



## **TEST REPORT**

**Reference No.** ..... : WTF22D11224820Y

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

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

Hong Kong

Manufacturer..... : 117486

Address .....: : --

Product .....: Round bamboo wireless speaker

Model(s)..... : MO6890

**Total pages**.....: 70 + 4 pages of photo documentation

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample .... : 2022-11-10

**Date of Test** ..... : 2022-11-10 to 2022-11-25

Date of Issue ..... : 2022-11-25

Test Result .....: Pass

#### Remarks:

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

#### Prepared By:

#### Waltek Testing Group Co., Ltd.

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Compiled by:

Approved by:

Soap Hu/ Project Engineer

Sam Qi / Designated Reviewer



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Test item description:	Round bamb	ooo wireless speaker
Trademark:	МОВ	
Model and/or type reference:	MO6890	
Rating(s):	Input: 5V==0	0.5A MITER WATER W
Remark:  Whether parts of tests for the product h  ☐ Yes ☐ No  If Yes, list the related test items and lab		contracted to other labs:
Test items: Lab information:		
Summary of testing:	TEK JO	THE MULTINITY AND
Tests performed (name of test and te - EN IEC 62368-1: 2020+A11: 2020 The submitted samples were found to of the requirements of above specification	comply with	Testing location: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
EU Group Differences  ☑ The product fulfils the requirements	of EN IEC 62	368-1:2020+A11:2020.
Use of uncertainty of measurement f	or decisions	on conformity (decision rule) :
No decision rule is specified by the applicable limit according to the specified by the spe	e IEC standa cification in th	rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
Other: (to be specified, for exampl requirements apply)	e when requir	ed by the standard or client, or if national accreditation
OD-5014 for test equipment and applic IECEE.	calculated by ation 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 tes	st results with	nin IECEE scheme, noting that the reporting of the t necessary unless required by the test standard or

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

customer.

the testing.





#### 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:	
Product group	⊠end product □built-in component
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ 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	□UK: 13 A; Others: 16 A;  Location: □ building □ equipment □ N/A
Equipment mobility	<ul> <li>☐ movable</li> <li>☐ hand-held</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	N/A ☐ restricted access area ☐ outdoor location ☐
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)	⊠0.12kg



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POSSIBLE TEST CASE VERDICTS:	er me me me et
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	And the total the text of
Date of receipt of test item:	2022-11-10
Date (s) of performance of tests:	2022-11-10 to 2022-11-25
GENERAL REMARKS:	LIER NITER WILL WILL WILL WILL WILL
"(see appended table)" refers to a table appended to the Throughout this report a ☐ comma / ☒ point is used GENERAL PRODUCT INFORMATION:	
Product Description 1. The equipment with model MO6890isRound bambo 2. The equipment is powered by an external DC sourc 3. The equipment has one speakers anso an USB por 4. The maximum operating temperature is 25°C.	ce or Rechargeable Li-ion Battery.
Model Differences N/A	EX TEX TEX TIFE NITER WITER WITER W
Additional application considerations – (Considerations)	rations used to test a component or sub-



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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	
5	Electrically-caused fire				
Class and Energy Source	Material part Safeguards				
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S	
PS1: <15 Watt circuits	РСВ	N/A	N/A	N/A	
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A	
PS1: <15 Watt circuits	Battery	N/A	N/A	N/A	
7	Injury caused by hazardous su	ibstances			
Class and Energy Source	Body Part Sa		Safeguards	nfeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
V/A	N/A	N/A	N/A	N/A	
3	Mechanically-caused injury	<u>.</u>			
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED for indicating	Ordinary	N/A	N/A	N/A	

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#### **ENERGY SOURCE DIAGRAM**

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

 $\boxtimes$  ES  $\boxtimes$  PS  $\boxtimes$  MS  $\boxtimes$  TS  $\boxtimes$  RS

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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		Sold State of the	
IEC/EN62368-1			r an an
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P.+
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JIP P
4.1.2 MARCHARLES	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	TEX WALTER
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	TP .
4.4.3.1	General	2 24 24	Р
4.4.3.2	Steady force tests	(See Annex T.2and T.4)	P
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	the little little nitter 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
The Mark	Glass impact test (1J)	LIFE SLIFE MALIE MALLE	N/A
y	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.3,4.4.3.4, 4.4.3.8, no safeguard damaged.	WP
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	at at the text of	P.T
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P



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IEC/EN62368-		
Requirement – Test	Result – Remark	Verdict
	10000 10000 1000 1000	70
No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	L PEN
No harm by explosion during single fault conditions	(See Clause B.4)	Р
.6 Fixing of conductors	See below	Р
Fix conductors not to defeat a safeguard	at let let liet	TEP P
Compliance is checked by test	(See Clause T.2)	Р
.7 Equipment for direct insertion into mains sock	et-outlets	N/A
7.2 Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
7.3 Torque (Nm)	TEX JEX STEE MITE	N/A
.8 Equipment containing coin/button cell batterie	Sup. Mr. Am.	N/A
.8.1 General	No coin/button cell batteries used.	N/A
.8.2 Instructional safeguard	at left left light o	N/A
.8.3 Battery compartment door/cover construction	Mus Me Me M	N/A
Open torque test	y tex tex attended	N/A
.8.4.2 Stress relief test	We all and	N/A
.8.4.3 Battery replacement test	At A STIFE WITE	N/A
.8.4.4 Drop test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
.8.4.5 Impact test	TE RITE INTO WALTE	N/A
.8.4.6 Crush test		N/A
.8.5 Compliance	THE INITED WALTER WALTER WAS	N/A
30N force test with test probe		N/A
20N force test with test hook	miter white white white	N/A
9 Likelihood of fire or shock due to entry of cond	ductive object	Р
10 Component requirements	inite wait was wall	N/A
10.1 Disconnect Device	is at the test	N/A
.10.2 Switches and relays	the must must must be	N/A
ELECTRICALLY-CAUSED INJURY	A A A A A A A A A A A A A A A A A A A	Р
2 Classification and limits of electrical energy so	urces	Р
2.2 ES1, ES2 and ES3 limits	WILL MULL MULL MULL	n P
2.2.2 Steady-state voltage and current limits	(See appended table 5.2)	P
2.2.3 Capacitance limits	No such capacitors	N/A
2.2.4 Single pulse limits	No such single pulses	N/A
2.2.5 Limits for repetitive pulses	No such repetitive pulses	N/A

No such ringing signals

N/A

Ringing signals

5.2.2.6



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Clause	IEC/EN62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.2.2.7	Audio signals	my my m	N/A
5.3	Protection against electrical energy sources	LITER NITER MITTER MINI	J/P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Tet Tet Tet Stet Stet	JALIE P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	L. M. M. M.	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	TEX WHITE WHITE WHITE V	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	Р
mer in	Accessibility to outdoor equipment bare parts	SLIER WILL WILL MILL	N/A
5.3.2.2	Contact requirements	an an a set that	N/A
e, me	Test with test probe from Annex V	LIER WILL WILL WILL	s —
5.3.2.2 a)	Air gap – electric strength test potential (V)	1 1 1 1 1	N/A
5.3.2.2 b)	Air gap – distance (mm)	WHITE MALL MALL WILL W	N/A
5.3.2.3	Compliance	at at let o	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	et liter life	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The Little	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P
5.4.1.5	Pollution degrees	"MELL MUE ME ME	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	OUTER WITER WAITER WAIT	N/A
5.4.1.5.3	Thermal cycling test	and the set of	N/A
5.4.1.6	Insulation in transformers with varying dimensions	LITE WILL WALL THE	N/A
5.4.1.7	Insulation in circuits generating starting pulses	a state of	N/A
5.4.1.8	Determination of working voltage	with me, me, of	N/A
5.4.1.9	Insulating surfaces	- A At Set S	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Mus Mrs Mrs Mrs	N/A
5.4.1.10.2	Vicat test	WILL MULTE MULL MUSE	N/A
5.4.1.10.3	Ball pressure test	L St. St. St.	N/A
5.4.2	Clearances	THE WALL MALL WALL	N/A
5.4.2.1	General requirements	at the left left	N/A
July .	Clearances in circuits connected to AC Mains, Alternative method	with the the	N/A
5.4.2.2	Procedure 1 for determining clearance	alter alter again again	N/A



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	IEC/EN62368-		72, 2,
Clause	Requirement – Test	Result – Remark	Verdict
21/2 4		THE WALL MALL	-1/2 - 1/2
	Temporary overvoltage		
5.4.2.3	Procedure 2 for determining clearance	WALL MALL WALL	N/A
5.4.2.3.2.2	a.c. mains transient voltage		
5.4.2.3.2.3	d.c. mains transient voltage	Will along Any And An	_
5.4.2.3.2.4	External circuit transient voltage	at at all o	e* _
5.4.2.3.2.5	Transient voltage determined by measurement	in Mari Mar Mar	- n
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	t united whitely white	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	TITEL WITER WITER	N/A
5.4.2.6	Clearance measurement	711 20.	N/A
5.4.3	Creepage distances	LIEB WITE WILL WA	N/A
5.4.3.1	General	1 2 2 2	N/A
5.4.3.3	Material group	Ex Write Will Mill	n —
5.4.3.4	Creepage distances measurement	at at all	N/A
5.4.4	Solid insulation	WILL WILL MALL	N/A
5.4.4.1	General requirements	A JET	N/A
5.4.4.2	Minimum distance through insulation	The sure of	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	is me me me	N/A
5.4.4.5	Insulating compound forming cemented joints	* 16* 16 <sup>6</sup> 17 <sup>6</sup>	N/A
5.4.4.6	Thin sheet material	The Mr. M.	N/A
5.4.4.6.1	General requirements	TEK ITEK LITER	N/A
5.4.4.6.2	Separable thin sheet material	m, m, m	N/A
LIE WILL	Number of layers (pcs)	TEK LIEK ALTER OF	N/A
5.4.4.6.3	Non-separable thin sheet material	12 M. M. M.	N/A
White.	Number of layers (pcs)	it with outer unit	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	- Tek Tek Tek	N/A
5.4.4.6.5	Mandrel test	me me m	N/A
5.4.4.7	Solid insulation in wound components	THE LIER STEEL	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	of the the	N/A
t Tex	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	The man was an	N/A
5.4.5	Antenna terminal insulation	antic matic mail	N/A
5.4.5.1	General	1 2 2	N/A

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	IEC/EN62368-	2 41 - 12 - 2	
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.2	Voltage gurge test	The Carlot Mark	N/A
5.4.5.3	Voltage surge test	Alt Alt Out	- CV
5.4.5.3	Insulation resistance (M $\Omega$ )	Mully Aug. Mar.	N/A
THE T	Electric strength test	at at at	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	VIII. MUT. MUT. M	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TEX WALTER WALTE WAS	N/A
5.4.8	Humidity conditioning	t TEX LIEX NIE	N/A
TEK N	Relative humidity (%), temperature (°C), duration (h)	and the tex	- I
5.4.9	Electric strength test	MILL ANT. MILL	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	The Mrs. Mrs. Mr	N/A
5.4.10	Safeguards against transient voltages from external circuits	EX MITER WHITEK WHIT	N/A
5.4.10.1	Parts and circuits separated from external circuits	A ST ST	N/A
5.4.10.2	Test methods	White Ware and	N/A
5.4.10.2.1	General	The state of the s	N/A
5.4.10.2.2	Impulse test	7 July 1	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	THE WE W	N/A
5.4.11	Separation between external circuits and earth	WHITE MALLE MALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	SLIER OLIER MAITER	N/A
5.4.11.2	Requirements	The the table	N/A
it it	SPDs bridge separation between external circuit and earth	HILE MULLE MULLE M	N/A
MULT	Rated operating voltage U <sub>op</sub> (V)	EK STEK OUTER ON	_ n, ~
No.	Nominal voltage U <sub>peak</sub> (V)	20, 20, 20	_
Mulia M	Max increase due to variation ΔU <sub>sp</sub>	THE MITTER WALTER	Mrc -
CENT OF	Max increase due to ageing ΔU <sub>sa</sub>	a at at	
5.4.11.3	Test method and compliance	UNLIE WALLE WALTE	N/A
5.4.12	Insulating liquid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	χν N/A
5.4.12.1	General requirements	LICE WILL WILL W	N/A
5.4.12.2	Electric strength of an insulating liquid	at at at a	N/A
5.4.12.3	Compatibility of an insulating liquid	MULL MILL MILL	N/A
5.4.12.4	Container for insulating liquid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A

