



# **TEST REPORT**

Reference No	, :	WTF23D10227451Y

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

Hong Kong

Manufacturer..... : 118144

Address.....: --

Product.....: ABS TWS earbuds

Model(s)..... : MO2206

Total pages .....: 67 pages and 3 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2023-11-07

**Date of Test**.....: 2023-11-07 to 2023-11-14

Date of Issue...... 2023-11-22

Test Result.....: Pass

### Remarks:

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

# Prepared By:

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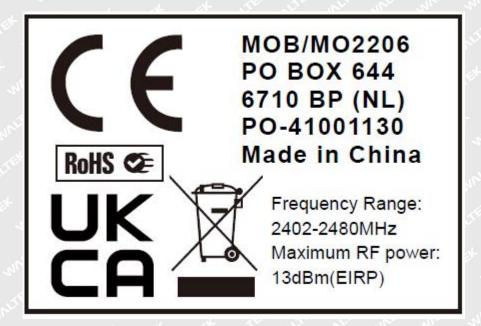
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Test item description	ABS TWS Ea	arbuds
Trademark	МОВ	
Model and/or type reference:	MO2206	
Rating(s):		1A ry: 3.7V, 30mAh c battery: 3.7V, 180mAh
Remark:	et et	CHIEF WILL WHILL WALL MALL WILL WILL
Whether parts of tests for the product I	nave been sub	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and la	b information:	
Test items:		
Lab information:	The state of	Mr. M. M.
Summary of testing:		t tot the the mate mate main and
Tests performed (name of test and to -EN IEC 62368-1: 2020+A11: 2020 The submitted samples were found to the requirements of above specification	comply with	Testing location:  No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
□ The product fulfils the requirements	of EN IEC 623	368-1:2020+A11:2020.
applicable limit according to the speciwithout applying the measurement un "accuracy method").	ne IEC standa cification in th ncertainty ("sir	rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
requirements apply)	MULLER MULL	red by the standard or client, or if national accreditation
OD-5014 for test equipment and applic IECEE.	calculated by cation of test m	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of n of measurement uncertainty principles and applying
the decision rule when reporting test measurement uncertainty for measur customer.	st results with rements is not	in IECEE scheme, noting that the reporting of the necessary unless required by the test standard or
Calculations leading to the reported verthe testing.	alues are on fi	le with the NCB and testing laboratory that conducted





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



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TEST ITEM PARTICULARS:	With any and any and the
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<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 III ☐ Not classified ☐
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)	☑ 0.033kg



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N/A
P (Pass)
F (Fail)
THE THE THE THE
See cover page.
See cover page.
LIES STEE WILL MALL MALL WALL WALL
pended to the report. the report. sed as the decimal separator.
arbuds or powered by rechargeable Li-ion Battery.
LIES WHITE WHITE WHITE WHITE WHITE WHITE
- t



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Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
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	PCB	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		
Class and Energy Source	Body Part (e.g., Skilled)	Safeguards		
(e.g. Ozone)		В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part	Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: 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	I		
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
RS2: Headset	Ordinary	Instructional safeguards	N/A	N/A



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		JRCE		

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

 $oxed{oxed}$  ES  $oxed{oxed}$  PS  $oxed{oxed}$  MS  $oxed{oxed}$  TS  $oxed{oxed}$  RS

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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46 3			1 1 1	
Un all		IEC 62368-1		
Clause	Requirement – Test	All all a	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JIN P
	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	MALT P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	THE THE STATE OF	N/A
4.4.3.3	Drop tests	u m. m. m.	N/A
4.4.3.4	Impact tests	of the steet with 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
ire. Aur	Glass impact test (1J)	LIER WILL AND MILL	N/A
et let	Push/pull test (10 N)	s s t	N/A
4.4.3.8	Thermoplastic material tests	With write while many wh	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E JULIE MILL MILL AUT	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	CLIER WILL WILL AND	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	FEK P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	N/N/PE



N/A

N/A

N/A

N/A

N/A

N/A N/A

Ρ

N/A

N/A

N/A

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Battery replacement test

30N force test with test probe

20N force test with test hook

**Component requirements** 

Disconnect Device

Switches and relays

Drop test

Impact test

Crush test

Compliance

IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Me	M. M. J.	ter with the this the	n 1/1/2	
WITEK	No harm by explosion during single fault conditions	(See Clause B.4)	et Pet	
4.6	Fixing of conductors	See below	N/A	
liter will	Fix conductors not to defeat a safeguard	TEX LIEK WHEN WITE	N/A	
A	Compliance is checked by test	in my my	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)	et outer muter white whi	N/A	
4.8	Equipment containing coin/button cell batteries	S THE SECOND	N/A	
4.8.1	General	No coin/button cell batteries used.	N/A	
4.8.2	Instructional safeguard	TEX STEX WITE WITE	N/A	
4.8.3	Battery compartment door/cover construction	1, 24, 24,	N/A	
WILL	Open torque test	Et aliet wife wall w	N/A	
4.8.4.2	Stress relief test	20, 2,	N/A	

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	Murran Murran Mar	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	14. 14. 14.	Р
5.3	Protection against electrical energy sources	- TER STER STER MIS	Р

Likelihood of fire or shock due to entry of conductive object

4.8.4.3

4.8.4.4

4.8.4.5

4.8.4.6

4.8.5

4.9

4.10

4.10.1

4.10.2



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01	IEC 62368-1	D 4 D 4	11/ 11/
Clause	Requirement – Test	Result – Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	The let the st	Par
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	They show they are	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	NITER 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
White of	Accessibility to outdoor equipment bare parts	t liet wife wife wh	N/A
5.3.2.2	Contact requirements	7/1 // //	N/A
iner win	Test with test probe from Annex V	alter while while while	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	an a state of	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIER MITE WALL MALL	N/A
5.3.2.3	Compliance	a start set	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at at the	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	et Jet ith	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	IF WILL MULL MULL	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	A WITER WITER WITER WI	N/A
5.4.1.5.3	Thermal cycling test	71 7	N/A
5.4.1.6	Insulation in transformers with varying dimensions	INLIER WALTE WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	and the set	N/A
5.4.1.8	Determination of working voltage	NITE WILL WILL WILL	N/A
5.4.1.9	Insulating surfaces	e at at let	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	murit mer me w	N/A
5.4.1.10.2	Vicat test	CALIER MALIE MALIE WAS	N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	WITE WALL WALL WALL	N/A
5.4.2.1	General requirements	L St. St. Set.	N/A
- WI-	Clearances in circuits connected to AC Mains, Alternative method	The Marie Marie Marie	N/A
5.4.2.2	Procedure 1 for determining clearance	ex niter white white wh	N/A
All P	Temporary overvoltage	70 St Ct C	e —
5.4.2.3	Procedure 2 for determining clearance	alter with with which	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
oladoo.	A Codemonate Cost	Troodic Tromany	100000
5.4.2.3.2.2	a.c. mains transient voltage	711 721	
5.4.2.3.2.3	d.c. mains transient voltage	SLIEF WITE WILLES	white -
5.4.2.3.2.4	External circuit transient voltage	24 27	- H
5.4.2.3.2.5	Transient voltage determined by measurement	WILL WALLE MALL M	LE _
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	TEX SLIEK WILL MAN	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t itek sitek site	N/A
5.4.2.6	Clearance measurement	24, 24, 25,	N/A
5.4.3	Creepage distances	LIER SLIER MILE	N/A
5.4.3.1	General	41. 41. 4	N/A
5.4.3.3	Material group	LIER WILL WILL WILL	17, 1
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation	ET WILL WALLE WALL	N/A
5.4.4.1	General requirements	A A A	N/A
5.4.4.2	Minimum distance through insulation	WILL MULL MULL	N/A
5.4.4.3	Insulating compound forming solid insulation	A A A	N/A
5.4.4.4	Solid insulation in semiconductor devices	The same of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	re mer mer me	N/A
5.4.4.6.1	General requirements	of the the	N/A
5.4.4.6.2	Separable thin sheet material	Mr. Mr. M.	N/A
antifer and	Number of layers (pcs)	THE LITTLE STEEL	N/A
5.4.4.6.3	Non-separable thin sheet material	an an an	N/A
The Maria	Number of layers (pcs)	TER TIER WITER	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	et let let l	N/A
5.4.4.6.5	Mandrel test	ne me m	N/A
5.4.4.7	Solid insulation in wound components	- Tet Jet Jel	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	The The Tex	N/A
TEX TEX	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	mer mer mer	N/A
5.4.5	Antenna terminal insulation	LIE MALL WALL WA	N/A
5.4.5.1	General	a at at a	+ N/A
5.4.5.2	Voltage surge test	WALL WALL WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	4 4 4	N/A



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20,	IEC 62368-1	still with while while	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
" "	Clastic street that	EL MILL MELL MELL	NI/A
F.4.0	Electric strength test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MULL MULL MULL A	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WHITER WHITER WHI	N/A
5.4.8	Humidity conditioning	at let let the	N/A
- TEX	Relative humidity (%), temperature (°C), duration (h)	The August Augus	
5.4.9	Electric strength test	WHITE WALL WALL	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at	N/A
5.4.9.2	Test procedure for routine test	Will Mill Mur M.	N/A
5.4.10	Safeguards against transient voltages from external circuits	STEK MITER MITER MINI	N/A
5.4.10.1	Parts and circuits separated from external circuits	s & st st	N/A
5.4.10.2	Test methods	E WALL MALL WALL	N/A
5.4.10.2.1	General	A St St	N/A
5.4.10.2.2	Impulse test	Will Mil Mul 3	N/A
5.4.10.2.3	Steady-state test	at the	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	The sure sure	N/A
5.4.11	Separation between external circuits and earth	ITE WALL WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	* SLITER WITER SMITH	N/A
5.4.11.2	Requirements	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
Mr. Mr.	SPDs bridge separation between external circuit and earth	WHITE WHITE WALLE W	N/A
TILE MULL	Rated operating voltage U <sub>op</sub> (V)	TEX TEX STEE INT	_
A 15	Nominal voltage U <sub>peak</sub> (V)	12 111 111	_
MILLE	Max increase due to variation ΔU <sub>sp</sub>	EL STEE OLIE WITE	_ n_
. At	Max increase due to ageing ΔU <sub>sa</sub>	20 1 1 X	_
5.4.11.3	Test method and compliance	OLIE WILL WILL	N/A
5.4.12	Insulating liquid	The state of the s	N/A
5.4.12.1	General requirements	WILL MILL MULTE AND THE	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid	THE MUTT MUTT MUTT	N/A
5.4.12.4	Container for insulating liquid	at at all all	N/A
5.5	Components as safeguards	MULT WILL MILE	N/A
5.5.1	General	No such components as safeguards.	N/A



