Mrs .
UNLIEK UN	LIEK WAL	Normal	the watte	white white	inter and	MUTER NALITER	WALTER W
		Abnormal-	the second second		m m	t it	1 5
		Single fault	Jan al	et unifet	NUTER WALTER	WALLS WALLS	in in
Highest sp	ecified ch	arging tempera	ture: 45°C (Ba	ttery (charge ba	ase))	LIEX MUSE W	LIC WALL
NUTEX N	NUTEX NO	Normal	NUTER WALTE	white wh	with the	et stret with	at antifet
		Abnormal-	\$ <u>.</u>	STATE STATE	with with	- Inc. In	
		Single fault		JEK - JJEK		WALTER WALTER	mer m
Supplemer	ntary infor	mation:					
					V .N	11- 14 v	

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	nded for inte	erconnectio	n with build	ing wiring	(LPS)	N/A N
Output	Condition	Condition U <sub>oc</sub> (V) Time	<b>T</b> : ( )	l <sub>sc</sub> (A	A)	S (VA)	
Circuit	Condition		Time (s)	Meas.	Limit	Meas.	Limit
at at	the set see	WITE W	r. mr	m. n		A	1 1
	ny me m		at the	.5 <sup>64</sup> .5	er nure	where we	2 min
	Tet Jet Ster	NUTE WAL	m.	a a		de la	t set
	m m	L St	Set .	Jet NJe	Multer .	and and	mer 1
Supplement	ary Information:					<u> </u>	
	sircuit, OC = open circuit own immediately, recov		zard.	WALT V	ines su	t at	St. W.

	T.2, T.3, T.4, T.5	TABLE: S	teady force te	st	ALL MAY	L	survive survey and the N	N/A
1	Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	



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

dt d	et set	STER OF	A NUTE	m	nu n	10			- 14	-
white white	me	the second	1	A	Set S	et intre	MUTE	where	mer	4
at at	. Set	NUTER MUTER	MALT	mrs-	m. n.		4	A	At	
Supplementa	ry informati	on:								

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

Т.6, Т.9	TABLE: Imp	TABLE: Impact test										
Location/Pa	art Material	Thickness (mm)	Height (mm)	Observation								
MILLE MA	I mar 1	n m m	st	with the state with white white								
1 1	t st.	at the ste	when w	in the set								
ine where	Jun m	In In	4	et tet ster street when white white white								
Supplemen	tary informatio	n:										

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

T.7 TA	ABLE: Drop	test	N/A	
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
the star of			MLTE S	st and me
Tet Miller				the state of the state of the south
	t it	at set	MUTER MALL	main which will say and
Supplementary	/ information	:		
*Test was perfe	ormed on pro	oduct with each sou	irce listed in t	able 4 1 2

Т.8	TABLE: Stres	s relief test	A NUTER AN	NET WAL	m	me -	Mr	N/A
Location/Par	t Material	Thickness (mm)	Oven Temperatur e (°C)	peratur Duration	Observation			
with a	n m	The state	at al	- JIH	NUTER AN	TE WALT	me	m
Supplementa	ary information:							
*Test was pe	rformed on pro	duct with each sou	urce listed in t	able 4.1.2.	JE MUT	- MALA	m	m

X TABLE: Alternative method for determining minimum clearances distances N/A					
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)		
T is at at	ret out on on other	i when any and	the state of the s		
Supplementary information:			-		
1 15 15 1	et when while white	me m m	i i it		



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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>	
Enclosure	CHI MEI CORPORATION	PA-765A(+)	Min.V-1, 80°C, min.thickness: 1.5mm	UL 94	UL E56070	
PCB	Shenzhen Ying-seok Circuit Co Ltd	YS-02	V-0, 130°C	UL 94, UL 796	UL E475434	
Alternative	Interchangeable	Interchangeabl e	V-0, 130°C	UL 94, UL 796	UL	
Internal wire	Interchangeable	Interchangeabl e	Min. 18AWG, 85°C, VW-1		UL	

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



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Photo 2



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Photo 3



Photo 4



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Photo 5

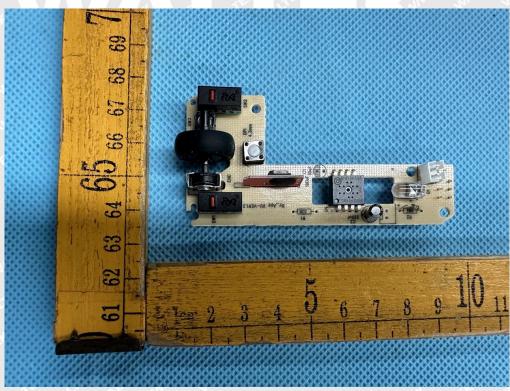


Photo 6



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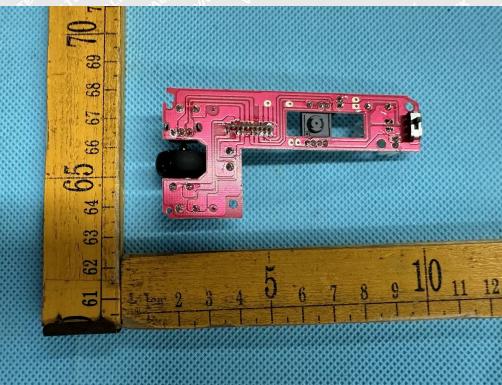


Photo 7

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