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	211	IEC/EN62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.5	Components as safeguards		N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	TEK TEK NIET MITE	N/A
5.5.2.1	General requirement	L. M. M. M.	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	IER WILLER WILLIAM	N/A
5.5.3	Transformers	t get get green	N/A
5.5.4	Optocouplers	Mr. Mr. Mr.	N/A
5.5.5	Relays	TEX STER STIER WIT	N/A
5.5.6	Resistors	Mr. M. M. M.	N/A
5.5.7	SPDs	TEX LITER NITER MITE	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at the that which	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	and and and a	N/A
211. 1	RCD rated residual operating current (mA)	MULL MULL MULL MU	_
5.6	Protective conductor	at the life	N/A
5.6.2	Requirement for protective conductors	2 46 74	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	" Mur Mr M.	N/A
5.6.3	Requirement for protective earthing conductors	A TEX STEEL STEEL STEEL STEEL	N/A
, t	Protective earthing conductor size (mm²)	me me m	_
Mrti M	Protective earthing conductor serving as a reinforced safeguard	MULTER WHITE WHITE WHI	N/A
LIER WAL	Protective earthing conductor serving as a double safeguard	LIER WITER WILLER WHITE	N/A
5.6.4	Requirements for protective bonding conductors	at the fifth	N/A
5.6.4.1	Protective bonding conductors	in whi we was	N/A
LIEK	Protective bonding conductor size (mm²)	the fit the	<u> </u>
5.6.4.2	Protective current rating (A)	mery mery mery and	N/A
5.6.5	Terminals for protective conductors	TEX TEX TEX STE	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	un un su su	N/A
* 26;	Terminal size for connecting protective bonding conductors (mm)	The Man Man Man	N/A
5.6.5.2	Corrosion	THE MILE WALL W	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	alife with well were	N/A



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.6.6.2	Test Method	the rate and any	N/A	
		10 10 50 N		
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	with the we me	N/A	
5.6.7	Reliable connection of a protective earthing conductor	TEX SITES NUTES INSTERS	N/A	
5.6.8	Functional earthing	in the second	N/A	
White	Conductor size (mm <sup>2</sup> )	TEX STEEL WITER WALTER	N/A	
- 10	Class II with functional earthing marking	70 7	N/A	
MUE.	Appliance inlet cl &cr (mm)	ALIER MITE MAIL WA	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	THE WALL WALL WALL	N/A	
5.7.2.1	Measurement of touch current	A A A A A	N/A	
5.7.2.2	Measurement of voltage	LIE WALL WALL WALL	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	EX SUFEX INSTEX SINSTEX SW	N/A	
5.7.4	Unearthed accessible parts	70 70 7	N/A	
5.7.5	Earthed accessible conductive parts	WILE WILL MULL AND	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	at Nitet Mile	N/A	
st si	Protective conductor current (mA)	7 7 7	N/A	
Were	Instructional Safeguard	The all mile while	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	t fet stat school of	N/A	
5.7.7.1	Touch current from coaxial cables	Mr. Mr. m.	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	WHITEK WHITEK WHITEK WHITE	N/A	
5.7.8	Summation of touch currents from external circuits	LIER MITER WHITER WHITER	N/A	
EK WALTEN	a) Equipment connected to earthed external circuits, current (mA)	EX STEX OUTEX SOUTH	N/A	
MITER	b) Equipment connected to unearthed external circuits, current (mA)	- 1st 1st 1st of	N/A	
5.8	Backfeed safeguard in battery backed up supplies			
neter in	Mains terminal ES	No battery used	N/A	
	Air gap (mm)	Mr. Mr. M. On.	N/A	

6	ELECTRICALLY- CAUSED FIRE	Р
6.2	Classification of PS and PIS	Р





			7	7
	5	7		١
3	6	Y		
				d

IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
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. P. WILLER	
6.2.3	Classification of potential ignition sources	See the following details.	CIEN P	
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A	
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A	
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	whi.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)	NETE P	
	Combustible materials outside fire enclosure	No such parts	N/A	
6.4	Safeguards against fire under single fault condit	tions	n P	
6.4.1	Safeguard method	Control fire spread	Р	
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	THE WALLE WALLE	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE MILTE WILLE WALTER W	N/A	
6.4.3.1	Supplementary safeguards	t at all all a	N/A	
6.4.3.2	Single Fault Conditions	white must me me	N/A	
NITER II	Special conditions for temperature limited by fuse	et let let let	N/A	
6.4.4	Control of fire spread in PS1 circuits	Mrs. Mrs. Mrs. M.	Р	
6.4.5	Control of fire spread in PS2 circuits	et let let liet liet	N/A	
6.4.5.2	Supplementary safeguards	in my my my	N/A	
6.4.6	Control of fire spread in PS3 circuits	Et TER LIER WILLIAM	N/A	
6.4.7	Separation of combustible materials from a PIS	21/2 11/2 21/2	N/A	
6.4.7.2	Separation by distance	- JEK ALTER MITER MAL	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	

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01-	IEC/EN62368-	2, 41, 70, 7,	1,7
Clause	Requirement – Test	Result – Remark	Verdict
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
<u></u>	Openings dimensions (mm)	The state of the s	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
at at	Openings dimensions (mm)	The state of the s	N/A
- Th	Flammability tests for the bottom of a fire enclosure	TER MULTER MULTER MULTER	N/A
MALTE	Instructional Safeguard	t lift with with whi	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
ines in	Openings dimensions (mm)	ALTER MITE MALTE WALTE	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	The Mr. In 2	N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	Р
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 ac	dditional equipment	Р
m. m		alter with other way	711
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	75- 27 XV 75	P
7.2	Reduction of exposure to hazardous substance	est unit whi whi	N/A
7.3	Ozone exposure	the state of the	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
THE STEEL	Personal safeguards and instructions	Let let let let	
7.5	Use of instructional safeguards and instruction	S We we we	N/A
OLITER JA	Instructional safeguard (ISO 7010)	Tet Tet STEE STEE	_
7.6	Batteries and their protection circuits	Mer My My My	Р
<u>8</u>	MEGUANICAL LY CALICES IN HISY	1 14 15 16	Р
8.2	MECHANICALLY-CAUSED INJURY  Mechanical energy source classifications	4 4 4	P
8.3	Safeguards against mechanical energy sources	THE MITTER WITH WE	P
0.0	Safeguards against parts with sharp edges and		



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01	IEC/EN62368-	7 41 27 7	T
Clause	Requirement – Test	Result – Remark	Verdict
8.4.1	Safeguards	The chief the the	Р
0.4.1	Instructional Safeguard:	MS1: Edges and corners of	P
41, 42,	ilistructional Saleguaru	enclosure	20.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	on P
8.5	Safeguards against moving parts	at all all the	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
Mr. M	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
ner me	Moving MS3 parts only accessible to skilled person	alter while while while	N/A
8.5.2	Instructional safeguard:	in in the state of	N/A
8.5.4	Special categories of equipment containing moving parts	LIE WILL MILL MILL	N/A
8.5.4.1	General	ex liex nitex uniter ou	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	241. 20. A.	N/A
8.5.4.2.1	Protection of persons in the work cell	ALTER WITE WALTE WALTE	N/A
8.5.4.2.2	Access protection override	The state of the s	N/A
8.5.4.2.2.1	Override system	The sunt sunt	N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system	The Maria Andreway a	N/A
MULIER	Maximum stopping distance from the point of activation (m)	* INCITES WHITES WHITES WHI	N/A
WALTER WAS	Space between end point and nearest fixed mechanical part (mm)	STEEL STIFF WITER SHITE	N/A
8.5.4.2.4	Endurance requirements	in the state	N/A
T WE	Mechanical system subjected to 100 000 cycles of operation	HITEL WALTER WALTE WALL	N/A
E WALLE	- Mechanical function check and visual inspection	EX LIEX NIFE MILE N	N/A
	- Cable assembly:	20, 20, 20,	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	White white white whi	N/A
8.5.4.3.1	Equipment safeguards	TER THE STIEF WITE	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	Mrs. All. An. An.	N/A
8.5.4.3.3	Disconnection from the supply	TEX SITER INTER WAITE	N/A
8.5.4.3.4	Cut type and test force (N)	20 20 A	N/A
8.5.4.3.5	Compliance	IN THE MALTE WALLE WA	N/A
8.5.5	High pressure lamps	No high pressurelamps used.	N/A
are an	Explosion test	alife with with with	N/A



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20,	IEC/EN62368-	the were with the	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
8.5.5.3	Glass particles dimensions (mm):	E. Mir Ang Mr. A	N/A
8.6		- At 51 51 S	N/A
8.6.1	Stability of equipment  General	MC4: Mana of the unit	
0.0.1	1, " 1, " 1, M,	MS1: Mass of the unit	N/A
0.00	Instructional safeguard	ur mur mur m	N/A
8.6.2	Static stability	Cot with with with	N/A
8.6.2.2	Static stability test	110, 111, 11,	N/A
8.6.2.3	Downward force test	t the site of the solution	N/A
8.6.3	Relocation stability	111, 111, 11,	N/A
Write W	Wheels diameter (mm):	STEE STEE SOUTH WALL	
	Tilt test	ch. to 2	N/A
8.6.4	Glass slide test	LIER WILLIAM WILL MUTTE	N/A
8.6.5	Horizontal force test:	3 x x	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	White While Mail My	N/A
	Test 1, additional downwards force (N):		N/A
	Test 2, number of attachment points and test force (N)	and the same	N/A
' 'nu'	Test 3 Nominal diameter (mm) and applied torque (Nm)	TE WILL WILL WILL	N/A
8.8	Handles strength	EX STEX SUFER WITER OF	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	LIER SLIER WILLIAMS	N/A
	Number of handles	711 711 7	_
Try Aller	Force applied (N)	LIER OLIER WILLER WILLER	11/2 -1
8.9	Wheels or casters attachment requirements	in the state of	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	ALTER MITE WALTE WALT	N/A
8.10.3	Cart, stand or carrier loading test	Si Si Si Si	N/A
in whi	Loading force applied (N)	LIEF WITE WALLS WALLY	N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	CONTRACT WALL OF	N/A
16	Force applied (N):	1 4 4	(E) (E)



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Me	all the state of t	CIENT NEW MEN MAN	The All	
8.10.6	Thermoplastic temperature stability	The think	N/A	
8.11	Mounting means for slide-rail mounted equ	ipment (SRME)	JN/A	
8.11.1	General	No such parts	N/A	
8.11.2	Requirements for slide rails	TER WILL MILL MALL M	N/A	
Et JE	Instructional Safeguard	i	of N/A	
8.11.3	Mechanical strength test	The the Maria Maria Maria	N/A	
8.11.3.1	Downward force test, force (N) applied	: L 11 10	N/A	
8.11.3.2	Lateral push force test	WILL MULL AND AND	N/A	
8.11.3.3	Integrity of slide rail end stops	at at at all	N/A	
8.11.4	Compliance	the with the me	N/A	
8.12	Telescoping or rod antennas	et et tet tet	N/A	
	Button/ball diameter (mm)	: No such parts	_	