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	IEC 62368-1	Vr. Chr. Mr. M.	207
Clause	Requirement – Test	Result – Remark	Verdict
5.5.2	Conscitors and PC units	it with mile our	NI/A
	Capacitors and RC units	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
5.5.2.1	General requirement	MUTL LIVE ME.	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	THE THE NUTER OF	N/A
5.5.3	Transformers	10. 10. 12.	N/A
5.5.4	Optocouplers	TER STER WITER WALL	N/A
5.5.5	Relays	711 211 2	N/A
5.5.6	Resistors	ALTER WITER WHITE	N/A
5.5.7	SPDs	The state of	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	MALIER MALIE MALL V	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	STEE WALTER WAITER WA	N/A
A CLIEN	RCD rated residual operating current (mA)	at all the off	
5.6	Protective conductor	Must mer min	N/A
5.6.2	Requirement for protective conductors	t cet cet cres	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	LET THE MITTER	N/A
5.6.3	Requirement for protective earthing conductors		N/A
ice with	Protective earthing conductor size (mm²)	The tip of the sail	~
k nliek	Protective earthing conductor serving as a reinforced safeguard	A LEK TEK TEK	N/A
TEK.	Protective earthing conductor serving as a double safeguard	THE THE THE	N/A
5.6.4	Requirements for protective bonding conductors	Write Mrs. Mrs.	N/A
5.6.4.1	Protective bonding conductors	at at let	N/A
20	Protective bonding conductor size (mm²)	her were my my	_
5.6.4.2	Protective current rating (A)	et let let il	N/A
5.6.5	Terminals for protective conductors	Mr. Mr. My	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	JUNITER WHITER WHITER	N/A
INLIEK WY	Terminal size for connecting protective bonding conductors (mm)	NUTER WILLER	N/A
5.6.5.2	Corrosion	1	N/A
5.6.6	Resistance of the protective bonding system	LIE MALIE WALLE WAS	N/A
5.6.6.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.6.6.2	Test Method	White Music Maria	N/A
5.6.6.3	Resistance (Ω) or voltage drop	3	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.6.7	Reliable connection of a protective earthing conductor	the tet tet at	N/A	
5.6.8	Functional earthing	They are my man	N/A	
LITE WAY	Conductor size (mm²)	TER TER STEE STEE	N/A	
A 2	Class II with functional earthing marking	W. M. M. M.	N/A	
WALLE	Appliance inlet cl &cr (mm)	TEX STER OUTER SOUTH SO	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	H SLIER WILL MULTER WA	N/A	
5.7.2.1	Measurement of touch current	10 2 x 3	N/A	
5.7.2.2	Measurement of voltage	aliet wife while will	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	TEL SLIEN SLIEN SIGNIFEN	N/A	
5.7.4	Unearthed accessible parts	2 14 14	N/A	
5.7.5	Earthed accessible conductive parts	EX SITEX WITE WITE W	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	Tet itet stret out	N/A	
	Protective conductor current (mA)	Mr. Mr. An.	N/A	
VILLE WA	Instructional Safeguard	THE NITE MITTE	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	The last	N/A	
5.7.7.1	Touch current from coaxial cables	in me me m	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	MULTER WHITER WHITER WI	N/A	
5.7.8	Summation of touch currents from external circuits	NITER INLIER WHITER WHITE	N/A	
LIFEY WAL	a) Equipment connected to earthed external circuits, current (mA)	TEX LIES WITH WITH	N/A	
EK OLIEN	b) Equipment connected to unearthed external circuits, current (mA)	et est let let	N/A	
5.8	Backfeed safeguard in battery backed up suppl	ies which was all the	N/A	
NUTER	Mains terminal ES	No battery used	N/A	
400	Air gap (mm)	The Mr. Mr. Ly	N/A	

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	A SH SH SHE WAR	CITE P. NI
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 FEX VINITES



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01	IEC 62368-1		N/ 11 4
Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	Р
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	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 EX VINLIS
n in	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	Р
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	EX INTEX MATER WATER ON	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Lifet SLIFE WLIER SINI	N/A
6.4.3.1	Supplementary safeguards	and the state of	N/A
6.4.3.2	Single Fault Conditions	THE MILE WHILE	N/A
et d	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	LIE MITE WALL WALL V	Р
6.4.5	Control of fire spread in PS2 circuits	and the second	N/A
6.4.5.2	Supplementary safeguards	White while whi wh	N/A
6.4.6	Control of fire spread in PS3 circuits	THE REPORT OF	N/A
6.4.7	Separation of combustible materials from a PIS	MUTTE MUTE MUTE MUTE	N/A
6.4.7.2	Separation by distance	at all the talk	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
70	Openings dimensions (mm)	The Mr. M. M.	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	
711	Openings dimensions (mm)	the man and any	N/A	
Marie M	Flammability tests for the bottom of a fire enclosure	MULTER WALTER WALTER WALT	N/A	
ite <del>l</del> uni	Instructional Safeguard	TEX TEX STEE STEE	N/A	
6.4.8.3.5	Side openings and properties	No side openings	N/A	
Milit	Openings dimensions (mm)	THE LIER SLIER WITE ON	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	PULL AVE AVE AVE	N/A	
6.5	Internal and external wiring	at all all the	THE P	
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 P	
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	W P	
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A	
6.6	Safeguards against fire due to the connection to a	dditional equipment	P	
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	CES	Р	
7.2	Reduction of exposure to hazardous substanc	es the offer with w	N/A	
7.3	Ozone exposure	The Marie and Marie	N/A	
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A	
,+ ,	Personal safeguards and instructions	Mr. M. M. T.	_	
7.5	Use of instructional safeguards and instruction	ns the publication of the same	N/A	
et let	Instructional safeguard (ISO 7010)		_	
7.6	Batteries and their protection circuits	LIET WALLE WALLE WALL W	Р	
<u> </u>	THE LIFE ALLY AND		al P	
8.2 »	MECHANICALLY-CAUSED INJURY  Mechanical energy source classifications	2n -	P	
8.3		TER STER MIER MITE	P	
B.4	Safeguards against mechanical energy sources  Safeguards against parts with sharp edges and corners		Р	
8.4.1	Safeguards		P	
k NALTEK	Instructional Safeguard	MS1: Edges and corners of enclosure	P.T.	
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P	



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	110000000000000000000000000000000000000			SE SE SE
10,		IEC 62368-1	The Mark Mar Mur	
Clause	Requirement – Test	MUT. All. A.	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
tie mit	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
ER RUER	Moving MS3 parts only accessible to skilled person	at let let liet o	N/A
8.5.2	Instructional safeguard	and any and any	N/A
8.5.4	Special categories of equipment containing moving parts	t united united united unit	N/A
8.5.4.1	General	at at the set	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	antit mai ma ma	N/A
8.5.4.2.1	Protection of persons in the work cell	LEK TEK TEK NITEK	N/A
8.5.4.2.2	Access protection override	in my my	N/A
8.5.4.2.2.1	Override system	EX TEX STEX STEE SING	N/A
8.5.4.2.2.2	Visual indicator	m. m. m.	N/A
8.5.4.2.3	Emergency stop system	LIER NITER WITE WALL	N/A
NITEK MILI	Maximum stopping distance from the point of activation (m)	itet altet	N/A
EK JEK	Space between end point and nearest fixed mechanical part (mm):	To the left	N/A
8.5.4.2.4	Endurance requirements	it mit wit me a	N/A
WALTER	Mechanical system subjected to 100 000 cycles of operation	t intiget whitek whitek whi	N/A
TEK N	- Mechanical function check and visual inspection	A ST ST ST	N/A
in in	- Cable assembly:	white will will you	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	Street intrest martest materials	N/A
8.5.4.3.1	Equipment safeguards	a start set	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	it will mit me m	N/A
8.5.4.3.3	Disconnection from the supply	- at all all of	N/A
8.5.4.3.4	Cut type and test force (N):	Auri Aur Aur Au	N/A
8.5.4.3.5	Compliance	TEX TEX STEX NUTER	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
TE MILTE	Explosion test:	THE LIFE WIFE WIFE	N/A
8.5.5.3	Glass particles dimensions (mm):	10. 10. 10.	N/A
8.6	Stability of equipment	Et alter miter and while while	N/A
8.6.1	General	MS1: Mass of the unit	N/A
are ar	Instructional safeguard	LIE ALTE BLIL MALL	N/A



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20.	IEC 62368-1	KIS THE WAS THE	70. 2.
Clause	Requirement – Test	Result – Remark	Verdict
8.6.2	Static stability	An in Anti- Our D	N/A
8.6.2.2	Static stability test:	all the state of	N/A
8.6.2.3	Downward force test	Aller Aller Aller Aller	N/A
J	1 The	THE THE WITH MAN	N/A N/A
8.6.3	Relocation stability	We also my	IN/A
ier white	Wheels diameter (mm):	The still of the still	——————————————————————————————————————
	Tilt test	Mr. All All	N/A
8.6.4	Glass slide test	* STEP WITER WITE W	N/A
8.6.5	Horizontal force test:	211, 211,	N/A
8.7	Equipment mounted to wall, ceiling or other stru		N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	LIER WITE WILL WINE	N/A
<u> </u>	Test 1, additional downwards force (N):		N/A
m, t	Test 2, number of attachment points and test force (N)	the marie mail mair	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)	WHITEK WHITEK WHITEK WA	N/A
8.8	Handles strength	at the st	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	The Little	N/A
, 4	Number of handles:	is me me m	
MITE	Force applied (N)	A TEX TEX STEEL	رن <sup>ان م</sup> رنا
8.9	Wheels or casters attachment requirements	Mr. Mr. Mr.	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	211 24 20	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	Et JEK JEK WITER	N/A
8.10.3	Cart, stand or carrier loading test	The The The	N/A
White is	Loading force applied (N)	- LIEN WILEY WILE M	N/A
8.10.4	Cart, stand or carrier impact test	m m	N/A
8.10.5	Mechanical stability	ALTER INLIER MALTE MALT	N/A
, et . 15	Force applied (N)	in an a	44-
8.10.6	Thermoplastic temperature stability	LIEF WITE WALLE WALLE	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 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
de	Will the state of	it with the	The Me
	Instructional Safeguard:	10 10	N/A
8.11.3	Mechanical strength test	OLIER WILLE WALLE	JIN/A
8.11.3.1	Downward force test, force (N) applied:	The state of	N/A
8.11.3.2	Lateral push force test	RLIE WALTE WALL W	N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance	TE WILL MILL MILL	N/A
8.12	Telescoping or rod antennas	s st st st	N/A
1/11/2	Button/ball diameter (mm)	No such parts	

9	THERMAL BURN INJURY		ZIL B
9.2	Thermal energy source classifications	the state of the s	Р
9.3	Touch temperature limits	THE METERINAL WALL WILL WILL WILL WILL WILL WILL WI	Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	IEK PLI
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy source	SITE MITE WALL WALL	A <sub>U</sub> , b
9.5	Requirements for safeguards		P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	THE VIN
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitt	ers to the tree tree tree	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	THE STEE STEEL WITH MILITE	N/A
9.6.3	Test method and compliance	:2	N/A

10	RADIATION		Р
10.2	Radiation energy source classification		P
10.2.1	General classification	See below	P
الاستعيا	Lasers:	LIFE NITER MITE MALIE	_
TEK WILL	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	_
t JUE	Image projectors	at at the test of	_
70,	X-Ray:	mi mi m m	_
NITE.	Personal music player	LEK TEK TEK ALTE	_



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T.F. MUTT	mr. ne m.	IEC 62368-1	LITER WITER WILLER	The Marie Marie
Clause	Requirement – Test	ANT THE TO	Result – Remark	Verdict

10.3	Safeguards against laser radiation		N/A
מורה מו	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps and lamp syste (including LED types)		WALL P.
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	LIFE P
WALTER	Instructional safeguard provided for accessible radiation level needs to exceed	t street outset market	N/A
J.	Risk group marking and location:	711 72	N/A
iner an	Information for safe operation and installation	ALTER WALTER WALTE WALTE	N/A
10.4.2	Requirements for enclosures	Ch The At Ch	N/A
ry Mer	UV radiation exposure	LIE MITE WALL WALL T	N/A
10.4.3	Instructional safeguard	e at at	N/A
10.5	Safeguards against X-radiation	THE WILL MAN WA	N/A
10.5.1	Requirements	No X-radiation	N/A
1115 1	Instructional safeguard for skilled persons	White Main and whi	_
10.5.3	Maximum radiation (pA/kg)	the state of the	_
10.6	Safeguards against acoustic energy sources		Р
10.6.1	General	THE LIES	N/A
10.6.2	Classification	Headphones: RS2	N/A
MALTE	Acoustic output L <sub>Aeq,T</sub> , dB(A):	See EN 50332-2 test report No.: WTF23X10227452Y.	N/A
uniter ou	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
at s	Digital output signal (dBFS)	The state of	N/A
10.6.3	Requirements for dose-based systems	NITE UNLIE WALL WALL	N/A
10.6.3.1	General requirements	a state of	N/A
10.6.3.2	Dose-based warning and automatic decrease	it with min min m	N/A
10.6.3.3	Exposure-based warning and requirements	- at at at 5	N/A
20 2	30 s integrated exposure level (MEL30)	With Mrs. My My	N/A
STEEL W	Warning for MEL ≥ 100 dB(A)	LEK TEK TEK STEK	N/A
10.6.4	Measurement methods	mer mer mer an	N/A
10.6.5	Protection of persons	TEX TEX STEX STEX	N/A
,	Instructional safeguards	in the the top to	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	ANTER WILLER WATER WA	Р
10.6.6.1	Corded listening devices with analogue input	at the title	N/A



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- all	IEC 62368-1						
Clause	Requirement – Test	Result – Remark	Verdict				
n.		TER THE WALL THE WALL THE	NI/A				
	Listening device input voltage (mV)		N/A				
10.6.6.2	Corded listening devices with digital input	alter with wall was	N/A				
Jet 1	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	Sin to the set	N/A				
10.6.6.3	Cordless listening devices	ALTER ANTIE WALL WALL	N. B. M.				
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	See EN 50332-2 test report No.: WTF23X10227452Y.	WALTER WALTER				

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.1	General	at at the state	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		TE P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
M	Audio Amplifiers and equipment with audio amplifiers	e white militarity and	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	WP
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	(See appended table B.3)	P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
t TEX	Instructional safeguard	e at at at a	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(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)	Р
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions		P
B.4.1	General	MILL MILL MILL MILL	Р
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	WILLTELL W
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р



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Clause	Requirement – Test	Result – Remark	Verdict
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р
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	P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	ALTER PA
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	- 1 L 1+	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	L A St	N/A
C.2.2	Mounting of test samples	incite white wait wa	N/A
C.2.3	Carbon-arc light-exposure test	at at at a	N/A
C.2.4	Xenon-arc light-exposure test	WHILE MUTTE MUTT MUTE MUTE	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	Write Maria Mar Mar	N/A
D.2	Antenna interface test generator	at let let tet	N/A
D.3	Electronic pulse generator	in mur mur mur a	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
WILLER WA	Maximum non-clipped output power (W):	TEX TEX STEEL WITE	_
AL A	Rated load impedance (Ω):	me m m	
The WALL	Open-circuit output voltage (V)	TEX STEE WITER WITE	<u> </u>
(+ )(+	Instructional safeguard	24 24	_
E.2	Audio amplifier normal operating conditions	tek nuter anuter anuter au	N/A
LE*	Audio signal source type:	3 x 2+ 2	é –
with a	Audio output power (W):	aliet mile wall wal	_



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	INESUIT - INEITIAIN	Verdict
,et	Audio output voltage (V):	The shift of	_
Mrs. M	Rated load impedance (Ω):	CLIEB WILL MILL MALL	_
Let 3	Requirements for temperature measurement	The state of the state	N/A
E.3	Audio amplifier abnormal operating conditions	ALTE WALTE WALT WALT	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		TEL P
F.1	General	74 74	P.O
and a	Language	English	
F.2	Letter symbols and graphical symbols	L A A A	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	WILLER OF
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P TEK MILI
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	P.O
F.3.2.1	Manufacturer identification	See copy of marking plate	P
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	P.
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.	Р
F.3.3.3	Nature of the supply voltage:	ALTER MALTE WALL WALL	N/A
F.3.3.4	Rated voltage:	a state state	N/A
F.3.3.5	Rated frequency:	it, more more me m	N/A
F.3.3.6	Rated current or rated power:	- it lit set s	N/A
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	They were they be	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	LIER WALTER WALTER WALTER	N/A
F.3.5.2	Switch position identification marking	a at at at	N/A
F.3.5.3	Replacement fuse identification and rating markings	white we we we	N/A
ale al	Instructional safeguards for neutral fuse	ALTER BLIE MALL MALL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
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		N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	THE STIFF WITE WALL OF	N/A
F.3.6.1.1	Protective earthing conductor terminal:	711 Jr.	N/A
F.3.6.1.2	Protective bonding conductor terminals:	A CHIEF WITE WITE WALL WAS	N/A
F.3.6.2	Equipment class marking:	W T A B	N/A
F.3.6.3	Functional earthing terminal marking:	WITE WILL MALL MALL	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	MUTEL W
F.3.8	External power supply output marking:	, 24. 2	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	MUTER
F.4	Instructions	et jet jet jiet	Р
	a) Information prior to installation and initial use	See user manual	Р
E. WILLE	b) Equipment for use in locations where children not likely to be present	EX WITEX WITEX WITEX	N/A
LIER	c) Instructions for installation and interconnection	- et set set s	N/A
All A	d) Equipment intended for use only in restricted access area	Mury Mury Mury Mil	N/A
ur, an	e) Equipment intended to be fastened in place	WILE MULLE MULL MULL	N/A
LEF LE	f) Instructions for audio equipment terminals	a to the set	P
11/1	g) Protective earthing used as a safeguard	LIET MILE WALL MALL	N/A
WALTER.	h) Protective conductor current exceeding ES2 limits	et stret miret milet su	N/A
	i) Graphic symbols used on equipment	20, 23, 3	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
White of	j) Permanently connected equipment not provided with all-pole mains switch	TEX TEX STEX	N/A	
Stell Si	k) Replaceable components or modules providing safeguard function	THE THE VIEW	N/A	
20	Equipment containing insulating liquid	Will Aut Aut Au	N/A	
IEN STEP	m) Installation instructions for outdoor equipment	at all all of	N/A	
F.5	Instructional safeguards	re me me me	Р	
G	COMPONENTS		P	
G.1	Switches	Mr. Mr. M.	N/A	
G.1.1	General	No switch used	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	me me me	N/A	
G.1.3	Test method and compliance	THE STIFF STIFF SIN	N/A	
G.2	Relays	14 14 14 14 14 14 14 14 14 14 14 14 14 1	N/A	
G.2.1	Requirements	No relay used.	N/A	
G.2.2	Overload test	20 20 3	N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	WALTER WALTER WALTER	N/A	
G.2.4	Test method and compliance	At MITTER AND	N/A	
G.3	Protective devices	7 1	N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
t mitex	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	A LEG TEX STER	N/A	
TEX.	Thermal cut-outs tested as part of the equipment as indicated in c)	The the the	N/A	
G.3.1.2	Test method and compliance	WHITE WALL WALL V	N/A	
G.3.2	Thermal links	No such component	N/A	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	ner un un un	N/A	
M	b) Thermal links tested as part of the equipment	ie with with the	N/A	
G.3.2.2	Test method and compliance	a state of	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	mur mur m	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	TEL MULL MILL MA	N/A	
G.3.5.2	Single faults conditions:	CER NITER MILIE MALIE	N/A	
G.4	Connectors	70 T	N/A	
G.4.1	Spacings	No such component	N/A	



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10,	IEC 62368-1	Will they were when	24, 45,
Clause	Requirement – Test	Result – Remark	Verdict
an .		the will will all the	2000 2000
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	White white with	N/A
G.5	Wound components	TEN JEN MITER IN	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	TER STEEL WITER WILL	N/A
G.5.2	Endurance test	4, 4,	N/A
G.5.2.1	General test requirements	ALTER WITE WITE	N/A
G.5.2.2	Heat run test	The state of	N/A
ne in	Test time (days per cycle)	WILL WILL WILL A	urc —
TEX IS	Test temperature (°C):	The state of	
G.5.2.3	Wound components supplied from the mains	LIFE WHITE WHITE WH	N/A
G.5.2.4	No insulation breakdown	a at at at	N/A
G.5.3	Transformers	WIT WIT WIT	N/A
G.5.3.1	Compliance method:	at at let	N/A
111, 21	Position:	White Mrs. Mrs.	N/A
STER ST	Method of protection:	at the same	N/A
G.5.3.2	Insulation	2 Car and	N/A
TEX OCTES	Protection from displacement of windings:	A CONTRACTOR	<u> </u>
G.5.3.3	Transformer overload tests	3, Mr. 100, 14	N/A
G.5.3.3.1	Test conditions	of the the alle	N/A
G.5.3.3.2	Winding temperatures	The Annual Annua	N/A
G.5.3.3.3	Winding temperatures - alternative test method	TER SITE MITTER	N/A
G.5.3.4	Transformers using FIW	We all a	N/A
G.5.3.4.1	General	LIET NIET WILLEN	N/A
et et	FIW wire nominal diameter:		* _
G.5.3.4.2	Transformers with basic insulation only	TEL WITE WALLE WALL	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	THE STEE STIES	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	THE THE STEEL	N/A
G.5.3.4.5	Thermal cycling test and compliance	The My The T	N/A
G.5.3.4.6	Partial discharge test	TER STER STER OU	N/A
G.5.3.4.7	Routine test	The The Th	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	11, 11, 12,	N/A
G.5.4.2	Motor overload test conditions	TER THE STEEL	N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
Mrs.		ER WILL WILL AND	The The	
G.5.4.3	Running overload test		N/A	
G.5.4.4.2	Locked-rotor overload test	WILL MALL MALL	N/A	
Set 5	Test duration (days):	- + c+	- Let	
G.5.4.5	Running overload test for DC motors	WILL MULL MULL MY	N/A	
G.5.4.5.2	Tested in the unit	2 A A A	N/A	
G.5.4.5.3	Alternative method	TER MULTE WALL WALL	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	L at let let	N/A	
G.5.4.6.2	Tested in the unit	MULL MULL MULL	N/A	
LIFE N	Maximum Temperature	et et set	N/A	
G.5.4.6.3	Alternative method	Mure Mure Mure A	N/A	
G.5.4.7	Motors with capacitors	LEK TEK TEK	N/A	
G.5.4.8	Three-phase motors	m. mr. m. m.	N/A	
G.5.4.9	Series motors	EK TEK STEK STE	N/A	
	Operating voltage:	my my m		
G.6	Wire Insulation	t let liet wife.	N/A	
G.6.1	General	Only ES1 existed	N/A	
G.6.2	Enamelled winding wire insulation	LEE THE NUMBER OF	N/A	
G.7	Mains supply cords		N/A	
G.7.1	General requirements	No such component	N/A	
t et	Туре:		_	
G.7.2	Cross sectional area (mm² or AWG):	CH COLLEGE MALTER MALTER	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	LIET SLIET BLIEF	N/A	
G.7.3.2	Cord strain relief	10, 10, 10	N/A	
G.7.3.2.1	Requirements	LIEF WIFE WILLENN	N/A	
et et	Strain relief test force (N)		N/A	
G.7.3.2.2	Strain relief mechanism failure	TEL MITE MALTE WALL	N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	and the state of	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	MILLE MILLE MILLE	N/A	
G.7.4	Cord Entry	A A A	N/A	
G.7.5	Non-detachable cord bend protection	Write Mure Mury M	N/A	
G.7.5.1	Requirements	A A A A	N/A	
G.7.5.2	Test method and compliance	TIE WILL MITT AND	N/A	
WALTER	Overall diameter or minor overall dimension, <i>D</i> (mm)	Et NITET MILIER MILIER	wing _	
d	Radius of curvature after test (mm):	-50		