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	A LET THE THE TITLE	Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	mit P w
9.3.2	Test method and compliance	See B.1.6 & B.2.3	TEN POST
9.4	Safeguards against thermal energy sources	MULL MULL MAN MAN A	Р
9.5	Requirements for safeguards		Pie
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitter	S. ITEL MITE MILE WALL ON	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	NITE INITE MINITURE WITH	N/A
9.6.3	Test method and compliance	:	N/A

10			P
10.2			Pile.
10.2.1	General classification	See below	At Part
100	Lasers:	the write with white wh	_
ANLIEK W	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low	



N/A

N/A

N/A

N/A

N/A N/A

N/A

N/A N/A

N/A

N/A P

Р

Р

No such electrical output

#### Reference No.:WTF22D11224820Y

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IEC/EN62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
The same	Will the state of	the out with all all	in an		
	et the the tip of and any	power application.	2		
الل أثنال	Image projectors:	LIER MITER MITE MIL	_		
at a	X-Ray:	the transfer of	_		
in and	Personal music player:	RUTER WITE WALTE WALTE	_		
10.3	Safeguards against laser radiation	and the second	N/A		
	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A		
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		WP.		
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	JULY P JUL		
LIEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	LIEK WIFEK WILLER WHIFEK	N/A		
H JEH	Risk group marking and location	1 1 st st	N/A		
240	Information for safe operation and installation	er wife will with w	N/A		
10.4.2	Requirements for enclosures	at at all a	N/A		
11/2 1	UV radiation exposure	WILL MULL MULL MULL	N/A		
10.4.3	Instructional safeguard:	At the state	N/A		
10.5	Safeguards against X-radiation	2 Mrs Mrs	N/A		
10.5.1	Requirements	No X-radiation	N/A		
20.	Instructional safeguard for skilled persons	The The The	_		
10.5.3	Maximum radiation (pA/kg)	t Tet Tet Steel of	· —		
10.6	Safeguards against acoustic energy sources	The 24 24 24	N/A		

10.6.1

10.6.2

10.6.3

10.6.3.1

10.6.3.2

10.6.3.3

10.6.4

10.6.5

General

Classification

General requirements

Measurement methods

Protection of persons

Acoustic output  $L_{Aeq,T}$ , dB(A).....

Unweighted RMS output voltage (mV).....:

Digital output signal (dBFS) .....

Dose-based warning and automatic decrease

30 s integrated exposure level (MEL30) .....:

Warning for MEL ≥ 100 dB(A) .....

Instructional safeguards.....:

Exposure-based warning and requirements

Requirements for dose-based systems



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IEC/EN62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
- shr	an an the telephone	The Will while out	Mr. Mr.		
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	F THE THE STEEL	mit nut w		
10.6.6.1	Corded listening devices with analogue input	Mrs. Mrs. Mrs.	N/A		
NITE MAL	Listening device input voltage (mV):	TEX LIEX NITER	N/A		
10.6.6.2	Corded listening devices with digital input	in in in	N/A		
in in the	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	SIER STEEL WITER SIN	N/A		
10.6.6.3	Cordless listening devices	Th. Th.	N/A		
WILL	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	Et LIER WITE WITE	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		whi P
B.1	General	at let let little	UTE P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	ich let stek strek ei	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
'UL	Audio Amplifiers and equipment with audio amplifiers:	white many and the	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test	(See appended table B.2.5)	P
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
JEK .	Instructional safeguard	at at at the	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	LEK LEK LIEK STEK	P
B.4.1	General	mer mer mer m	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	EK WAL
B.4.3	Blocked motor test	No motors	N/A



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- 20	IEC/EN62368-	ELL MAL MAL MILL	10 A.
Clause	Requirement – Test	Result – Remark	Verdict
<u></u>		Confirmation was all	201
B.4.4	Functional insulation	See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	UNLITE D
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	ER RELEGIANTE MALLE MA	N/A
C.2.1	Test apparatus:	and the set	N/A
C.2.2	Mounting of test samples	WILL MULL MULL AND	N/A
C.2.3	Carbon-arc light-exposure test	a at at at	N/A
C.2.4	Xenon-arc light-exposure test	HILL WILL MILL MILL	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	I MUT MUT MILL M	N/A
D.2	Antenna interface test generator	t et et set set si	N/A
D.3	Electronic pulse generator	me me me in	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio signals		N/A
TE ALLT	Maximum non-clipped output power (W):	TEX TEX LITER SLITER	_
, , , , , , , , , , , , , , , , , , ,	Rated load impedance (Ω)	The sile of	_
Mrtie	Open-circuit output voltage (V)	it lift allest outlies all	
<i>i</i>	Instructional safeguard:	71, 71, 11, 2,	<i>-</i>
E.2	Audio amplifier normal operating conditions	The state of the state of	N/A





IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
an.	Audio signal source type:	the tre will me me	7/1	
CLEEK A		Alt Alt Shape	_	
20, 20	Audio output power (W):	were the the the		
CEE OF	Audio output voltage (V)	THE THE STATE OF THE		
- V	Rated load impedance (Ω):	ur, mur mur m		
- NOTE	Requirements for temperature measurement	CH SEX SEX STEEL	N/A	
E.3	Audio amplifier abnormal operating conditions	" "h" "h" "h" "	N/A	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P	
F.1	General	at the set set	Р	
n n	Language	English	_	
F.2	Letter symbols and graphical symbols	a state of	Р	
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P	
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	F PEN	
F.3	Equipment markings	ALT MALTE	WE P	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	ILLEK P	
F.3.2	Equipment identification markings	See below for details.	Р	
F.3.2.1	Manufacturer identification	See copy of marking plate	P.	
F.3.2.2	Model identification	See copy of marking plate	AL P	
F.3.3	Equipment rating markings	See below for details.	Р	
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A	
F.3.3.2	Equipment without direct connection to mains	See above.	P	
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р	
F.3.3.4	Rated voltage:	See copy of marking plate.	Р	
F.3.3.5	Rated frequency	DC supply	Р	
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р	
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A	
F.3.4	Voltage setting device	No voltage setting device.	N/A	
F.3.5	Terminals and operating devices	21 My 10 10 10	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings:	H WALTER WALTER WALTER WA	N/A	
F.3.5.2	Switch position identification marking:	at at the ste	N/A	



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IEC/EN62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- m .	n n the state of	EL WILL WILL MILL MILL	211
F.3.5.3	Replacement fuse identification and rating markings:	tet tet tret auf	N/A
	Instructional safeguards for neutral fuse:	Mr. Mr. M. A.	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	TEX SLIEK WILLER WILLER	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	Mr. Mr. Mr. M.	N/A
F.3.6.1.1	Protective earthing conductor terminal:	THE STEE STEE STEE	N/A
F.3.6.1.2	Protective bonding conductor terminals:	m m m	N/A
F.3.6.2	Equipment class marking:	TER STER WITER WITER	N/A
F.3.6.3	Functional earthing terminal marking:	2111 201 2	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	, 4m
F.3.8	External power supply output marking:	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to thepermanence of marking test. Thelabel was rubbed with cloth soakedwith water for 15 sec. And thenagain for 15 sec, with the clothsoaked with petroleum spirit. After this test there was nodamage to the label. The markingon the label did not fade. Therewas no curling and lifting of thelabel edge. After each test, the markingremained legible.	EX WALLEY WALLEY WALLEY WALLEY
F.4	Instructions	in were mer my	P
J. Liter	a) Information prior to installation and initial use	See user manual	Р
All I	b) Equipment for use in locations where children not likely to be present	mer mer me en	N/A
in an	c) Instructions for installation and interconnection	WILL WILL MULL MULL	N/A
TEX WALTE	d) Equipment intended for use only in restricted access area	THE STEEL MITTEL MATTER	N/A
t et	e) Equipment intended to be fastened in place	10 J	N/A
AUT.	f) Instructions for audio equipment terminals	IF WILL MILL MILL M	N/A
x	g) Protective earthing used as a safeguard	20, 3	N/A



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20,	IEC/EN62368-	the we will	20, 20
Clause	Requirement – Test	Result – Remark	Verdict
ah.	All the state of	TER STEE WITE SALL	The Mr.
.nlief	h) Protective conductor current exceeding ES2 limits	t Tet Itet Test	N/A
a	i) Graphic symbols used on equipment	mr. m. m.	N/A
Willey Mar	j) Permanently connected equipment not provided with all-pole mains switch	MITER WALTER WALTER WA	N/A
IEK WALTER	k) Replaceable components or modules providing safeguard function	JEK MITEK WALTER WALT	N/A
- TEX	Equipment containing insulating liquid	and the state	N/A
21/2 1	m) Installation instructions for outdoor equipment	e until whit will	N/A
F.5	Instructional safeguards	A ST SET	N/A
G	COMPONENTS		P P
G.1	Switches	A A A	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et set set set	N/A
G.1.3	Test method and compliance	THE THE W	N/A
G.2	Relays	t tet tet tiet	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	ALT STEEL OF	N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance	by Mer Mer Mus	N/A
G.3	Protective devices	et tet jet sjet	N/A
G.3.1	Thermal cut-offs	No such component	N/A
merie m	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	UNLIEK WALTER WALTER	N/A
TILE MULT	Thermal cut-outs tested as part of the equipment as indicated in c)	STEK WITER WITER WI	N/A
G.3.1.2	Test method and compliance		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	e aliek miek miek	N/A
, Et	b) Thermal links tested as part of the equipment	70. 2	N/A
G.3.2.2	Test method and compliance	THE WIFE WALL W	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	et siret miret miret	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	the set set	N/A



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
0050	0:-1: (-1:	The wife with the	21/2	
G.3.5.2	Single faults conditions:		N/A	
G.4	Connectors	MULTE WILL MILL	N/A	
G.4.1	Spacings	No such component	N/A	
G.4.2	Mains connector configuration	WILL AUT, WIT ME	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	tex sitex writex main	N/A	
G.5	Wound components	. " " " *	N/A	
G.5.1	Wire insulation in wound components	No such component	N/A	
G.5.1.2	Protection against mechanical stress	4	N/A	
G.5.2	Endurance test	William Will Marin M	N/A	
G.5.2.1	General test requirements	The state of	N/A	
G.5.2.2	Heat run test	Wife White White Whi	N/A	
it the	Test time (days per cycle)		ş <u> </u>	
All.	Test temperature (°C):	white and mile	40, -	
G.5.2.3	Wound components supplied from the mains	and the second	N/A	
G.5.2.4	No insulation breakdown	Were Mer My	N/A	
G.5.3	Transformers	at the	N/A	
G.5.3.1	Compliance method:	1 14 14	N/A	
IEW INCIE	Position:		N/A	
	Method of protection:	in the shift	N/A	
G.5.3.2	Insulation	St TER TER WITE	N/A	
	Protection from displacement of windings:	"M" 10, 0,		
G.5.3.3	Transformer overload tests	TER STEE OUTE	N/A	
G.5.3.3.1	Test conditions	The ship of	N/A	
G.5.3.3.2	Winding temperatures	LITER OLITER SOLITER SUN	N/A	
G.5.3.3.3	Winding temperatures - alternative test method		N/A	
G.5.3.4	Transformers using FIW	TEL MITE WALTE WALT	N/A	
G.5.3.4.1	General	. I at at	N/A	
2112 2	FIW wire nominal diameter:	MALIE MALIE WALL	any -	
G.5.3.4.2	Transformers with basic insulation only	at at alt	N/A	
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	MULL MULL MULL M	N/A	
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	LIER MULTER MULTER MUL	N/A	
G.5.3.4.5	Thermal cycling test and compliance	City Liter Wiley Wiles	N/A	
G.5.3.4.6	Partial discharge test	40, 40, 40	N/A	
G.5.3.4.7	Routine test	THE THE STATE	N/A	



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	IEC/EN62368-	2 41 22 2	1
Clause	Requirement – Test	Result – Remark	Verdict
0.5.4		I WALL WELL WALL	71/2 1/2
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	WHELL HALL MALL	N/A
G.5.4.2	Motor overload test conditions	+ + + + + + + + + + + + + + + + + + +	N/A
G.5.4.3	Running overload test	will mir my m	N/A
G.5.4.4.2	Locked-rotor overload test	the second of	N/A
	Test duration (days):	in were were	
G.5.4.5	Running overload test for DC motors	t at all set	N/A
G.5.4.5.2	Tested in the unit	Mr. Mr. My	N/A
G.5.4.5.3	Alternative method	at let set	N/A
G.5.4.6	Locked-rotor overload test for DC motors	where the me a	N/A
G.5.4.6.2	Tested in the unit	ret tet tet at	N/A
	Maximum Temperature	ir me m m	N/A
G.5.4.6.3	Alternative method	et tet ster ster	N/A
G.5.4.7	Motors with capacitors	the m. m.	N/A
G.5.4.8	Three-phase motors	LIER SLIER WITE	N/A
G.5.4.9	Series motors	111 211	N/A
VII WILL	Operating voltage	Let antib w	φ,
G.6	Wire Insulation		N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	EL MITE WALL WALL	N/A
G.7.1	General requirements	No such component	N/A
an in	Туре	WILL MILL MULL A	10.
G.7.2	Cross sectional area (mm² or AWG):	at at at	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	His mili mili mi	N/A
G.7.3.2	Cord strain relief	EF WILL MILE MILE	N/A
G.7.3.2.1	Requirements	at at at	N/A
2112 21	Strain relief test force (N)	JULIE MALL MACH	N/A
G.7.3.2.2	Strain relief mechanism failure	at at at	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	MULL MULL MULL M	N/A
G.7.3.2.4	Strain relief and cord anchorage material	at the state of	N/A
G.7.4	Cord Entry	it with min min	N/A
G.7.5	Non-detachable cord bend protection	at at all sold	N/A
G.7.5.1	Requirements	met met m	N/A
G.7.5.2	Test method and compliance	A 15 15	N/A

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-20.	IEC/EN62368-	the the the	20, 2,
Clause	Requirement – Test	Result – Remark	Verdict
ale.		Ex Maria Maria	me m
	Overall diameter or minor overall dimension, <i>D</i> (mm)	at at at	
412 41	Radius of curvature after test (mm):	Music Mary Mary	_
G.7.6	Supply wiring space	TEX TEX STEEL OF	N/A
G.7.6.1	General requirements	mi me nic un	N/A
G.7.6.2	Stranded wire	CER STER STER WITH	N/A
G.7.6.2.1	Requirements	The Angelow	N/A
G.7.6.2.2	Test with 8 mm strand	t with mitty with	N/A
G.8	Varistors	10, 10, 10	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	4 × ×	N/A
G.8.2.1	General	LIE UNLIE WALLE WAS	N/A
G.8.2.2	Varistor overload test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.8.2.3	Temporary overvoltage test	MULL MULL MULL	N/A
G.9	Integrated circuit (IC) current limiters	a at at	N/A
G.9.1	Requirements	No such component	N/A
LIFE WI	IC limiter output current (max. 5A):	at the state of	UTER -
	Manufacturers' defined drift:	2 24 24	_
G.9.2	Test Program	TEN TO LINE OUT	N/A
G.9.3	Compliance	The The An	N/A
G.10	Resistors	EX TEX STEEL MITE	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	LITER OLITER WITE W	N/A
G.10.3	Resistor test	111 111	N/A
G.10.4	Voltage surge test	NITER MITE WALLE WAL	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	ER WILL MULTE WALL	N/A
G.11	Capacitors and RC units	a start	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	at at at	N/A
G.11.3	Rules for selecting capacitors	MULL MULL MULL M	N/A
G.12	Optocouplers	A A A A S	N/A
t Tex	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
an .	Type test voltage V <sub>ini,a</sub> :	THALIT WALL WALL	24 -
Cart.	Routine test voltage, V <sub>ini, b</sub> :	L A A	. L



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20,	IEC/EN62368-	ar ar ar	2. d),
Clause	Requirement – Test	Result – Remark	Verdict
The .		the write many and any	211
G.13	Printed boards		N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A
G.13.2	Uncoated printed boards	WILL MUEL MUEL MUSE	N/A
G.13.3	Coated printed boards	at let set set	N/A
G.13.4	Insulation between conductors on the same inner surface	and any any	N/A
G.13.5	Insulation between conductors on different surfaces	Metr mer mer m	N/A
iner and	Distance through insulation	ALTER MITER WALLE WALL	N/A
alt de	Number of insulation layers (pcs):	01 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	_
G.13.6	Tests on coated printed boards	LIER WALL WALL WALL	N/A
G.13.6.1	Sample preparation and preliminary inspection	s state	N/A
G.13.6.2	Test method and compliance	antic mit mit m	N/A
G.14	Coating on components terminals	L St. St. St. S	N/A
G.14.1	Requirements	mer me me	N/A
G.15	Pressurized liquid filled components	at the life	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	THE THE LITER	N/A
G.15.2.1	Hydrostatic pressure test	is the the the	N/A
G.15.2.2	Creep resistance test	of the life alies in	N/A
G.15.2.3	Tubing and fittings compatibility test	Mr. M. M.	N/A
G.15.2.4	Vibration test	TER STEEL WITER WITE	N/A
G.15.2.5	Thermal cycling test	m m m	N/A
G.15.2.6	Force test	LIER SLIER WILL WHILE	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	TER WITE MALL MALL MALL	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
21/2 21	ICX with associated circuitry tested in equipment	mitte mit whit whi	N/A
All C	ICX tested separately	A A A A A A A A A A A A A A A A A A A	N/A
G.16.2	Tests	WILL MULL MULL MULL	N/A
TEK WALTE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	TEX STEE MITES WATER	_
WALTER .	Mains voltage that impulses to be superimposed on	et stet safet natet	_
TEN.	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	of let the it	_



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- 20,	IEC/EN62368-	2 40 70 2	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
G.16.3	Capacitor discharge test	The rule of the	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1←	General	The state of	N/A
H.2	Method A		N/A
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)	Mer Mr. M. M.	_
H.3.1.2	Voltage (V)	TEX STEX SITES ONLY	_
H.3.1.3	Cadence; time (s) and voltage (V):	m, m, m, m	_
H.3.1.4	Single fault current (mA)::	LIER ALTER MITER MALIER	_
H.3.2	Tripping device and monitoring voltage	70° - 10° -	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	EX WHITE WHITE WHITE W	N/A
H.3.2.2	Tripping device	TER STEE WITE AND	N/A
H.3.2.3	Monitoring voltage (V)	20 2 X	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	The The Life Life	N/A
	Winding wire insulation	244 10 20 20 1	_
MALTER	Solid round winding wire, diameter (mm):	* ITEM STEET WITE ON	N/A
NITER OF	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	the the the state	N/A
J.2/J.3	Tests and Manufacturing	AND AND AND AND	
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	w. m. m. m.	N/A
MULL	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	m. m. m.	N/A
K.4	Interlock safeguard override	TER TER STEEL WITE	N/A
K.5	Fail-safe	Mr. M. M. M.	N/A
K.5.1	Under single fault condition	TEX STEEL MITER MITER	N/A
K.6	Mechanically operated safety interlocks	20 20 X	N/A
K.6.1	Endurance requirement	et write white w	N/A
K.6.2	Test method and compliance:	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
K.7	Interlock circuit isolation	- SITE WITE SOUTH SUPE	N/A



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~~~	IEC/EN62368-		V
Clause	Requirement – Test	Result – Remark	Verdict
- ale	The state of the state of	E. WILL WILL WILL MU	40
K.7.1	Separation distance for contact gaps & interlock circuit elements	tet tet tiet mil	N/A
	In circuit connected to mains, separation distance for contact gaps (mm)	when the state item	N/A
at all	In circuit isolated from mains, separation distance for contact gaps (mm):	his while who will	N/A
. The	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)	t lifet slifet mile onl	N/A
K.7.3	Endurance test	All All All All	N/A
K.7.4	Electric strength test	LIEF OLIEF MOLIE WALL	N/A
L	DISCONNECT DEVICES		N/A
L.1 - 500-	General requirements	LIER MITE MILL MALL	N/A
L.2	Permanently connected equipment	a state	N/A
L.3	Parts that remain energized	ET WILL MULL MULL MI	N/A
L.4	Single-phase equipment	at the literal	N/A
L.5	Three-phase equipment	WHITE WALL WALL WALL	N/A
L.6	Switches as disconnect devices	A TEN STEIN	N/A
L.7	Plugs as disconnect devices	The same same	N/A
L.8	Multiple power sources	The lift	N/A
	Instructional safeguard:	in mur mur and a	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	EIR PROTECTION CIRCUITS	Р
M.1	General requirements	The August In August	Р
M.2	Safety of batteries and their cells	TER STEEL WITE WITE	NIL P
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	NITE P
M.3	Protection circuits for batteries provided within the equipment	the sure of the	P
M.3.1	Requirements	THE WALL MALL MALL MALL MALL MALL MALL MALL	Р
M.3.2	Test method	at at at a	Р
701. 1	Overcharging of a rechargeable battery	(See appended table AnnexM)	√n P
ive, an	Excessive discharging	(See appended table AnnexM)	W. P
TE WALL	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
WALTER	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



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20,	IEC/EN62368-	The west of the sales of	a. 1/2
Clause	Requirement – Test	Result – Remark	Verdict
ah.	W The state of	it with the sale	an
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	PE WALTER
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		P
M.4.1	General	the min mun me m	Р
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.	OF PERSON
M.4.2.1	Requirements	EX LIFE WILL WILL WA	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	- P
M.4.3	Fire enclosure	V-0 fire enclosure used	JIP.
M.4.4	Drop test of equipment containing a secondary lithium battery	A STATES MATER	MITTE
M.4.4.2	Preparation and procedure for the drop test	7	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	√n P
M.4.4.6	Compliance	TEX STEE NITER WITE	P
M.5	Risk of burn due to short-circuit during carryin	g	P
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	- tek litek kitek mil	N/A
M.6	Safeguards against short-circuits	Mr. Mr. Mr. Mr.	Р
M.6.1	External and internal faults	THE STEE OUTE WITH	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.	P NITER N
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



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Clause	Requirement – Test Result – Remark	Verdict		
- 2h	Calculated hudrogen responsible vote	NI/A		
M 7.0	Calculated hydrogen generation rate:	N/A		
M.7.2	Test method and compliance	N/A		
<del>(1)</del>	Minimum air flow rate, Q (m³/h):	N/A		
M.7.3	Ventilation tests	N/A		
M.7.3.1	General	N/A		
M.7.3.2	Ventilation test – alternative 1	N/A		
- UTER	Hydrogen gas concentration (%):	N/A		
M.7.3.3	Ventilation test – alternative 2	N/A		
ALTER AS	Obtained hydrogen generation rate:	N/A		
M.7.3.4	Ventilation test – alternative 3	N/A		
LIER RLT	Hydrogen gas concentration (%):	N/A		
M.7.4	Marking:	N/A		
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte			
M.8.1	General	N/A		
M.8.2	Test method	N/A		
M.8.2.1	General	N/A		
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m³/s):	20, -		
M.8.2.3	Correction factors:	1516 - 10		
M.8.2.4	Calculation of distance d (mm):			
M.9	Preventing electrolyte spillage	N/A		
M.9.1	Protection from electrolyte spillage	N/A		
M.9.2	Tray for preventing electrolyte spillage	N/A		
M.10	Instructions to prevent reasonably foreseeable misuse	N/A		
	Instructional safeguard:	N/A		
N N	ELECTROCHEMICAL POTENTIALS	N/A		
- 10	Material(s) used			
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES			
200	Value of <i>X</i> (mm)	N/A		
P W	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	WINT P		
P.1	General See below	P		
P.2	Safeguards against entry or consequences of entry of a foreign object	P		
P.2.1	General Saleguards against entry or consequences of entry of a foreign object	P.		
P.2.2	Safeguards against entry of a foreign object	Р		