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6	Supply wiring space	they were my m	N/A	
G.7.6.1	General requirements	TEX ITEX SITEX MIT	N/A	
G.7.6.2	Stranded wire	The Anna Marian	N/A	
G.7.6.2.1	Requirements	TEX ITEX ALIEN OLICE	N/A	
G.7.6.2.2	Test with 8 mm strand	in the the the	N/A	
G.8	Varistors	TE STEE NIET SPITE	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	The dustream component	N/A	
G.8.2.1	General	M. Z. A.	N/A	
G.8.2.2	Varistor overload test	Chille Will Mill	N/A	
G.8.2.3	Temporary overvoltage test	7 74 94 194	N/A	
G.9	Integrated circuit (IC) current limiters	WILL MUTE MUTE WALL	N/A	
G.9.1	Requirements	No such component	N/A	
	IC limiter output current (max. 5A)	W. M. M. M.		
ال المتالية	Manufacturers' defined drift	- Let Let Let al	_	
G.9.2	Test Program	White August Aug	N/A	
G.9.3	Compliance	At CALLET MILE	N/A	
G.10	Resistors	- 1 1 1 1 1 1 t	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	The state of	N/A	
G.10.3	Resistor test	MITTER WALLE WALL VAN	N/A	
G.10.4	Voltage surge test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.10.5	Impulse test	WILL MULL MULL MULL	N/A	
G.10.6	Overload test	at at let let	N/A	
G.11	Capacitors and RC units	Write Aut Aut Aut	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	mer me me m	N/A	
G.11.3	Rules for selecting capacitors	- tex tex ties ni	N/A	
G.12	Optocouplers	Mr. Mr. Mr. D.	N/A	
Wille AVE	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
TEK OLTER	Type test voltage V <sub>ini,a</sub> :	LET TEX TEX		
72.	Routine test voltage, V <sub>ini, b</sub> :	Tr. Aug. Aug.		
G.13	Printed boards	et tet tet at alle	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
G.13.2	Uncoated printed boards	Maria Maria Maria	N/A
G.13.3	Coated printed boards	LIER NITE WITE	N/A
G.13.4	Insulation between conductors on the same inner surface	TEX TEX STEX IN	N/A
G.13.5	Insulation between conductors on different surfaces	of the text of	N/A
10	Distance through insulation	The August August August	N/A
NITE.	Number of insulation layers (pcs)	t get get light	
G.13.6	Tests on coated printed boards	Mer Mer Mer	N/A
G.13.6.1	Sample preparation and preliminary inspection	THE LIES SLIPE	N/A
G.13.6.2	Test method and compliance	me me	N/A
G.14	Coating on components terminals	THE LITER WITER AND	N/A
G.14.1	Requirements	2 My 20 1	N/A
G.15	Pressurized liquid filled components	TEX SITES MITE SALIE	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	CLIEF WIFE WALLE	N/A
G.15.2.1	Hydrostatic pressure test	The state of the s	N/A
G.15.2.2	Creep resistance test	MILLE WILLIAM	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	The Will Mar Mar	N/A
G.15.2.5	Thermal cycling test	a st set set	N/A
G.15.2.6	Force test	MULL MULL MULL	N/A
G.15.3	Compliance	Let Let Let	N/A
G.16	IC including capacitor discharge function (ICX)	mer mer me 1	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
1 1	ICX with associated circuitry tested in equipment	We My My My	N/A
ET MALTE	ICX tested separately	EX SEX SIEX OUT	N/A
G.16.2	Tests	Mr. M. M.	N/A
AUG A	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	WALTER WALTER WALTER	mei –
INLTER WILL	Mains voltage that impulses to be superimposed on	WILLER MALTER MALTER W	LITER —
TEX WALTE	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	TEK STEK WIEK WAL	set —
G.16.3	Capacitor discharge test	20, 2, 2	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
H.1	General	The state of	N/A
H.2	Method A	alie alie antic	N/A



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T.E. MUTT	Mr. Mar All March	IEC 62368-1	LIFER WITE WALLER	Tie Mure Mari
Clause	Requirement – Test	ANT ALL A	Result – Remark	Verdict

H.3	Method B		N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	With My My My	_
H.3.1.2	Voltage (V):	et set set set seet o	_
H.3.1.3	Cadence; time (s) and voltage (V):	e me me me m	_
H.3.1.4	Single fault current (mA):	t the tip start with	_
H.3.2	Tripping device and monitoring voltage	Mr. Mr. And Andrews	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	united white white white	N/A
H.3.2.2	Tripping device	THE THE LIFE OUTER	N/A
H.3.2.3	Monitoring voltage (V)	ir mr. m.	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	L LEK TEK TEK SIT	N/A
70, 2	Winding wire insulation	Mr. Mr. Mr. Mr.	_
NETER SINE	Solid round winding wire, diameter (mm):	it the street	N/A
TEK SITE	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	The state of the s	N/A
J.2/J.3	Tests and Manufacturing	it with the sur so	, <u>,</u>
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
MUTIEL M	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	Writ Aur Aur Au	N/A
K.4	Interlock safeguard override	ex rex rex right or	N/A
K.5	Fail-safe	in my my my m	N/A
K.5.1	Under single fault condition	- TEK STEK STEK INT	N/A
K.6	Mechanically operated safety interlocks	Mer. Mr. Mr. Mr.	N/A
K.6.1	Endurance requirement	TEX LIEX NITE WITE	N/A
K.6.2	Test method and compliance:	me m m	N/A
K.7	Interlock circuit isolation	CIEN STEE STEE STEEL STEEL	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	et tet tet stit stit is	N/A
TEX	In circuit connected to mains, separation distance for contact gaps (mm):	Mer My My M	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
- 11 - 1	In circuit isolated from mains, separation distance	the man we we	N/A
MITER	for contact gaps (mm)	TEX LIEX LIEX MLT	
	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):	will man mur me	N/A
K.7.3	Endurance test	et set set stet	N/A
K.7.4	Electric strength test	y my my my m	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	mer mer m. m.	N/A
L.2	Permanently connected equipment	TEX LIEX OLIER ONLE	N/A
L.3	Parts that remain energized	me m m	N/A
L.4	Single-phase equipment	THE SITE OF THE MITTER	N/A
L.5	Three-phase equipment	in the transfer of	N/A
L.6	Switches as disconnect devices	EX STER WILL WITE M	N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources	NITER WALTER WALTER WALL	N/A
Let .	Instructional safeguard		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	n <sub>u</sub> P
M.1	General requirements	the part	P
M.2	Safety of batteries and their cells	itie white man man a	Р
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	P
M.3	Protection circuits for batteries provided within the equipment	tet tiet street mile	P
M.3.1	Requirements	Mr. Mr. Mr.	Р
M.3.2	Test method	LIER SLIER WILL WALTER	JIP P.
er Jer	Overcharging of a rechargeable battery	(See appended table Annex M)	TEK P

	In circuit isolated from mains, separation distance for contact gaps (mm):	at the the state	N/A
JH S	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):	WILL MULL MULL MULL O	N/A
K.7.3	Endurance test	at let let let let	N/A
K.7.4	Electric strength test	in my my m	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	AND THE AND THE	N/A
L.2	Permanently connected equipment	TEX STEX STEX OUTE	N/A
L.3	Parts that remain energized	The August Augus	N/A
L.4	Single-phase equipment	TER LIER STER WITER WITER	N/A
L.5	Three-phase equipment	2 m m m	N/A
L.6	Switches as disconnect devices	EK LIEK RLIE JALIE JA	N/A
L.7	Plugs as disconnect devices	THE STATE OF	N/A
L.8	Multiple power sources	ALTER MITE WALTE WALT	N/A
Jet .	Instructional safeguard		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N P W
M.1	General requirements	- The 11th	AP S
M.2	Safety of batteries and their cells	LITE WALTE WALL WALL TH	Р
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	PIE
M.3	Protection circuits for batteries provided within the equipment	THE STEEL STEEL STATES	P.Y
M.3.1	Requirements	Mr. Mr. Mr.	Р
M.3.2	Test method	LIER SLIER WILL WHITE OF	LO PAR
EK MITE	Overcharging of a rechargeable battery	(See appended table Annex M)	JEK P JALTE
TEK	Excessive discharging	(See appended table Annex M)	P
70x	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
ne m	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	EX PURITER
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	WA P



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Clause	Requirement – Test	Result – Remark	Verdict
win	an an in the	Et LIFE MITE MILE WA	1000
M.4.1	General	20 20 X	Ļ P,⊁
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.	WP WALEY WALEY WALEY
M.4.2.1	Requirements	Mury My My My	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	P
M.4.3	Fire enclosure	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	LIER WHITER WHITER WHITER	WILL B
M.4.4.2	Preparation and procedure for the drop test	A SH SEX SEX	P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	Р
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	WP CLIER
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	Р
M.4.4.6	Compliance	The Maria Maria	Р
M.5	Risk of burn due to short-circuit during carrying	g of the late of	P.
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	INLIE WALTE WALL WALL	N/A
M.6	Safeguards against short-circuits	a at at at	€P
M.6.1	External and internal faults	HITE WALL WALL WALL	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	TEK PAN
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
MALL	Calculated hydrogen generation rate:	TEX STEE STEE WALTER	N/A
M.7.2	Test method and compliance	74 74	N/A
Will.	Minimum air flow rate, Q (m³/h):	EX THE WALL MA	N/A
M.7.3	Ventilation tests	1 1 1 1 10 10	N/A
M.7.3.1	General	ALTER BUTE WALL WALL	N/A

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27	IEC 62368-1	5 24 W. 24 )	
Clause	Requirement – Test	Result – Remark	Verdict
M 7 2 2	Manakilaki arata aka Manus akisa d	the water water our way	NI/A
M.7.3.2	Ventilation test – alternative 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
<u> </u>	Hydrogen gas concentration (%)	WHILE AND AND AND	N/A
M.7.3.3	Ventilation test – alternative 2	the set of the	N/A
70,	Obtained hydrogen generation rate	write man man	N/A
M.7.3.4	Ventilation test – alternative 3	et at alt alt	N/A
	Hydrogen gas concentration (%)	y mr. mr. m. n	N/A
M.7.4	Marking	L SH SER SER	N/A
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	MITER MITE WALL VIALL	N/A
M.8.2	Test method	The set of the	N/A
M.8.2.1	General	LIFE MALL WALL WALL	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m³/s):	at the set set	JEX -
M.8.2.3	Correction factors:	white the sure of	4,
M.8.2.4	Calculation of distance d (mm):	at let let it	E
M.9	Preventing electrolyte spillage	White Many Many May	N/A
M.9.1	Protection from electrolyte spillage	Et JIET STE	N/A
M.9.2	Tray for preventing electrolyte spillage	1 1/2 2/2	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	TE WHITE WHITE WHITE	N/A
LIER	Instructional safeguard	t et set set s	N/A
N	ELECTROCHEMICAL POTENTIALS	The Me Me Me	N/A
CLIER OF	Material(s) used:	EK TEK TEK SITE	10 TE
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
LITET NICH	Value of X (mm):	TEX TEX LIET SLIET	INCTÉ.
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS	Р
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of e	entry of a foreign object	Р
P.2.1	General	- LIEF WIFE WILL AND	Р
P.2.2	Safeguards against entry of a foreign object		Р
West and	Location and Dimensions (mm)	No opening.	MUTTE
P.2.3	Safeguards against the consequences of entry of a foreign object	Tet light wifet writer	N/A
P.2.3.1	Safeguard requirements	14, 14, 16,	N/A
MULTE	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	AND THE MULTER WHITER WE	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
in.	M. M. S. C. Life Mil	ET WILL MILL MALL M	in all	
	Transportable equipment with metalized plastic parts	at at at it	N/A	
P.2.3.2	Consequence of entry test	white with mill and	N/A	
P.3	Safeguards against spillage of internal liquids	et est rest west	N/A	
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	cet tet tet attet	N/A	
P.3.3	Spillage safeguards	in his man	N/A	
P.3.4	Compliance	* IFF SIFF OLIFF SON	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	The the total	N/A	
in Juneil	Conditioning, T <sub>C</sub> (°C):	LIEF WILL MALLE WALLE	2 11/1	
y	Duration (weeks)	· · · · · · · · · · · · · · · · · · ·	18th -	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	N/A	
Q.1	Limited power sources	The set of	N/A	
Q.1.1	Requirements	MULL MULL MULL MULL	N/A	
NITER IN	a) Inherently limited output	at the steel	N/A	
12 - 2 11 -	b) Impedance limited output	2 July July	N/A	
CENTY OF LIVE	c) Regulating network limited output	THE THE THE	N/A	
	d) Overcurrent protective device limited output	y my my my	N/A	
MITTER	e) IC current limiter complying with G.9	of the life with an	N/A	
Q.1.2	Test method and compliance:	See below	N/A	
MUTITE M	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N/A	
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A	
EX SITE	Maximum output current (A):	IN THE TEN TEN	N/A	
20	Current limiting method	in mer me m	7,	
R	LIMITED SHORT CIRCUIT TEST	of the text time at	N/A	
R.1	General	No such consideration.	N/A	
R.2	Test setup	TEX STEX SLIER SOLTER	N/A	
	Overcurrent protective device for test:	me me in m	26-	
R.3	Test method	TEX STEX WITE WITE	N/A	
e et	Cord/cable used for test	14 14 14 14 14 14 14 14 14 14 14 14 14 1	<i>*</i> –	
R.4	Compliance	EX CLEX SLIE SLIE SU	N/A	



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Unite and	my no m	IEC 62368-1	LIFE MITER WILLER	MUTTE MUTTE MILL
Clause	Requirement – Test	the Author Author	Result – Remark	Verdict

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	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
Tile W	Samples, material:	10 LL _ 1
A- 1	Wall thickness (mm)	-t-
J. J. W.	Conditioning (°C)	9/2
MALTER	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
*	- Material not consumed completely	N/A
Willy a	- Material extinguishes within 30s	N/A
J.	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
y	Samples, material:	et - 4
are	Wall thickness (mm)	100
LEX.	Conditioning (°C)	- <u> </u>
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
EK OU	Mounting of samples:	را <del>ر ( – ر</del> از
42,	Wall thickness (mm)	
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	N/A
et .	Samples, material	CENT.
10	Wall thickness (mm)	112 -01
Et JE	Conditioning (°C)	5 EF - 5 1
T "	MECHANICAL STRENGTH TESTS	N/A
T.1 (18)	General	N/A
T.2	Steady force test, 10 N:	N/A
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N:	N/A
T.5	Steady force test, 250 N:	N/A
T.6	Enclosure impact test	N/A
WALTE	Fall test	N/A
d	Swing test	N/A
T.7	Drop test:	N/A



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01	IEC 62368-1	D # D	11/ 11/
Clause	Requirement – Test	Result – Remark	Verdict
T.8	Stress relief test:		N/A
T.9	Glass Impact Test	No such glass	N/A
T.10	Glass fragmentation test	at at at let	N/A
211	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas	at let tet tret	N/A
- TEX	Torque value (Nm):	No such antennas provided within the equipment.	N/A
O Sup.	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1 J	General	alies while while while	N/A
LIEK WILL	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A
U.3	Protective screen	TEX LIEX NUTER WITER OF	N/A
V	DETERMINATION OF ACCESSIBLE PARTS	The The second	N/A
V.1	Accessible parts of equipment	L SLIFE WHITE WALL	N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	The many many	N/A
V.1.3	Openings tested with straight unjointed test probes	THE LIFE OF THE WAITER	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	An An A	N/A
V.1.5	Slot openings tested with wedge probe	* SITER NITER MITTER WA	N/A
V.1.6	Terminals tested with rigid test wire	n, n,	N/A
V.2	Accessible part criterion	CHIEF WILL WALL WALL	N/A
X EL WALL	ALTERNATIVE METHOD FOR DETERMINING CLINSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
EX WITE	Clearance	CH THE THE STEEL	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	The My My M	N/A
Y.3	Resistance to corrosion	TEX STEX OUTER WITE	N/A
Y.3	Resistance to corrosion	Mr. Mr. La	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TEE WALTER WALTER WALTE	N/A
Y.3.2	Test apparatus	et let let let let	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	Mur Mu M. A.	N/A
Y.3.4	Test procedure:	THE THE STATE OF	N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
ale.		ite alite and and	41/2 11/2
Y.3.5	Compliance	70, 7, 7	N/A
Y.4	Gaskets	ALTER MITE MALTE	N/A
Y.4.1	General	20 L X	N/A
Y.4.2	Gasket tests	RETER MALTE MALL VI	N/A
Y.4.3	Tensile strength and elongation tests	a state of	N/A
7/1	Alternative test methods	Will while while whi	N/A
Y.4.4	Compression test	L IN AT A	N/A
Y.4.5	Oil resistance	MULL MAL MAL	N/A
Y.4.6	Securing means	at let let	N/A
Y.5	Protection of equipment within an outdoor encl	osure	N/A
Y.5.1	General	at let let.	N/A
Y.5.2	Protection from moisture	her me me in	N/A
MITE	Relevant tests of IEC 60529 or Y.5.3:	EX TEX STEX SIS	N/A
Y.5.3	Water spray test	Mr. Mr. Mr.	N/A
Y.5.4	Protection from plants and vermin	TEN LIEN OUTE	N/A
Y.5.5	Protection from excessive dust	111 111	N/A
Y.5.5.1	General	Et Mile	N/A
Y.5.5.2	IP5X equipment	- 4 3.	N/A
Y.5.5.3	IP6X equipment	TE RITE WILL WA	N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General	THE MALTER MALL	N/A
Y.6.2	Impact test:	1 1	N/A



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in m	711, 711, 71	IEC 62368-1	ITER MITE WALL ON	Vr. Ou	21/2
Clause	Requirement – Test	MUE, THE IN	Result – Remark	et d	Verdict

#### ATTACHMENT TO TEST REPORT

#### IEC 62368-1

## **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

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

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

Attachment Form No.....: EU\_GD\_IEC62368\_1E

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

Master Attachment.....: 2021-02-04

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	CENELEC COMMON MODIFICATIONS (EN)	Р
MUTER O	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.  Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	P
NI WITE	Add the following annexes:  Annex ZA (normative)Normative references to international publications with their corresponding European publications	NE P
	Annex ZB (normative)Special national conditions  Annex ZC (informative)A-deviations  Annex ZD (informative)IEC and CENELEC code designations for flexible cords	
1	Modification to Clause 3.	Р
3.3.19	Sound exposure  Replace 3.3.19 of IEC 62368-1 with the following definitions:	
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.  Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	P WALTE
3.3.19.3	sound exposure, E  A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is $Pa^2$ s. $E = \int_{0}^{T} p(t)^2 dt$	I N/A



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- Mr	IEC	62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
3.3.19.4	sound exposure level. SEL	LIFE WALL WALL WALL WALL	N/A

Clause	Trequirement – rest	Tresuit – Iremaik	Verdict
00404	1 1	The transfer of the sale	NI/A
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>Eo</i> , typically the 1 kHz threshold of hearing in humans.	MALIER WALTER WALTER WALLY	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	STEE WILL WALL WILL	71/2 V
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	ex miles miles mile w	NI WA
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	Whit Must Miss And	- NITEK
3.3.19.5	digital signal level relative to full scale, dBFS	WILL AND ME AND AND	N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	TEX WALTER WALTER WALTER	un tek un Li ik un Li
MALTER W	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	Whitek whitek whitek white	ek Walter
2	Modification to Clause 10		N/A
10.6	0.6 Safeguards against acoustic energy sources		N/A
'm'	Replace 10.6 of IEC 62368-1 with the following:		10 24
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	white white white whitek	y whitek
	<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>	MULTER WHITER WHITER WHITER	EX WALTER
	continuous use (for example, on a street, in a subway, at an airport, etc.).	TEX MILIER WALTER MALTER	iv an
	continuous use (for example, on a street, in a	TEX WHITEX WHITEX WHITEX W	ilik muril



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70,	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
2/12	NOTE 1 Protection against acquetic energy sources from	E WILL MILL MILL	21, 21,	
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	1 x x	Et LEX	
	NOTE 2 It is the intention of the Committee to allow the	LIER OLIE MAIL	West Mer	
	alternative methods for now, but to only use the dose	24 24 24 24		
	measurement method as given in 10.6.5 in future. Therefore,	at at the	TEN TIE	
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	WILL MILL MAY MA	. 2, 2,	
	THE THE SITE WITH WITH W		at at .	
	Listening devices sold separately shall comply	THE LIER STEEL WIT	The same	
	with the requirements of 10.6.6.  These requirements are valid for music or video	240 241 24		
	mode only.	at the set	TE TE	
	The requirements do not apply to:	THE WALL WALL	The The	
	– professional equipment;	10, 2	. t	
	is the the shift of	LET TEX TEX	RETER METERS	
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal	74. 14. 14. 2		
	electronics stores are considered not to be professional	1 1 1	LEK LEK	
	equipment.	THE SLIFE MITE WA	The M	
	hooring old aguisment and other devices for	20, 20, 2	1	
	<ul> <li>hearing aid equipment and other devices for assistive listening;</li> </ul>	of let let it	المان أكلا	
	the following type of analogue personal music	with the the	20,	
	players:	L .*	LET LET	
	• long distance radio receiver (for example, a	TER STEEL WITE	WILL WILL	
	multiband radio receiver or world band radio	The Mr. In.		
	receiver, an AM radio receiver), and	At 1 STATE	THE LIES	
	cassette player/recorder;	in with a	7 7 7	
	NOTE 4 This exemption has been allowed because this		et et	
	technology is falling out of use and it is expected that within a	the state of the	10 10	
	few years it will no longer exist. This exemption will not be extended to other technologies.	in the the th	~	
	The Title Will all the Miles	L of the tell	- 56 - 51°	
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while</li> </ul>	CLIE WILL WALL	The and	
	in use.	20, 20	.t .t	
	Third to the same of the same	THE THE THE	WILL WILL	
	For equipment that is clearly designed or intended	mer mer me	20	
	primarily for use by children, the limits of the		LET LET	
	relevant toy standards may apply.	LIER OLIE WITE W	" "II" "II	
	TINE WELL AND THE WALL WITH THE	1. 14. 15. 1.	1	
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods	at let let it	AL STEEL SOLE	
	and measurement distances apply.	MULL MULL MAN	20, 20,	
10.6.1.2	Non-ionizing radiation from radio frequencies	1 1 1 1	N/A	
71/20 1	in the range 0 to 300 GHz	CLIE WILL MALL	Mr. Mich	
	The amount of non-ionizing radiation is regulated	24. 20. 2	- L - 15	
	by European Council Recommendation	THE THE THE	NITE WITE	
	1999/519/EC of 12 July 1999 on the limitation of	our mer me m	,	
	exposure of the general public to electromagnetic	* * * * * * * * * * * * * * * * * * *	Eth CET	
	fields (0 Hz to 300 GHz).	LIEF SLIE WITE WI	, an an	
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	201 20 20		
	Time-Varying Electric, Magnetic, and	t it it il	الله الله	
	Electromagnetic Fields (up to 300 GHz). For hand-	WILL WALL WALL	21/2	
	held and body mounted devices, attention is	700	it it	
	drawn to EN 50360 and EN 50566.	THE THE JIE	CLIP WILL	



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Unite Maria	IEC 62368-1			
Clause	Requirement – Test	MULT. MILL MI	Result – Remark	Verdict

10.6.2	Classification of devices without the capacity to estimate sound dose		N/A
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	Not such equipment	N/A
	For classifying the acoustic output $L_{\text{Aeq},\tau}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	Whitek whitek whitek white	ite unit
	For music where the average sound pressure (long term $L_{Aeq, \tau}$ ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, $T$ becomes the duration of the song.	TEX WILLEX WILLEX WILLEY	on text on the second
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$ ) 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.	white	t white white
10.6.2.2  THE WILLIES	RS1 limits (to be superseded, see 10.6.3.2)  RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.  — The RS1 limits will be updated for all devices as	UNLIEK WALTER WA	N/A  IN LIFE  IN LIFE



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

	rtoquiromont root		SY15.55
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	There shere the m	P
10.6.2.3  SUPER WALTER WALTER WALTER WALTER WALTER WALTER	RS2 limits (to be superseded, see 10.6.3.3)  RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital	JUNITER WHITER WHITER WHITER  STEET WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  TEX WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER	EX WILLEY WILL WILL WILL WILL WILL WILL WILL WIL
	interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	et the sites with	NLTEX MALIE
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	White write white whi	N/A
10.6.3	Classification of devices (new)	the state of	N/A
0.6.3.1	General	Not such equipment	N/A
EK WALTER	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.	TEK STEK STEK STEK	un itik uni itik unitik
0.6.3.2	RS1 limits (new)	W. 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	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.	Whitek wh	MILIER WAS
10.6.3.3	RS2 limits (new)	MILE WILL WILLE	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player	Writes writes miles wit	EX MALTER