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
The same	All the state of t	Ex Will Mill My	20	
P.2.3	Safeguards against the consequences of entry of a foreign object	Tet Tet Tet MIT	N/A	
P.2.3.1	Safeguard requirements	me me	N/A	
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	ALTER WALTER WALTER WALTER	N/A	
ER WILLE	Transportable equipment with metalized plastic parts	TEK INTEK UNITEK WALTER W	N/A	
P.2.3.2	Consequence of entry test:	and the state of	N/A	
P.3	Safeguards against spillage of internal liquids	intic with with whi	N/A	
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	Write while and my	N/A	
P.3.3	Spillage safeguards	It let tet ster	N/A	
P.3.4	Compliance	The Mer My My	N/A	
P.4	Metallized coatings and adhesives securing parts		N/A	
P.4.1	General	No such construction.	N/A	
P.4.2	Tests	TEH TEH STEEL SLIT	N/A	
4.	Conditioning, T <sub>C</sub> (°C)	The Anna Anna		
NET CONT	Duration (weeks):	Let alife wife	wei-	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р	
Q.1	Limited power sources	See appended table Annex Q.1	P	
Q.1.1	Requirements	the state state with the	Р	
,t	a) Inherently limited output	My In In	N/A	
antin an	b) Impedance limited output	LIER ALTER MITER MALT	P	
	c) Regulating network limited output	Mr. Mr. Mr. At	N/A	
THE MUT	d) Overcurrent protective device limited output	LIER WHILE WHILE WHILE	N/A	
et et	e) IC current limiter complying with G.9	The state of the s	N/A	
Q.1.2	Test method and compliance	See below	Р	
NATER	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	P. P.	
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A	
, 3°,	Maximum output current (A):	MUT. MUT. MILE MILE	N/A	
ITER JOLI	Current limiting method:	THE THE THE STATE	NITE OF	
	LIMITED SHORT CIRCUIT TEST		N/A	
R	LIMITED SHOKT SIKOSH TEST			
R R.1	General	No such consideration.	N/A	



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IEC/EN62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
Mer	Mr. Mr. St. Land St. Life St. St.	EL WILL MILL ON	. an.		
R.3	Test method	the state of	N/A		
me a	Cord/cable used for test	WILL MILL MILL MILL	m,		
R.4	Compliance	and the set set	N/A		
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	WILL WILL MULL AND	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		
- Let	Samples, material:	The state of	et - (		
Mr.	Wall thickness (mm)	A INLIER WALTE WALL WA	100		
LEX.	Conditioning (°C):	L A ST SE	ı 🗻		
ing in	Test flame according to IEC 60695-11-5 with conditions as set out	antic anti wat wat	N/A		
rs. Mrc.	- Material not consumed completely	LIER CALLER MALTER MALTE.	N/A		
* 25	- Material extinguishes within 30s	70 x x	N/A		
All Co	- No burning of layer or wrapping tissue	ER WILL WILL MILL AN	N/A		
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A		
21/2 1	Samples, material	WILL MULL MULL MULL	2/1/2		
All .	Wall thickness (mm):	A LIT THE	- (1 <u>6</u> *		
12, 14,	Conditioning (°C):	The sure sure	70		
S.3	Flammability test for the bottom of a fire enclosure		N/A		
S.3.1	Mounting of samples	is the the the	N/A		
S.3.2	Test method and compliance	y tex tex stex stex in	N/A		
- O.	Mounting of samples	The Mr. Mr. M.			
White of	Wall thickness (mm)	TER CIER STEEL WITH	1/12		
S.4	Flammability classification of materials	Mr. Any Any	N/A		
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	THE WHITE WHITE WHITE	N/A		
20	Samples, material	in whi we we w	70		
JUNITER .	Wall thickness (mm)	- let let stet as	CENT CONTRACTOR		
	Conditioning (°C)	my my my my			
Tree an	MECHANICAL STRENGTH TESTS	TEK TEK TEK SITE	P		
T.1	General		Р		
T.2	Steady force test, 10 N:	(See appended table T.2)	P		
T.3	Steady force test, 30 N:	11, 21, 21,	N/A		
T.4	Steady force test, 100 N:	(See appended table T.4)	Р		
T.5	Steady force test, 250 N:	20, 20, 20,	N/A		
T.6	Enclosure impact test	TER STE WITH WITH	N/A		



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- In-	Fall test	it with mit out m	N/A	
WITER S	Swing test	The		
			N/A	
T.7	Drop test:		Р	
T.8	Stress relief test:	(See appended table T.8)	Р	
T.9	Glass Impact Test:	No such glass	N/A	
T.10	Glass fragmentation test		N/A	
WALTER	Number of particles counted:	No such glass	N/A	
T.11	Test for telescoping or rod antennas		N/A	
area an	Torque value (Nm):	No such antennas provided within the equipment.	N/A	
UENNIT	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A	
Ú.1	General		N/A	
LEX.	Instructional safeguard:	No CRT provided within the equipment.	N/A	
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A	
U.3	Protective screen		N/A	
A an	DETERMINATION OF ACCESSIBLE PARTS		N/A	
V.1	Accessible parts of equipment		N/A	
V.1.1	General	The Muria Aug Aug A	N/A	
V.1.2	Surfaces and openings tested with jointed test probes	A Writer Mriter Militer Mr	N/A	
V.1.3	Openings tested with straight unjointed test probes	1 2 2 2 1	N/A	
V.1.4	Plugs, jacks, connectors tested with blunt probe	WILL MULL MULL MULL	N/A	
V.1.5	Slot openings tested with wedge probe	it it let let	N/A	
V.1.6	Terminals tested with rigid test wire	NITE WALL WALL THE	N/A	
V.2	Accessible part criterion		N/A	
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A	
A.	Clearance	711. 711. 21.	N/A	
Y'CE JU	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A	
Y.1	General	Indoor equipment	N/A	
Y.2	Resistance to UV radiation	LIER WITE WITE WHITE	N/A	
Y.3	Resistance to corrosion	at at at	N/A	
Y.3	Resistance to corrosion	TEL WILL MULL MULL MI	N/A	
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	Tex stex stex str	N/A	



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20,	IEC/EN62368-	The wife one on	. 74, 4,
Clause	Requirement – Test	Result – Remark	Verdict
21/1/2	MI MY THE ME	The Will Marie alver	The The
Y.3.2	Test apparatus	70. 7	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	alier unlie unlie	"N/A
Y.3.4	Test procedure:	70° - 7	N/A
Y.3.5	Compliance	NITER UNLIE WALL OF	N/A
Y.4	Gaskets		N/A
Y.4.1	General	With Maria Mai	N/A
Y.4.2	Gasket tests	L A At Al	N/A
Y.4.3	Tensile strength and elongation tests	MULT MILL MILL	N/A
CIEN .	Alternative test methods	at at the	N/A
Y.4.4	Compression test	Were Mur Mur	N/A
Y.4.5	Oil resistance	at at at	N/A
Y.4.6	Securing means	Arra Mer Mer M	N/A
Y.5	Protection of equipment within an outdoor encl	osure	N/A
Y.5.1	General	The The In	N/A
Y.5.2	Protection from moisture	A TEX LIER SLIER	N/A
	Relevant tests of IEC 60529 or Y.5.3::	Mr. M. M.	N/A
Y.5.3	Water spray test	LOT OF STATE	N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust	The all mile an	N/A
Y.5.5.1	General	24, 12, 1	N/A
Y.5.5.2	IP5X equipment	THE WITE WITE WALL	N/A
Y.5.5.3	IP6X equipment	The state of	N/A
Y.6	Mechanical strength of enclosures	CALIFE SINCE WALLE	N/A
Y.6.1	General	a at at	N/A
Y.6.2	Impact test:	NITE WALL WALL ON	N/A



IEC/EN62368-1						21/2
	Clause	Requirement – Test	The Mr. In	Result – Remark	J- 1	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)	lifer white while whi wh	Р
Whitek w	Clause numbers in the cells that are shaded light grace 1EC 62368-1:2020+A11:2020. All other clause numbers in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	H PITE
ner wind feet white	Add the following annexes:  Annex ZA (normative)Normative references to intern corresponding European publications  Annex ZB (normative)Special national conditions  Annex ZC (informative)A-deviations  Annex ZD (informative)IEC and CENELEC code des	TE WATE WALLE WATER WATER	Pol Tek Marte
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	lefinitions:	N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.  Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A



IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	

Clause	Requirement – Test	Result – Remark	verdict
ale.	WI WE THE TE	LITE INLIE MILL	are are
3.3.19.3	sound exposure, E	20, 20,	N/A
	A-weighted sound pressure ( <i>p</i> ) squared and integrated over a stated period of time, <i>T</i>	antific whitek whitek w	White White.
	Note 1 to entry: The SI unit is Pa <sup>2</sup> s.	at the little	Et JEY
	T the state of the	etter intite white whi	10 20
	$E = \int_{0}^{\pi} p(t)^{2} dt$		t of a
	$E = \int p(t) dt$	CER STER WITER WITE	ane with
	O SLITER WITH MULL MAL	11, 11, 2,	1
3.3.19.4	sound exposure level, SEL	LIE MIET MEET	N/A
, d	logarithmic measure of sound exposure relative to	24, 24, 25	t
	a reference value, <i>Eo</i> , typically the 1 kHz	LET LET LIET C	LIE MITE
	threshold of hearing in humans.	ner and any	
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	at at the st	Et JEK 10
	The state of the s	The MULL MULL MULL	211, 211,
	SEI = 10 lg(E)	a st set set	CIENT LIFE
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	and the wall with	mr. m.
	THE LIFE MITTER MITTER WHITE WAS AND	1 1 1	LEX LEX
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional	ALTER OLITE MALIE M	VII. MUT
	information.		4 4
3.3.19.5	digital signal level relative to full scale, dBFS	THE MILITER AIRLY	N/A
	levels reported in dBFS are always r.m.s. Full	2 2 2 2 2	
	scale level, 0 dBFS, is the level of a dc-free 997-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code	in with my my	211.
	corresponding to negative digital full scale unused	at at at	46 JE
	of the teachers of the teachers	RITER INLIE WALL	Mr. Mr.
	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	20, 20,	* *
	level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals	TER STER STEEL O	Lite Milita
20, 0,	may reach +3,01 dBFS.	Wer Wer Mr. Mr. M.	
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources		N/A
Et SUIET	Replace 10.6 of IEC 62368-1 with the following:	A BY TEX TEX	- LI FEE MIT
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against	at let let	TER STEE
	long-term exposure to excessive sound	THE WALL WALL	20,
	pressurelevels from personal music players closely coupled to the ear are specified below.	**	et let
	Requirements for earphones and headphones	TER LIFER OLIVER ON	The Marie of
	intended for use with personal music players are	the me in m	
	also covered.	at at at a	JE
	A personal music player is a portable equipment	iter antic warr, and	The This
	intended for use by an <b>ordinary person</b> , that:	the state of	18 18
	- is designed to allow the user to listen to audio or	A STEE WIFE SOUTH	Whi.
	audiovisual content / material; and	24, 24, 24	4 1
	- uses a listening device, such as headphones or	LET TEXT TEXT	LIFE WITE
21 21	earphones that can be worn in or on or	att with white	10 .



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Clause	Requirement – Test	Result – Remark	Verdict
Ciause	Roquilomont - 165t	Nosuit – Nomain	VOIGICE
20	around the core and	were mer one one	100
	around the ears; and	1 1 1 1	LEX.
	- has a player that can be body worn (of a size	THE THE LIFE WITH	11/2
	suitable to be carried in a clothing pocket) and is	West the top the	20.
	intended for the user to walk around with while in	- L	104
	continuous use (for example, on a street, in a	LET LET LIE LIE	50° 11
	subway, at an airport, etc.).	the wife the approx	000
	EXAMPLES Portable CD players, MP3 audio players, mobile	1 1	St 4
	phones with MP3 type features, PDAs or similar equipment.	EX TEX LITER OUTE IN	" whi
	a start text text in the wind	The ship in a	
	Personal music players shall comply with the	1 1 1 1 1	16
	requirements of either 10.6.2 or 10.6.3.	TER SITE WITH MILE	aller
	NOTE 1 Protection against acoustic energy sources from	The Mr. In s.	
	telecom applications is referenced to ITU-T P.360.	a st set set	100
	No. 11 Sept. All All All All All All All All All Al	LIER NITE WALL WILL	100
	NOTE 2 It is the intention of the Committee to allow the	n. m. m.	4
	alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore,	at at at the	JEE N
	manufacturers are encouraged to implement 10.6.5 as soon as	The Calle Will War and	10
	possible.	20, 20	4
	Listening devices sold separately shall comply	of left the start will	
	with the requirements of 10.6.6.	with the war was	-2,
	These requirements are valid for music or video	720	بار ا
	mode only.	LET THE THE LITE	Call'
	The requirements do not apply to:	White White where when	10.
	– professional equipment;		25
	- professional equipment,	Et STEE LIE	STATE OF
	NOTE 3Professional equipment is equipment sold through	4 41 41 4	
	special sales channels. All products sold throughnormal		1 ×
	electronics stores are considered not to be professional	the the time the way	" are
	equipment.	and the same say	
	- hearing aid equipment and other devices for	1 1 1 1 1	- 4
	assistive listening;	the street with only	W.
	the following type of analogue personal music	The In In	
	players:	I I I I I I I I I I I I I I I I I I I	100
	• long distance radio receiver (for example, a	THE STITE WITH WALL	W
	multiband radio receiver or world band radio	The same of	
	receiver, an AM radio receiver), and	a de de de	160
	• cassette player/recorder;	LIER SLIFE WALL WILL W	- m
	. It let get the art with w		.4.
	NOTE 4 This exemption has been allowed because this	at at at all a	E
	technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be	a with they was any	24.
	extended to other technologies.	20, 7,	
	Company of the compan	THE THE THE STEE	Will be
	- a player while connected to an external amplifier	THE WAY THE THE	20,
	that does not allow the user to walk around while		15%
	in use.	THE THE LIFE WITE	1500
	For equipment that is clearly designed or intended	let the the the	
	primarily for use by children, the limits of the	· · · · · · · · · · · · · · ·	Ch.
	relevant toy standards may apply.	THE LIFE WITH WITH ME	. "au
	Tolovani toy standards may apply.	1/2 1/2 1/2 1/2	
	The relevant requirements are given in		* 5°
	EN 71-1:2011, 4.20 and the related tests methods	the stip with the	21/2
	and measurement distances apply.	m. m. w.	
10.04.0		1 1 1 1 1	N1/A
10.6.1.2	Non-ionizing radiation from radio frequencies	The the time to the	N/A



IEC/EN62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
whitek w	in the range 0 to 300 GHz  The amount of non-ionizing radiation is regulated by European Council Recommendation	White white white wh	TEX MITEX
LITER WALLER	1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.		WINE WILLER
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 whi	LIFE WALTER
	For music where the average sound pressure (long term $L_{Aeq,7}$ ) 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.	white whitek whitek	MULTER MALTER
on on the sunting of	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{\text{Aeq},7}$ ) 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.	TER WHITER WHITER WHITER	y vietek wi wint ek wint nitek
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	atter miles anties whi	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 ≤ 85 dB when playing the fixed	LEK WALTER WALTER WALTER	MUTER MUTER



	IEC/EN62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
MILIEK W LIEK MILIEK WILIEK WILIEK	"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	antiek whitek	WAY EX WAY
10.6.2.3	per 10.6.3.2.  RS2 limits (to be superseded, see 10.6.3.3)	White Write while	P P
Inter white	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, T acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.  RS3 limits  RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	JELLER WALTER WA	N/A
10.6.3	Classification of devices (new)	fire the second	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new)  RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, τacoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	ALTER WHITER WHI	N/A



#### Reference No.:WTF22D11224820Y Page 43 of 70 IEC/EN62368-1 Result - Remark Verdict Clause Requirement - Test 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. 10.6.3.3 RS2 limits (new) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. 10.6.4 Requirements for maximum sound exposure N/A 10.6.4.1 Measurement methods N/A Not such equipment All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. 10.6.4.2 **Protection of persons** Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional **safeguard** in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual.

shall be as follows:

Alternatively, the **instructional safeguard** may be given through the equipment display during use.

The elements of the instructional safeguard



20,	IEC/EN62368-1	it with the court	20. 4.
Clause	Requirement – Test	Result – Remark	Verdict
also.	White the state of	atternation with	The Me
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	dunites unites unites whi	NITER WHITEK
	wording  – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	ex multer multer multer	uni Ex unii
	An <b>equipment safeguard</b> shall prevent exposure of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary 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.	MULTER WALTER WALTER	MILIE MILIER W
	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.	THE WALTER WALTER	MILITER WILLIER
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	The Life of the South	t waiter wat
	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.	Thirty whitek whitek	MALTE MALTER
MILIEK W	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	TEX STEX STEX	LIFEY WALTER
10.6.5	Requirements for dose-based systems		N/A
10.6.5.1	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.	Not such equipment	N/A
	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.	MILIER WHITER	INTER WINTER  JUNITER  WATER  WATER



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IEC/EN62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
"IL	The the test of	The Will Will Mark	me me
	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	MULIER MULIER MULIER W	EX WALLEY
<del></del>	races, etc.		- de
	Dose-based warning and requirements  When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.  The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of	antiek mutek	N/A  N/A  N/A
10.6.5.3	hearing damage or loss.	14. 14. 12.	
Whitek wh	Exposure-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.  The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.  Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.  NOTE In case the source is known not to be music (or test	White	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
10.6.6	signal), the EL may be disabled.  Requirements for listening devices (headphone	s earnhones etc.)	N/A
, t .			<del>( ), ( )</del>
10.6.6.1	Corded listening devices with analogue input With 94 dB LAeqacoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic	Not such equipment	N/A



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IEC/EN62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
WALTEX WAL	output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.  NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	Whitek whitek whitek whitek	Whitek was	
10.6.6.2	Corded listening devices with digital input	s at at at	N/A	
JUNLIEK JUNLIEK JUNLIEK JUNLIEK JUNLIE	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq, T}$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	TEK WHITEK WHITEK WHITEK	Whitek our	
10.6.6.3	Cordless listening devices	e at at at	N/A	
Whitek wh	In cordless mode,  — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and  — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and  — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, racoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	White	MALIER WAS	
10.6.6.4	Measurement method	nuty Mur Any Any	N/A	
LIEK MIL	Measurements shall be made in accordance with EN 50332-2 as applicable.	TEX TIEX SLIEN MITER	LIE WAL	
3	Modification to the whole document		Р	



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r	CIP VINCO	Mr. Mr.		
	Clause	Requirement – Test	Result – Remark	Verdict

	Modification	10 1 71					Р
		ving note: e of certain substa nent is restricted v			MULTER WILL	e white whi	, ITE
	Modification	to Clause 1	J.	107 156		(a. 77)	Р
LIER	Y.4.5	Note					TEX
EX WALTE	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NALTEK
71/2			Table 39	and 5			MULL
	8.5.4.2.3	Note	10.2.1	Note 3 and 4	10.5.3	Note 2	+ 3
INLIEK OF	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	71.pt 1/2/
MINLIL	4					and 4	1. J.
- 24	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
EK WITE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	JALTE!
70°	Table 13						MUS
EX	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	e .
MALTER 1	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	17 EV 1911
Mer	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	g4
* 18th	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	TEX



	The state of the s	EC/EN62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Cladoo	Trademaniant Tool	Trouble 1	
21/2 1	We are the the	in with the same same	200
4.21  WINTER WILLER  WINTER WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WINTER  WI	Add the following new subclause after 4.9:  To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c.mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):  a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;  b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;  c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.  If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Not directly connected to the mains	N/A  MA  MA  MA  MA  MA  MA  MA  MA  MA
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







	IEC/EN62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
21/2	M. M. T. TER ST.	the write while	we we
10.5.1	Add the following after the first paragraph:  For RS 1 compliance is checked by measurement under the following conditions:	antifek antifek antifek	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	LITER WHITER WHITER WHITER WHITER	LIER WILLE W
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	MITER WALTER WALTER	INLIER WALTER
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	TEX WHITEK WHITEK WH	TER UNITED OUT
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	united whites
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.		EX MATER WA
t TEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		- Life ALIFE
9	Modification to G.7.1		N/A
G.7.1	Add the following note:	at at the	N/A
$n_{\nu}$ $n_{\nu}$	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in AnnexZD.	MULL MULL MULL	71.
10	Modification to Bibliography		Р



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in min	Mr. Mar M.	IEC/EN62368-1	TIEK MITEK WALTER WA	THE MILE AND IN
Clause	Requirement – Test	Will MULL MAN AN	Result – Remark	Verdict

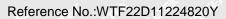
- alle	THE THE WITH ME WAS THE STEE WITH ME WAS	211 1
	Add the following notes for the standards indicated:	P
MILITA	IEC 60130-9 NOTE Harmonized as EN 60130-9.	West and
20.	IEC 60269-2 NOTE Harmonized as HD 60269-2.	
ALL TO	IEC 60309-1 NOTE Harmonized as EN 60309-1.	TEN ST
V. 24	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.	1 2/1
	LEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	1 14
THE STA	IEC 60664-5 NOTE Harmonized as EN 60664-5.	CE MILL
20	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	24
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	x 154
The state of the s	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	West of
20,	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	3
200	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	ALL S
112 11	IEC 61643-1 NOTE Harmonized as EN 61643-1.	no m
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	
164 3	IEC 61643-311 NOTE Harmonized as EN 61643-311.	TER LIFE
1. 216.	IEC 61643-321 NOTE Harmonized as EN 61643-321.	100
4 4	IEC 61643-331 NOTE Harmonized as EN 61643-331.	1 +
Con Little		See Still
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	W P
4.1.15	Denmark, Finland, Norwayand Sweden  Not directly connected to the	N/A
Mr. M.	To the end of the subclause the following is mains	ave, ave
	added:	
CENT OF	Class I pluggable equipment type A intended for	STEEL STEEL
in the	connection to other equipment or anetwork shall, if	2 Car
	safety relies on connection to reliable earthing or if	. J.
	surge suppressors are connected between the network terminals and accessible parts, have a	CLITE .
2/12	marking stating that the equipment shall be	40, 1
1	connected to an earthed <b>mains</b> socket-outlet.	Let .
Will of		Will M
20, 0	The marking text in the applicable countries shall	
all the	be as follows:	JEH JY
m. 24.	THE THE THE STEE SHIP WITH SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHI	115 211
4 4	In Denmark:	4 4
LET TIE	"Apparatetsstikpropskaltilsluttesenstikkontakt med	Ser alte
2/12	jordsom giver forbindelsetilstikproppensjord." In <b>Finland</b> : "Laite on	20,
- J.	liitettäväsuojakoskettimillavarustettuunpistorasiaan	t let
anci.	"	were a
	In Norway:	
A EL	"Apparatetmåtilkoplesjordetstikkontakt"	TEN I
15. 1	In Consider, "A management and bullength day 4:11	The The
	In <b>Sweden</b> : "Apparatenskallanslutas till	