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	IEC 62368-1	- 20 - 20 - 2	
Clause	Requirement – Test	Result – Remark	Verdict
n.	THE TOTAL STATE OF THE STATE OF	the street of the	are are
	with its listening device), and with a proprietary	200	A 15
	connector between the player and its listening	LEK TER TER	Street William
	device, or where the combination of player and	were not many	20
	listening device is known by other means such as	20.	4 24
	setting or automatic detection, the weekly sound	Let Let Jen J	E. Jan
	exposure level, as described in EN 50332-3, shall	The state was all	- 2
	be ≤ 80 dB when playing the fixed "programme		L of .
	simulation noise" described in EN 50332-1.	at the state state	100
	- for equipment provided with a standardized	The The The	24
	connector (for example, a 3,5 phone jack) that	1 1	10 10
	allows connection to a listening device for general	THE SET SET	Will Will
	use, the unweighted r.m.s. output level, integrated	The war was	20, 2
	over one week, as described in EN50332-3, shall	1	J+ J#
	be ≤ 15 mV (analogue interface) or -30 dBFS	THE THE STATE OF	Live William
	(digital interface) when playing the fixed	With The Man M.	
	"programme simulation noise" described in EN		et let
10.6.4	50332-1.	THE STATE WITH WITH	NI/A
L 2+	Requirements for maximum sound exposure	, m, m, m,	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum	The The Land	
	during tests.	I st set	The The
	Measurements shall be made in accordance with	STEEL STEEL STATE OF	Vr. Mr.
		711 211	
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.	at the same	P
10.6.4.2	Protection of persons	and an	3) P3
	Except as given below, protection requirements for		L St
	parts accessible to ordinary persons,	The state of the	10 11
	instructed persons and skilled persons are	in the the	20, 10,
	given in 4.3.	1	.e+ .4
	NOTE 1 Volume control is not considered a safeguard.	MILIER WALTER WALTER	MULL MULL
	Between RS2 and an ordinary person, the basic	The state of	LET LET
	safeguard may be replaced by an instructional	TER STEP STEP STEP	Tree Were
	safeguard in accordance with Clause F.5, except	The sur in in	
	that the instructional safeguard shall be placed	1 1 1	Et JEt
	on the equipment, or on the packaging, or in the	THE STEE STEEL STEEL	11/2 11/2
	instruction manual.	1 11 11 11	
	Alternatively, the <b>instructional safeguard</b> may be	a state of	- (4 Et )
	given through the equipment display during use.	The MITTER WALL	11/2 21/2
	THE THE THE STEE WALL WALL THE	20, 25,	A 2
	The elements of the instructional safeguard	LIF SET SET	SUTE OUT
	shall be as follows:	INLL WILL WILL Y	211
	The tipe the tipe of the tipe	20	A 15
	_ element 1a: the symbol (אור), IEC 60417-	let let ter	The Will
	6044 (2011-01)	with mer were my	10, 7
	- element 2: "High sound pressure" or equivalent		* 4
	wording	At 1th 1th Jil	112 11
	<ul> <li>element 3: "Hearing damage risk" or equivalent</li> </ul>	y we we are	20, 20,
	wording		A. #- 16
	<ul> <li>element 4: "Do not listen at high volume levels</li> </ul>	I THE JET JET	WELL STORY
	for long periods." or equivalent wording	are are the	20, 20,
	the the the the the		16 CF
	The state of the s		



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
" le	THE THE THE	ALTER MITE MAIL	wer and
nnitek M	of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary person</b> and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	united whiles whiles a	Miret Miret
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	EX WALTER WALTER WALTER	Hant Et and antie antiet tiet antiet
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	TEX WALTER WALTER WAL	EK WY TEK MI
	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.	Whitek whitek whitek	MULLERANT
WILLER A	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	STER BUTER WAITER	Writer Murie
10.6.5	Requirements for dose-based systems		N/A
10.6.5.11	General requirements  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.	Not such equipment	N/A
	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.	Whitek whitek whitek whi	
10.6.5.2	Dose-based warning and requirements	* STEP RITE WITE	N/A
	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	Tet lifet stiet	NITEK WALTER



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01	IEC 62368-1	D 11 D 1	14
Clause	Requirement – Test	Result – Remark	Verdict
- de		E WILL WILL SHE	11/2 211
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	- L X	Let Let
	decrease to compliance with class RS1.	THE STEET WITE A	VII. WUT.
	A CHARLES THE SHEET STATE OF THE STATE OF TH	The top in a	
	The warning shall at least clearly indicate that	at at all o	IER LIFER
	listening above 100 % CSD leads to the risk of	Life with whi will	24, 2
ال ال	hearing damage or loss.		
10.6.5.3	Exposure-based requirements	SEX SEX STEEL WITH	N/A
	With only dose-based requirements, cause and	mr m m	
	effect could be far separated in time, defying the	A A A A	CIE SUF
	purpose of educating users about safe listening	RETER WILL WALL	11/2
	practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	20.	1 1th
	term sound level a user can listen at.	TEK STEK STEE	LITE WALL
	A SE SE SEE SEE SEEL SEEL SEEL SEEL SEEL	The The The In	
	The exposure-based limiter (EL) shall	at at at a	Et JEST
	automatically reduce the sound level not to exceed	TEN MITE WILL WALL	211. (1)
	100 dB(A) or 150 mV integrated over the past 180	20, 2	*
	s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level	A TEX TEX STEE	WILL SULL
	reduction to reaching target output) shall be 10 s	The The The	10, 10
	or faster.	* * *	LEF LE
	IN THE THE THE	ALTER OLITE MALLE	Vr. aver
	Test of EL functionality is conducted according to	41 41	4 4
	EN 50332-3, using the limits from this clause. For	LIFE OF STEEL STEEL	The Chile
	equipment provided as a package (player with its listening device), the level integrated over 180 s	2 242 241	2,
	shall be 100 dB or lower. For equipment provided	+ A	t Cit
	with a standardized connector, the unweighted	THE SUIT WILL	m, m
	level integrated over 180 s shall be no more than	74, 70, 7	AL 4
	150 mV for an analogue interface and no more	THE THE LITTER	ALTE MIT
	than -10 dBFS for a digital interface.	"MUTEL MUTE "MUTE	20,
	NOTE In case the source is known not to be music (or test	1 1 1	TEX TEX
We all	signal), the EL may be disabled.	CITED WITH WILL AND	Tr. Mr.
10.6.6	Requirements for listening devices (headphone	es, earphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	1, 10, 10, 2,	.(_
	listening device, and with the volume and sound	A TEX TEX LITES	NI SINI
	settings in the listening device (for example, built- in volume level control, additional sound features	Whi Ale Ale	20.
	like equalization, etc.) set to the combination of	and the state of	11 11
	positions that maximize the measured acoustic	LIER OLIVE MALITY	No. Mer
	output, the input voltage of the listening device	21/2 21/2	t
	when playing the fixed "programme simulation	Lit Let Ster S	TEN CLIE
	noise" as described in EN 50332-1 shall be ≥ 75 mV.	WILL MUE, MUE ME	300
	IIIV. THE STREET WITH WAY AND	· · · · · · ·	* C#
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	TER OLIEN MALTE MALL	an, an
10.6.6.2	and 27 mV or 100 dB and 150 mV.  Corded listening devices with digital input	- 10 2 x	N/A
. 0.0.0.2	With any playing device playing the fixed	et liet liet with	IN/A
	"programme simulation noise" described in EN	211, 211, 211	
	50332-1, and with the volume and sound settings	at at 1st	THE LIE
	in the listening device (for example, built-in volume	the street of	C1.



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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
whitek w	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq}$ , $\tau$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of - 10 dBFS.	Military Military Military	united whitek
10.6.6.3	Cordless listening devices	at at at a	- N/A
WILLER WALLER	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,   acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	JUNITER WHITER WHITER  WHITER WHITER WHITER  JUNITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER WHITER  WHITER	JUNITE WALTER  JUNITER  JUNITE
10.6.6.4	Measurement method	White White Whi.	N/A
NITEK JAL	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Tat .	LITER NITER IN
3	Modification to the whole document		Р



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40.		357 - 92 - 11 - 11 - 1		
The same		IEC 62368-1		" " " " " " " " " " " " " " " " " " "
Clause	Requirement – Test	The April 10	Result – Remark	Verdict

	Delis		"country" note	s in the refe	rence docume	nt according	to the following	P
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	20
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	Julia .
	.y.	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	C.E.F. WI
	ی	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	× 5
	411.	Table 13						21/2
	NETE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MITER
	SEK 3	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	N.I.E.K.
	, n	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	LEX WILL
	MUZI	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MALTE
	Tq.	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	TEX
	t	Y.4.5	Note					sh.
المال	, J.	27			AT AV		10 M	1500
	M	odification	to Clause 1					Р
NLT.	NO ele		ring note: e of certain substa ent is restricted w			MULTER WALT	e white whit	WP
	м	odification	to 4 71					Р



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1101010110011	O.: WITH 20D 10221 1011	1 age 10 01 01		
in m		IEC 62368-1		
Clause	Requirement – Test	The Mary All May	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
AND TEX WILLEY  WILLEY	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):  a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.  If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	mains	WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



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	IEC 62368	8-1	
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph:	WILL MUTE WITH MUTE MUTE	N/A

10.5.1	Add the following after the first paragraph:	N/A
Mrtier v	For RS 1 compliance is checked by measurement under the following conditions:	EL MITTER MITTER
	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.	white whi ex white
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	MULTER MULTER
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	MULTER MULTER WAS
	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.	FER WHITER WHITER
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	MILEE MALEE
TEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	TEX TEX STER
9	Modification to G.7.1	N/A
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	N/A
10	Modification to Bibliography	Р



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The Maria	Mr. Mr. M.	IEC 62368-1	TEL MITER MILETAN	Tip Music Meri
Clause	Requirement – Test	CLE MUCH MA MA	Result – Remark	Verdict

ale		201
, et	Add the following notes for the standards indicated:	P
WILLEY WI	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-331 NOTE Harmonized as EN 61643-331.	Whitek whitek
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15  ONLITE WALLES	Denmark, Finland, Norway and Sweden  To the end of the subclause the following is added:  Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."  In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A  SEE SUBSTITUTE  SUBSTITUT
4.7.3	United Kingdom  To the end of the subclause the following is added:  The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A



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- Christian	Mr. Mr. Cinc. M	IEC 62368-1	itet nitet unitet uni	TE MILL MILL
Clause	Requirement – Test	is mile my my	Result – Remark	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	White
	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.	street waters waters waters	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	es unite unite unit u	ne was
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult mi	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	united white white white	JUNE .
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	511 EX
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	MITEL WILL MILLER WILL	EK MUTIEK
	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	MULTER MILIER	Whitek o
	completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whitek wh	ing murit
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WALTER WALTER WALTER	White w
	and white white white white white	at the the there	NI EK NIVÎ
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULES WILLES WAS	IEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	WILLER MUTTER MUTTER MUTTER	- JALTEK V
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	un'il un' LIFX unlif
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	STEET STEET STEET STOLES	EX WILLEX



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0,	IEC 62368-1	in the way when	20, 20.
Clause	Requirement – Test	Result – Remark	Verdict
all's	THE THE THE THE	ALL METERS AND	The The
MALTEK MI	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STIER STIER OF	NITEK MALTEK
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	united whites whites whi	TEX WITER O
iek whiter	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.	EX WHITEK WHITEK WHITE	Auri Ex Mu
5.5.2.1	Norway	t let litt liter	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mr.	it let
ALEX AL	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILLER MILLER WALLER WA	er ler
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	of street sources sources	WALLEX MAL
	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 Myriek Murek A	MITER WAITER
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification:	THE WALTER WHITER	unite unit
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WHITEK WHITEK W	ALTE MALL
5.6.4.2.1	Ireland and United Kingdom	at at all a	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:	itt mit met me	- 11 - 11 - 11
MULI	<ul> <li>the protective current rating is taken to be 13</li> <li>this being the largest rating of fuse used in the mains plug.</li> </ul>	White white white	MUT, MUT
5.6.4.2.1	France	TER STER OUTE	N/A
	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.	WILE MULTER MULTER AND	LIEK WITEK
5.6.5.1	To the second paragraph the following is added:	ite arit and with	N/A
WALTER	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.	A MILIER MILIER MILIER	Mility Mili