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Clause	Requirement – Test	Result – Remark	Verdict
4.7.3 L	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	unliet whitet whitet white the test of the	N/A
5.2.2.2	Denmark  After the 2nd paragraph add the following:  A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	No high touch current measured.	N/A
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added:  For separation of the telecommunication network from earth the following is applicable:  If this insulation is solid, including insulation forming part of a component, it shall at least consist of either  • two layers of thin sheet material, each of which shall pass the electric strength test below, or  • one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.  If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition  • passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),  and  • is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.  It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005,	No such external circuits.	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A







	IEC/EN62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
unitek v	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	aintifick militer antifick	ALTER MALTER
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	LIFEX WHITEX WHITEX WHITE	
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	White white white	oner while
LIEK WALT	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	tex writer writer our	ek wai
5.5.2.1	Norway	and the state of	N/A
	After the 3rd paragraph the following is added:	IN THE WALLE WALL	Mur. Mur.
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	WALLER MATTER MATTER	MITER WALTER
5.5.6	Finland, Norwayand Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	and the same	* SEX SE
	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.	SERVINITE WALTER WALTER	murite murites
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 fuseswith higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	White whitek whitek whitek whitek whitek whitek whitek whitek	the sun trest sun to
5.6.4.2.1	Ireland and United Kingdom	24 24 24 24	N/A
untiter and	After the indent for <b>pluggable equipment type A</b> , the following is added:  - the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.	NITER WHITER WHITER WALT	ik muri



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201.	IEC/EN62368-1	it, with the mer	211. 21,
Clause	Requirement – Test	Result – Remark	Verdict
5.6.4.2.1	France After the indent for pluggable equipment type A, the following is added:  — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	united united united	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm²to 1,5 mm²in cross-sectional area.	EK WALTER WALTER	N/A
5.6.8 -	Norway  To the end of the subclause the following is added:  Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	Mitek whitek whitek wh	INTEX WALTE
5.7.6	Denmark  To the end of the subclause the following is added:  The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Whitek whitek whitek	MILITER MILITER
5.7.6.2	Denmark  To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	White white white	TITE TITE
5.7.7.1	Norway and Sweden  To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.  It is however accepted to provide the insulation external to the equipment by an adapter or an	Not such system.	N/A  Life  White  White

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

interconnection cable with galvanic isolator, which may be provided by a retailer, for example.

The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:





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1		λ		
2				

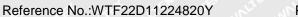
~~	IEC/EN62368-1	is one one on	20.
Clause	Requirement – Test	Result – Remark	Verdict
Mr.	all all the the	The Will Will Mile	The Alle
	"Apparatus connected to the protective earthing of the building installation through the mains	The state of	et let
	connection or through other apparatus with a	The alter out to	VII. WUT.
	connection to protective earthing –	24 24 24 14 1	
	and to a television distribution system using	at at all a	CENT CLEAN
	coaxial cable, may in some circumstances create	Lite with with wind	11/2 21
	a fire hazard. Connection to a television	57	ر اجر ا
	distribution system therefore has to be provided	ex rex rex site	
	through a device providing electrical isolation	are any	40
	below a certain frequency range (galvanic isolator,	1 1	LEY JEY
	see EN 60728-11)"	LIER NITE WITE	With Wife
	NOTE In Norway, due to regulation for CATV-installations, and	11/2 11/2 11/2	
	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric	at at let	TER LITER
	strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	WILL WILL MY AN	100
	A LER TER THE WITH MY MAN AND	0. 2.	at at
	Translation to Norwegian (the Swedish text will	LET THE LITTER OUT	10 7 10
	also be accepted in Norway):	y mer mer in	20, 1
	"Apparatersom er koplettilbeskyttelsesjord via	a to at at	- K - J
	nettpluggog/eller via annetjordtilkoplet	A NITE WILL WALL	me m
	utstyr – og er tilkoplet et koaksialbasertkabel-TV	70, 70, 7	. L
	nett, kanforårsakebrannfare.	LEK TEK STER	ALTER MATTE
	For å unngådetteskal det	Will with any	11.
	vedtilkoplingavapparatertilkabel-TV nett		at at
	installeresengalvanisk isolator	ALTE IN	The Walter To
	mellomapparatetogkabel-TV nettet."	2 20 20	
	Translation to Swedish:		A STEEL WE
	"Apparatersomärkopplad till skyddsjord via	in with the	211,
	jordatvägguttagoch/eller via		11- 16
	annanutrustningochsamtidigtärkopplad till kabel-	THE THE STEE	WILL WALL
	TV nätkanivissa fall medfőra risk főr brand.	THE THE THE	20
	Főrattundvikadettaskall vid anslutningavapparaten	at the state	THE THE
	till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet."	CHIEF WALL WALL ON	Un aller
8.5.4.2.3	United Kingdom	No external circuits.	o N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in	LIER WILL WALL WALL	Mr. M
	3 <sup>rd</sup> paragraph:	20, 20, 2,	
	they were when they	at let let let	NI TO WALL
	An emergency stop system complying with the	WE AVE AVE	20, 20,
	requirements of IEC 60204-1 and ISO 13850 is	1 1	LEN LEN
	required where there is a risk of personal injury.		-0°   .0°







	equirement – Test	Result – Remark	Verdict
me m		all with all	411.
B.4 Th To circ eq B.4 circ B, the inc eq	eland and United Kingdom the following is applicable:  protect against excessive currents and short- cuits in the primary circuit of direct plug-in quipment, tests according to Annexes B.3.1 and 4 shall be conducted using an external miniature cuit breaker complying with EN 60898-1, Type rated 32A. If the equipment does not pass ese tests, suitable protective devices shall be cluded as an integral part of the direct plug-in quipment, until the requirements of Annexes 3.1 and B.4 are met	Not directly connected to the mains	N/A
G.4.2 De To add Surrat with CL our to lind rule with Star 60:  Mato Sharesta CL equiplusta 60:  Mato Sharesta Star Ottl coil or Macoil Star Star Star Star Star Star Star Star	enmark  In the end of the subclause the following is ded:  Inpply cords of single phase appliances having a red current not exceeding 13 A shall be provided the a plug according to DS 60884-2-D1:2011.  LASS I EQUIPMENT provided with sockettlets with earth contacts or which are intended be used in locations where protection against direct contact is required according to the wiring es shall be provided with a plug in accordance the standard sheet DK 2-1a or DK 2-5a.  In single-phase equipment having a RATED DURRENT exceeding 13 A or if a polyphase uipment is provided with a supply cord with a rate of the sandard sheets DK 6-1a in DS 60884-2-D1 or EN 309-2.  In an socket outlets intended for providing power Class II apparatus with a rated current of 2,5 A all be in accordance DS 60884-2-D1:2011 andard sheet DKA 1-4a.  The current rating socket outlets shall be in mpliance with Standard Sheet DKA 1-3a DKA 1-1c.  In an socket-outlets with earth shall be in mpliance with DS 60884-2-D1:2011 andard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-1 or DK 1-7a	Not directly connected to the mains	JI N/A S  JEE JANEER  JEE JANEER  JEE JANEER  JEE JANEER  JANE





Reference N	No.:WTF22D11224820Y	Page 56 of 70		300
in the	7/11 - 121 - 2	IEC/EN62368-1	iter intit with with a	ne in
Clause	Requirement – Test	The Mar My Man	Result – Remark	Verdict

G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	uniir.
THE MULTER	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.	LIER WHITER WHITER WHITER WHITER	EX WA
G.7.1	United Kingdom	EL TEX TEX STEE	N/A
	To the first paragraph the following is added:	Will Mrs. Mrs. Mrs.	100
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	TEK WHITEK WHITEK WHITEK WHITEK	TE WE
NETER WY	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	THE MILITER WHITER A	NITE V
G.7.1	Ireland	E THE THE NAME OF	N/A
t untilet untilet v	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	MILER WHITEK WHITEK WHITEK	WALTER W
G.7.2	Ireland and United Kingdom	in my min	N/A
	To the first paragraph the following is added:  A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	A MUTER MUTER MUTER MUTER	MULLER
ZC 👉	ANNEX ZC, NATIONAL DEVIATIONS (EN)	70. 4	N/A



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IEC/EN62368-1						
Clause	Requirement – Test	Result – Remark	Verdict			
apr	M. M. J.	all all and	an.			
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.	No CRT within the equipment.	N/A			
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Whitek whitek whitek whitek	omites			
TEK MALI	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	TEX MITTER MITTER MITTER	N.TEX WA			
ZD	IEC and CENELEC CODE DESIGNATIONS FOR	FLEXIBLE CORDS (EN)	Р			



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rete unit	The The Alexander	IEC/EN62368-1	ries Alleria
Clause	Requirement – Test	Result – Remark	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible core	d 60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	•	,
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed co	rd 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 ar sheathed flexible cords	nd	H05Z1Z1-F H05Z1Z1H2-

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







1. m	Mr. Mr. A. St.	IEC/EN62368-1	he are
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy sourc	es		JE CIEN	N/A	
Supply Voltage	Location (e.g.	Test conditions		Parame	eters		ES Class	
voltage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Olass	
EN STEE	WITE WALL WA	Normal	5.16VDC	A - A	SS	JC DC	ES1	
5VDC	Input circuit	Abnormal	no Time	17. 14r. 1	10° 11	70,	20.	
White an	VI MUTE MUTE	Single fault – SC/OC	LIEK OLI	ek untiek w	LIEK.	EK WITER	MALTER.	
SEX S	IE NITER WITE	Normal	0.48Vrms	Ţ.	SS	DC	ES1	
4.2VDC	Speaker	Abnormal: Max.non-clipped output power	1.37Vrms	White white	SS	DC	ex whi	
	in Itex anitex was	Single fault – SC/ <del>OC</del> : speaker	0	SA TEA	SS	DC	MITER	
70,		Normal	4.2VDC	111 <u>111</u> 1	SS	DC	ES1	
4.2VDC	Battery	Abnormal	·	t set .	(E) (J)	A STEEL	OLITER .	
51 112 50°		Single fault – SC/OC	ure - mu	Wer we	<u></u>	TEF.	TEX (S)	

#### 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 short circuit; OC= open circuit

SC=

5.4.1.8	TABLE: Workin	g voltage measu	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
4 JIEN	WILL WILL	Will Mar 1	1 70		TEX TEXT STEEL OUT
- 14	- A	A 74 0	TER METER ON	71 11 11 11	Vr 21/2 21/2
Suppleme	ntary information:				

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Method		: ISO 306 / B50	t set -			
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)			
the cutter with wall was	74 74	at att set	LIER NITER MIT			
Supplementary information:						
THE WITH WALL WALL	Alle a	at let let	THE LIFE WITE			



- m	M	IEC/EN62368-1	LIER MALIE MALIE	ing an	in the
Clause	Requirement – Test	ALL THE TO	Result – Remark	LET S	Verdict

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						N/A
Allowed imp	oression diame	eter (mm)	:	≤ 2 m	m <sub>zh</sub>	100	_
Object/Part	No./Material	Manufacturer/trademark	rk Thickness		(mm) Test temperature (°C)		ression eter (mm)
Et WITE	White when	-Mr. Mr. M.	*	et .	784 JEK NO	at the	CET WILL
Supplemen	tary information	n:					
INLITE N	VILL MULL	24. 24. 24.	st set		IF THE LIFE	, NOTE	WILL !