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The Maria	The Alexander	IEC 62368-1	TEL OLIER WHITE WA	rie Muril Mirrie
Clause	Requirement – Test	The Marie Mr. M.	Result – Remark	Verdict

5.6.8	Norway	20, 20, 2	N/A
MULTER	To the end of the subclause the following is added:	WALTER WALTER WALTER OF	MALTER
LIEK WAS	Equipment connected with an earthed mains plug 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.	stek whitek whitek whi	ek whitek w
5.7.6	Denmark	2/1, 21, 2,	N/A
WHITE W	To the end of the subclause the following is added:  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.	Whitek whitek whitek	unite unite
5.7.6.2	Denmark	TEX SITES ONLY	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	AND THE MUTTER MUTTER	White whi
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.	THE WALLEY WALLEY WALLEY WALLEY	TEX DIFFE
	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.	ancies while ancies whi	ex whitex
	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:	ex whitek whitek whitek	White white
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILER MUTER MUTER MU	TEK UNLTEK
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator,	TEX WALTER WALTER WALTER	WALLER ON
	see EN 60728-11)"	A- 05 AV	.4"



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21,	IEC 62368-1	is were any	n. 20.
Clause	Requirement – Test	Result – Remark	Verdict
100	Mill with the the	the cities action made and	The same
untiek un	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.	WITH WIFE WIFE WIFE	MALTER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	SITES MITES WHITES	MALTEK W
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	MUSTER MUTER MUTER M	ili Ek unt UnitEk
RETE 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 medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	UNLIER WHITER WHITER WHITER	Ancie un itek van itek vaniit
5.5.4.2.3	United Kingdom	No external circuits.	N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	the arrive antick and	Wheek whi
3.3.1 and		Not directly connected to the	N/A
B.4 ALL AND LIFE AND	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	t while on the same of the sam
G.4.2	Denmark	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains while while while	JALIER V
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	TEX WHITEK WHITEK WHITEK W	16.14 . JE
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	White white white wh	MALIER



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70.	IEC 62368-1	is the way on a	200
Clause	Requirement – Test	Result – Remark	Verdict
apro	The the the the	the city with the way	11/1
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	TEX TEX STEEL WITH	MALTER
	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.	STEK WHITEK WHITEK WHITEK	WALTER WAL
	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.	MILITER WHITER WHITER WHITER	E WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX MUTER MUTER MUTER	un liek win
	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	ATER WITER WITER WITER	ir ik wnir K
	Justification: Heavy Current Regulations, Section 6c	WITE MITEL	MITEK
G.4.2	United Kingdom	Not directly connected to the	N/A
WALTE	To the end of the subclause the following is added:	mains	NIETHAL
MILITER OF	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Whitek whitek whitek whitek	se white whites a stress w
G.7.1	United Kingdom	e at at at	N/A
	To the first paragraph the following is added:	THE WITT WITT WITH WE	7/1/2
	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.	JUNITER WHITER WHITER WHITER	WALTER OUR
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et whitet whitet whitet	Trit until



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THE WALL	My Me All	IEC 62368-1	LIET INLIET WALFER WALF	Mr. Mr.
Clause	Requirement – Test	Net Mer Mr M	Result – Remark	Verdict

G.7.1	Ireland	711 12	N/A
G.7.1 WILLEY WAS	To the first paragraph the following is added:  Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	Whilek whilek whilek whilek whilek whi	IN/A SURVERY SELTERY SURVERY S
G.7.2	Ireland and United Kingdom  To the first paragraph the following is added:  A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	White white white white	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany The following requirement applies:  For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	No CRT within the equipment.	N/A  MILITER  MINITER
MULLER M	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	MILER WALTER WALTER WALTER	unlite TEX



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71/2	711 121 12	IEC 62368-1	LIFE WALTER WALTER	ren an	an.
Clause	Requirement – Test	in the man	Result – Remark	et d	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	30	<u> </u>
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



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The The	A11 A21 A1	IEC 62368-1	ITER MITTER MALITY	wer an	2/1
Clause	Requirement – Test	is any any	Result – Remark	LEX X	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy sourc	es	4	a st	P
Supply	Location (e.g.	Test conditions Parameters			ES		
Voltage	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info 2)	Class
et set	TEK STEK IN	Normal	5.0VDC	h _h	SS	DC	ES1
5VDC	Input circuit	Abnormal	Stark 10	ITER TOLITE	10 11 11 11	Nr. Alver	Mer
- Writer W	L'ER MALTER WALTE	Single fault – SC/OC	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	it Clit	STEK- IN	EX IFE	MITEK
d a	El- TEK TEK	Normal	4.2VDC	1/1 1/	SS	DC	ES1
4.2VDC	Earbud battery	Abnormal	CENT CENT	ALTER ONLY	11-17-	10 11 110	ery any
STEK WATER	- JALIER WALTER VA	Single fault – SC/OC	all.	TEX TE	LIEK	INLIES MILI	EX MUTIL
1 1	et set s	Normal	4.2VDC	Vr71/2	SS	DC	ES1
4.2VDC	Charging box	Abnormal	J <del>et</del> .	CEL TEL	NITE OF	The Will	WILLIAM
CALIFEE AIN	battery	Single fault – SC/OC	ane - un	+ 'EX- 2017	S 3	ek Citek	MITEK N

## Supplementary information:

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

Normal –Full load and no load. Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8	TABLE: Working	y voltage measu	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
the will	WALT WALL	Mur - M	* - ot	18t- 18t	LIER NIE WITE N
- X	. It let	JEH JEH	Write Bury	ing -ing	711 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Suppleme	ntary information:				

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method	······································	ISO 306 / B50	Et NITER -				
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C				
The write with me	1 - H 1H	TEK TEK NITER	antile water				
Supplementary information:							
WE WE AND AND	at at a	et the Jet	المان الثامل الماليان				

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AV 31		30.1 - 91 00 11 01		
11/2		IEC 62368-1		
Clause	Requirement – Test	Mur. M. M.	Result – Remark	Verdict

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	pression diame	eter (mm)	:	≤ 2 m	m Nite White	aner.	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression eter (mm)
# _#	All ST	E NITER MITER WALTER	21/25 Tay		7	A.	it s
Supplemen	tary informatio	n:					
- 14	TEX TEX	LIFE MITE WITH W	E. 24.	a,			t et

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
STEE WITE WALL WALL ON	~ ~ a <sub>11</sub>	-		J+ J1		J-67	NITE IN	<u> </u>
Supplementary information:								

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

5.4.4.2 TABLE: Minimum	n distance through insu	lation		N/A
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
7.t 1.t 1	TE TE	2 7	7 7	. 16 A
Supplementary information:				
*See also sub-clause 5.4.4.9	ter with my my	20 20	+ #	all the

5.4.4.9	.4.9 TABLE: Solid insulation at frequencies >30 kHz						
Insulation n	naterial	E <sub>P</sub>	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
CEE WITE	White White	4105 111		- 1 16	-	JEK NITER	-neite and
Supplemen	tary information:						
E WITE	WALL WALL	11. 11.		et et	LEK S	Et LIE	Will Will

5.4.9	TABLE: Electric strength to	ests	t tet set	N/A
Test volta	age applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functiona	alt feet the street of	is my my m		t et 18
an and	Mr. Mr. Mr.	et of the state	THE WALLE WALLE	Mrs - Mrs
Basic/sup	pplementary:	my my m	a st st	TEN TEN
- 21/2	Mr. Mr. Mr.	TE - TEK STEELING	E WILL MILL	Wer -our
Reinforce	ed: The Street With With	The Mr. Mr.	- A A	TEX SEX.
7/2	an an an an an	TER -ITER WITER WITE	-NULL MULL M	11 11



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n. Mer	an an at	IEC 62368-1	The Au
Clause	Requirement – Test	Result – Remark	Verdict

24, 25, 2, 2,		15	S. S.	N 18	, " " ( )	11 21	
Routine Tests:							
Aug my my my my		.dt .5	EN STE	- NETE	write w	Cr 7175	2/1
Supplementary information:							
in me me me	4 /	t TEX	LIFE	RETE	White white	20/2	ap.

5.5.2.2	TABLE: Stored discharge on capacitors							
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class		
JEE 15	TER MIT	White -white	Normal	Æ 1	f 10th 15	it til		
n - 10 <u>-</u>	t Tex	LIEK WIEK WY	Single fault: SC/ OC	Murr Mur.	Mrs Mrs	20 Th		

X-ca	pacitors	installed	for	testina	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)			
The Will Mr. M.		18th 17th 15	I CLITTE	while whi			
Supplementary information	on:						
WILL WALL WILL	24, 24,	at at all	THE SITE	Will Will			

5.7.4 TABLI	E: Unearthed acces	ssible parts				N/A
Location	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)	
L/N to secondary terminals	Normal	TIL TOLL	v, 7,	* A	(E)	Et -JE
	Abnormal: overload	EK WILLER W	LIER WATER ON	rie mere m	-31/2°	761x
	Single fault: SC/ OC	MITEL MINI	ek writek writ	MULTE MULT	ANT-LIT	Alut.
Supplementary info	ormation:					
SC= short circuit: (	C= open circuit	JE JE	Chi Mar	The The	2n .	

5.7.5	TABLE: Earthed access	Earthed accessible conductive part				
Supply volta	ge (V)	- who will be the the	_			
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Distri	bution System	[]TN []TT []IT				
Location		Fault Condition No in IEC  Touch current  Commen	t			



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The same	All The All	IEC 62368-1	LIET MLIET MALIET WA	The min
Clause	Requirement – Test	Marie Marie Miller	Result – Remark	Verdict

	60990 clause 6.2.2	(mA)	- 11 - 12
THE WALL WALL WAS AN	- th	TEN - TEN	alie mie mail
- the state of the state of	LIFE NITE WILL V	Vr. 71.	, t
Supplementary Information:			
, <u>,</u>	Lit Till Still Sill	in the top	7/11 22

5.8	5.8 TABLE: Backfeed safeguard in battery backed up supplies						
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
4	16th 5	it Till	William Marie Mr.	41. 1	n	A- 16	t zet
Supplemen	ntary infor	mation:					
A B	* 16th	TEN N	ite with me	24. 24.	-	1 1	at a

6.2.2	.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	
5V Input ci	rcuit	Pin + to -	5	1 1	5.5	3S	PS1	
Earbud bat	ttery	Output pin + to -	3.661	0.018	0.066	3S	PS1	
Charging battery		Output pin + to -	3.300	0.152	0.502	38	PS1	

#### Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE: Determ	ination of Arcing PIS	ir and an	70, 7,	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
TER STE	WITE WALL	mr. Mr. m.	* *	18th -18th S	est nii
Supplemen	tary information:				
Et JET	ان النام المالي	in the man	·	at at the	TEN STE

6.2.3.2 TABLE: Dete	N/A		
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	the left state with writing	UNITER WALTER WA	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



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L. Mr.	70 20 C.	IEC 62368-1	iter white white whi	in the things
Clause	Requirement – Test	Mur. M. M.	Result – Remark	Verdict

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 p	ressure lamp		at at	N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- 1	at at	the life offer	The Mer Mer	211 211	* - A
Supplemen	ntary information:				
1	et et s	Et JET RITER W	VIE AIVE AIVE	24 24	1 st

9.6 T	ABLE	: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply voltage	e (V)					201	JEK JE	* "TIE"	
Max. transmit	power	of transn	nitter (W)	RUE	Mer	mr. m	24	10	_
				eiver and contact		ver and at of 2 mm		ceiver and at ce of 5 mm	
Foreign object	cts	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Cler Till	105	The Party	<u> </u>	4 - 2			z <del>-</del> -/	E* JE	100
Supplementary	y inforr	mation:							
et der		R //		( ""				+ 11	18th 15

5.4.1.4, 9.3, B.1.5, B.2.6	nents				LIE PER
Supply voltage (V)	5V (charging case charge)	5V (charging case dischargin g)	ynlit <mark>est</mark> w Test whi	ek whitek	_
Ambient temperature during test $\mathcal{T}_{\text{amb}}$ (°C):	25.0	25.0	ر پ	764	_
Maximum measured temperature <i>T</i> of part/at:		T (°C	)		Allowed T <sub>max</sub> (°C)
Battery body of the earphones	39.6	34.3	11 L. E.	mile m	45
IC of the earphones	42.8	37.0	- J	A 10	130
PCB of the earphones	48.6	32.6	NITE INT	rs and	130
Charging case for battery	35.8	29.8		y - 184	45
Wire of Charging case	29.3	27.4	in aller	"Non	80
Enclosure for charging case inside	35.0	32.2		7-24	Ref.
Enclosure for earphones outside	31.6	28.8	440	1/15 - 1/1	48
Enclosure for charging case outside	32.8	29.7	7 <u>0</u> +	18 10	48



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Ur. AU	M	IEC 62368-1	iter uniter while whi	any and
Clause	Requirement – Test	MULL THE THE	Result – Remark	Verdict

Ambient	LIEN OLI	ER SILIE	25.0	25.0			et -et
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
The Will Mill Mill	100	411 4	2	t - 18	- 764	JEH JE	in it is and

#### Supplementary information:

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

- 1. Test 1) charger mode; test 2) discharger mode
- 2. Battery charging temperature upper limit is 45°C

B.2.5	T	TABLE: Input test									
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No		Condition/status			
5VDC	10.00	0.290	1	1.45	Life" - VIV	- m	* - 's	Powered by 5VDC with empty battery(at battery charging mode)			
4.2VDC		0.152		0.64		- 1017 - 1784	WELL	Charging box battery (Discharging mode with fully charged battery)			

## Supplementary information:

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

B.3, B.4	ABLE: Abnor	mal operatin	g and fau	ılt condit	ion tests	e miter white whi	P
Ambient tem	perature T <sub>amb</sub> (°	°C)		<i></i>	: See b	pelow	_
Power source	e for EUT: Man	ufacturer, mo	del/type,	outputrati	ng:	White white white	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	1
Speaker	SC	4.2	30min	nur.	THE THE	Speaker no voice, no chazard.	damage,no
Powered by	5VDC with emp	oty battery(at l	battery ch	arging m	ode)	24, 24, 25,	LX
Charge base B+ to P-	SC	5VDC	7h	SLITE <mark>Y</mark>	JEK WILTER	Unit shut down, no dai hazard.	naged, No
Charge base	SC SC	5VDC	10mins	(B) (S)	EST TEST	Unit shut down, no dai hazard.	maged, No
Powered by I	Li-ion Battery (I	Discharging m	node with	fully char	ged battery)	it it set	SEF S
Charge base B+ to B-	SC	4.2VDC	10min	WALTER	White and	Unit shut down, no dai hazard.	naged, No
Charge base	sc	4.2VDC	7h	unit <u>e</u> k	NITER WALTE	Unit shut down, no dai hazard.	maged, No
Supplementa	ry information:						

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

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



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La anti	Mr. Mr. All	IEC 62368-1	LIER INLIER WALTER WA	TI ME ME
Clause	Requirement – Test	Mr. M. M.	Result – Remark	Verdict

1) Supply by external DC source, 2) 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.

M.3	TABLE: Pr	otection circu	its for batterio	es provid	ed with	in the equ	uipment	Р	
Is it possible	to install the	battery in a re	everse polarity	position?.		LITER	TET WITE	_	
				C	Charging	3			
Equipment S	pecification	Voltage (V)					Current (A)		
		See table B.2.5				,	See table B.2.	5,0+	
		Battery specification							
		Non-rechargeable batteries				Rechargeal	ole batteries		
Manufacturer/type Zaoyang Gexin Electronic Technology Co., Ltd / GX 601230		Discharging	Unintentional	Chargi		g	Discharging	Reverse	
		current (A)	charging current (A)	Voltage	(V) C	urrent (A)	current (A)	charging current (A)	
		Tet (	ir <mark>anite</mark> et anitet	See table B.2.5		See table B.2.5	See table B.2.5	NITEK WALTE	
Note: The tes	sts of M.3.2 a	re applicable o	only when abov	e appropr	iate data	a is not ava	ailable.		
Specified bat	tery tempera	ature (°C)			-51/2	-40.	10-45		
Component No.	Fault condition	Charge/ discharge mo	Test time	Temp. (°C)	Currei (A)	nt Voltage	e Obs	ervation	
Battery (charge base)		Charge 7h				ur zer o	Unit shutdown immediately. Recoverable. No damaged, no hazard.		

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

M.4.2	TABLE: battery	ABLE: Charging safeguards for equipment containing a secondary lithium attery						
Maximum	specified c	harging voltag	4.2	WITE WALL	_			
Maximum specified charging current (A)					. t t.	_		
Highest specified charging temperature (°C)					LIE WALL WAS			
Lowest specified charging temperature (°C):					at at all			
Battery		Operating	Measurement		Observat	ion		



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The same	All The All	IEC 62368-1	LIET MLIET MALIET WA	The min
Clause	Requirement – Test	Marie Marie Miller	Result – Remark	Verdict

manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	
Lowest specified char	rging temperate	ure: 10°C (Bat	tery (earbuds)	) were the	
Shenzhen Jin Yu zhou Energy Co., Ltd. / JYZ450911	Normal	4.2	0.1	Battery temperature: 10°C	The battery charging current decreases
" Mer Me	Abnormal-	15 A	the state of	LIEN JIILIE	TI MUT MUT MUT
MALTER WALTER W	Single fault	NULL -OUT	70' _ V	et tiet m	TEL MILIER WALTER WALTER
Highest specified cha	rging temperat	ture: 45°C (Ba	ttery (charge b	pase))	the set set
Zaoyang Gexin Electronic Technology Co., Ltd / GX 601230	Normal	4.20	NETEK O LIEK	Battery temperature: 45°C	The battery charging circuit stop charging
/ GX 00 1230	Abnormal-	. ( <del>)  </del> . ()	EK WILLE	VIII AUT	The My My A
EX MULTER MULTER V	Single fault	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Tet is	TEK TUTEK	LITER MALTER WALTER MALTE
Lowest specified char	rging temperat	ure: 10°C (Bat	tery (earbuds)	)	at let the the
Shenzhen Jin Yu zhou Energy Co., Ltd. / JYZ450911	Normal	4.2	0.1	Battery temperature: 10°C	The battery charging current decreases
	Abnormal-	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	'r''r'	-7	70, 2,
TEL MULTE WA	Single fault	TEK MI	ek niek w	LIE WALTE	William Muric Muri Mur
Highest specified cha	rging temperat	ure: 45°C (Ba	ttery (charge b	pase))	TEL STEE WITE WITE
Zaoyang Gexin Electronic Technology Co., Ltd / GX 601230	Normal	4.20	0.001	Battery temperature: 45.0°C	The battery charging circuit stop charging
7 67 00 1200	Abnormal-	E WELL A	10. Tall	70, - 7	- et et let
is my my	Single fault	alie my	TEX WITER	Mrter Antie	while we will all the

## Supplementary information:

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

Q.1	TABLE: Circuits inte	ABLE: Circuits intended for interconnection with building wiring (LPS)  N/A					
Output Circuit	Condition	11 () ()	Time a (a)	I <sub>sc</sub> (	(A)	S (VA)	
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
et clet	LITER OLITER MITTER	Mr. Mr.	21,	70	* 2+	et .	CENT TEN
The T		at the	LITER .	NITE WILL	WILL	ence an	2/1
JEX N	IER WILLE WILLE	Tree Tree	71, 2	L /	-e*	TEK JE	LIER II



Reference No.: WTF23D10227451Y Page 66 of 67 IEC 62368-1 Clause Requirement - Test Result - Remark Verdict Supplementary Information: SC = short circuit, OC = open circuit \* Unit shutdown immediately, recoverable, no hazard. T.2, T.3, **TABLE: Steady force test** N/A T.4, T.5 Test Force Location / Thickness Material Probe Duration Observation Part (mm) (N) (s) Supplementary information: \*Test was performed on product with each source listed in table 4.1.2. T.6, T.9 **TABLE: Impact test** N/A Location/Part Observation Material Thickness (mm) Height (mm) Supplementary information: \*Test was performed on product with each source listed in table 4.1.2. T.7 **TABLE: Drop test** N/A Location/Part Height Material Thickness (mm) Observation (mm) Supplementary information: \*Test was performed on product with each source listed in table 4.1.2.

T.8 T.	ABLE: Stress	s relief test	10, 10,	a st	N/A		
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation		
_ A A	L Alt	Cler Weer M	ir wir	mer m	and the state of t		
Supplementary	information:						



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The Maria	Mr. Mr. M.	IEC 62368-1	TEL MITER MILETAN	Tip Music Meri
Clause	Requirement – Test	CLE MUCH MA MA	Result – Remark	Verdict

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

N/A	s distances	TABLE: Alternative method for determining minimum clearances distances						
Measured cl (mm)		Required cl (mm)	Peak of working voltage (V)	Clearance distanced between:				
CLIEF OF	et jiet zo	1 14 - 16t 1	nin m m	CLIEB WITH WALL	GEN C			
			·	oplementary information:	Supple			
_ (	A COM	* # # #	i. m. m.	oplementary information:	Supple			

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>	
Plastic enclosure	CHI MEI CORPORATION	PA-757(+)	HB, 80°C, Min. Thickness 1.5mm	UL 94, UL 746	UL E56070	
Charging box battery	Zaoyang Gexin Electronic Technology Co., Ltd	GX 601230	3.7V, 180mAh	IEC 62133- 2:2017	Report No.: TSZ2205027 2-P02-R01	
Earbud battery	Shenzhen Jin Yu zhou Energy Co., Ltd.	JYZ450911	3.7V, 30mAh	IEC 62133- 2:2017	JPTUV- 109898	
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GDM-C3, ILM- C3	V-0, 130°C	UL 796	UL E330731	
Alternative	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	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 Documentation**

Reference No.: WTF23D10227451Y



Photo 1



Photo 2

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# **Photo Documentation**

Reference No.: WTF23D10227451Y





Photo 3

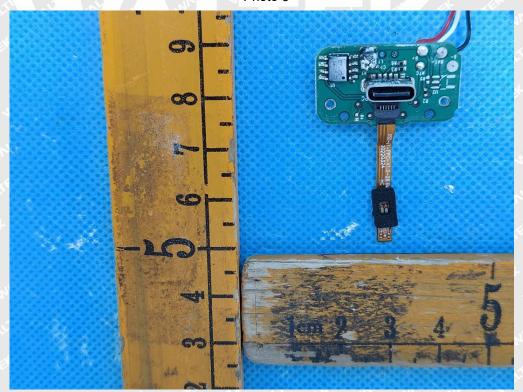


Photo 4

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# **Photo Documentation**

Reference No.: WTF23D10227451Y



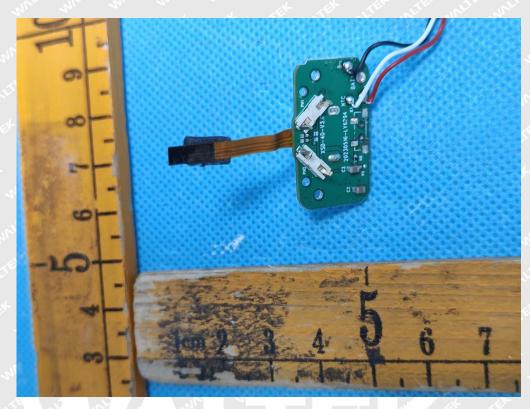


Photo 5



Photo 6

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

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