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
- M. M. A.	ب	<i>*</i>	Et	JEK - OLIE	11-21	Will.	n m	70
Supplementary information:								
1) Only for frequency above 30 Complete Electric Strength volta		. (V) who	en 5.4.2.	.4 applied)	MILL A	ir. m	1 4 ×	2)

5.4.4.2	TABLE: Minimun	E: Minimum distance through insulation							
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Mea	asured DTI (mm)			
LEK WITE	- 1/2 July 5		A	The The		ite - antite			
Supplemen	tary information:								
*See also s	ub-clause 5.4.4.9	The state of the s	it let let	TEN STEE	10/276	Maria.			

5.4.4.9 TABLE: Solid	d insulation a	t frequencies	>30 kHz			N	l/A
Insulation material	E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> ('	Vpk)
- 1/1 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	- *	et- liet	ATTER WALL	-write w	in min	-7/2	211
Supplementary information	:						

5.4.9	TABLE: Electric strength tests	LIER OLIER WITE	WHIT WILL Y	N/A
Test voltag	ge applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	MULL MULL MULL AND	a de de	TEK LIFEK MITE	" WILL WILL
	EX TEX TEX DITE WAS	- mer mer m	20 20	
Basic/supp	olementary:	t at let o	TER STEE WITE	White white
,+	LEK TEK TEK STEK STEK WALL	-nr mr m	- 20, 20,	Jr
Reinforced	The man which	LEF SEF SE	RITER JAILE W	rice were an

Reference	VI~ '/V	ITF22D4	1221020
Reference	INO VV		1//40/01

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		IEC/EN62	368-1	
Clause	Requirement – Test	ave. a	Result – Remark	Verdict
illo.	M M	- L	The Life Will MALE	Mrs. Mrs.
<sub>Let</sub>		write -une	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Routine Te	ests:	* *	LIER ALTER ARLIE WALTER	mer and a
-#	the title attendance of	17 Pr 11	- T	at at
Suppleme	ntary information:			
at all	TEX LIFE OUT ONLY	Wer. On.	4, 4	et let is

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				
n n			Normal	Will - Will	ales ales	10, 10				
LIFE WALTE	MALTE	MULL MARK MA	Single fault: SC/ OC	SLIER WALTER	MITER WALTER	WALTER WALTE				

Supplementary information:

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

5.6.6 TABLE: Resistance of	protective condu	uctors and terminati	ons	N/A					
- m m	15 TEF	LIER REFER MITE	MULL MULL	mr - m					
Supplementary information:									
m n n	a dit i	TER LIE MIT	anti whi	the the					

5.7.4 TABL	E: Unearthed acces	ssible parts				N/A	
Location	Operating and	Supply	Ī	Parameters			
	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	Normal			Let -Jet	JE# (N	The Wille	
terminals	Abnormal: overload	EX MUSILES M	The Maria M	70 TO TO			
	Single fault: SC/ OC	WALTER WALT	White Mil	Mr Mur	7 <u>11</u> 7	70	
Supplementary info	ormation:						
SC= short circuit; (	OC= open circuit	anti with	21/2 20	20.	£	<i>i</i> + <i>i</i>	

5.7.5	TABLE: Earthed acces	TABLE: Earthed accessible conductive part						N/A
Supply vo	oltage (V)	"	4	A 10	+ 25	- LEX	الله المال	<u> </u>
Phase(s)		[] Singl	e Phase	e; [] Three	Phase: []	Delta [	] Wye	
Power Dis	stribution System	[] TN	[ ]TT	[]IT_	et	net-	JER JER	



La Cilia	The Angelow	IEC/EN62368-1	JEN WITE WHITE W	re me me
Clause	Requirement – Test	its with the man	Result – Remark	Verdict

Location	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comment
	TEN THE MILL	Ur. AU.	1. 10 - 2.
Metal enclosure	neutral open	0.024	ES1
Supplementary Information:			
Et THE STEE STEE STEELS	We are		it let let le

5.8 TABLE: Backfeed safeguard in battery backed up supplies									
Location Supply voltage (V) Operating and fault condition Time (s) Open-circuit voltage (V) Current (A)						ES Class			
There were	The.	1/15 1	- W	zet .	76t -776t	NITE - MITE	While M		
Supplementary information:									
in which was any one of the test still with which which which was									

6.2.2 T	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 circu	it Pin + to -	5.0	0.267	1.34	5S	PS1		
Battery	Output pin + to -	3.5	1.5	5.25	5S	PS1		
Speaker outpu	ut Output pin + to -	1.37	0.63	0.86	5S	PS1		

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.\* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1	TABLE: Determ	ination of Arcing PIS	. 24. 20.	4	N/A		
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No		
THE WITE	WALL WALL	m. 14.		TEK TEK SU	IN THE WALL		
Supplementary information:							
ET JIE	White while of	24	1 1	LET TEN TEN	SLIFE WITE		

6.2.3.2 TABLE: Deter	mination of resistive PIS	L At Att Att	N/A
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	t fet sifet milet milet	INLIER WALTER WALTER WAS	Yes (declaration)

#### Supplementary information:

All circuits are considered as resistive PIS; A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

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

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



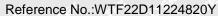
- m	M	IEC/EN62368-1	LIER MALIE MALIE	ing an	in the
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30 s after introduction of the fault.

8.5.5	TABLE: High pro	essure lamp	ek white white	Mer ale a	N/A
Lamp mani	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- Aler	14. 14. 1	- x	-TER STER OUT	WALLE WALL	mr mr
Supplemen	ntary information:				
aller a	12. 24. 24.		TER JER STE	WITE WALL	The Alex

	IADLI	=: remper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply voltag	je (V).				41/2	20, -	20. 4	4 1	_
Max. transmi	t powe	er of transn	nitter (W)		t with	CLIFE ST	iter write	WILL	_
11.010001010101101			eiver and contact		ver and at of 2 mm	with receiver and at distance of 5 mm			
Foreign obje	ects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
7 - 1	_	- <u>-</u>		10 CH 10	, UT - 17 U	10,00	7/1 7	-7	
Supplementa	ry info	rmation:							

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Ter	P P						
Supply volta	age (V)		:	5 Vdc Charged mode	Li-battery 4.2V	WILTER	MILIEK WAL	_
Ambient ter	nperature dur	ing test $T_{amb}$	(°C):	25	25		et - let	_
Maximum m	neasured tem	perature <i>T</i> of		T (°	C)		Allowed T <sub>max</sub> (°C)	
DC input ter	minal	in a	31.6	LIFE N	II THE STATE	MULTE	Ref.	
PCB near U	TEX STEEL	WILLER WAY	31.2	45.6	, t		130	
PCB near U	2	7 3	L .48	33.3	41.5	MILLE	July July	130
PCB near U	3	ALTE WALTE	Me	35.2	47.4		18th 18	130
Surface of b	attery packag	je	TEX	28.6	30.8	11 1 1	11- 11-	Ref.
Internal enc	losure	ic with	21/2 /	28.2	38.2		St Set	Ref.
Switch butto	on	t et	J. T. E. N.	27.1	27.8	in all	The same	48
External end	closure	Will a	20	26.5	29.5	d	t The	48
Temperatur winding:	e T of	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
21/2 21/2	20, .		764	3/2	JET JULE	11-27	nr - m	20, 20







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#### Supplementary information:

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

B.2.5	T	ABLE: Inp	out test					A A A A A
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC		0.267	0.5	1.34	LIEV	- INTE	WATER	Only charging Battery discharge current:0.264A
4.2VDC	,(C) \  -	0.157	ek (tek	0.66	MLTEX V	unitest.	uniz <u>e</u> k v	Bluetooth mode, 1/8 of Max.non- clipped output power Battery discharge current:0.157A
4.2VDC	711 - 	0.425	Willey	1.78	LIEK UN	TEK W	TEX WY	Bluetooth mode, 100% of Max.non- clipped output power Battery discharge current:0.425A

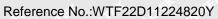
#### Supplementary information:

<sup>&</sup>lt;sup>1)</sup> Supply by external DC source, <sup>2)</sup> Measured battery cells voltage and current. The maximum measured current under rated voltage did not exceed 110% of the rated current.

B.3, B.4 T.	ABLE: Abnorr	nal operating	g and fau	It conditi	on tes	sts	I NITE OF	U Pr
Ambient temp	erature T <sub>amb</sub> (°	C)			m.	See b	elow	_
Power source	for EUT: Manu	ufacturer, mo	del/type, d	outputratio	ng:	175	MILE WALL WAL	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observatio	n
Powered by L	i-ion Battery (D	ischarging m	ode with	fully char	ged ba	ttery) (	(4.2V)	*
Speaker	Max.non- clipped	4.2VDC	1hour1 7mins	yntiek yntiek yntie ek yntie	white Tex white white	EL WALTER OF THE	PCB near U3:51.8°C Surface of battery package:32.9°C Switch button:28.2°C External enclosure:29 Ambient: 25.0°C Unit working normally No damage, no hazar No higher temperature exceeding its limit occ Speaker:1.37V*1 Battery current(A): 0.4	d. e rise curred.
One speaker	Short circuit	4.2VDC	1hour	NUTER OF	LITER EX	White TEX	PCB near U3:58.0°C Surface of battery package:33.4°C	

<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 40°C.







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Clause	Requirement – Test	Result – Remark	Verdict

1/1, 1/2,				1500	72 10 11 11 11 11 11 11 11 11 11 11 11 11	avery out the man
At 18	t STEK S		METE .	$n_{r} = n_{t}$	20	Switch button:29.6°C
WILL MUT.	Mrs. Mrs.			4	Et SET	External enclosure:29.0°C
1	A 16		LIER ON	ie and	in,	Ambient: 25.0°C
NITER WHITE	MUTTER TEX			4 WALTER	MULIEK	Speaker has no output. No damage, no hazard. Recoverable.
in while w	er miler		WALTER	WILLER	Mritik War	No higher temperature rise exceeding its limit occurred. Battery discharge 1.78→0.001A
B+ to P-	Short circuit	5VDC	7hours	NLTEK NI TEK NLT	iter white	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
B- to P-	Short circuit	5VDC	7hours	WUTTER.	writer wr	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
NTC	short circuit	4.2VDC	10mins	gunitien v	NITE WALL	Unit normal working. No damage, no hazard. Battery current(A): 0.157
U1 Pin 4-1	short circuit	4.2VDC	10mins	ek - sete	100°	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
U1 Pin 4-5	short circuit	4.2VDC	10mins	MUTER.	ountife ount	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
on C1 mix	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
C2-	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
R9	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
U3 pin 2-14	short circuit	4.2VDC	10mins	10mins	10mins	Unit normal working. No damage, no hazard. Battery current(A): 0.157
U2 pin 4-5	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0
U2 pin 5-6	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard.



in an	Mr. Mr. Mr.	IEC/EN62368-1	LIET WILLE WALLE WA	is the the
Clause	Requirement – Test	MULL THE THE	Result – Remark	Verdict

NITE WITE	t whiley whi	IER WALTER	Write.	mr. n	ik lik	Recoverable. Battery current(A): 0.157→0
Q1G-D	short circuit	4.2VDC	10mins	10mins	10mins	Unit shut down immediately. No damage, no hazard. Recoverable. Battery current(A): 0.157→0

#### Supplementary information:

- 1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pro	otection circu	its for batte	erie	es provid	ed w	vithin	the equ	ipment	Ç.	Р
Is it possible	to install the	battery in a re	verse polari	ty p	oosition?.	;		WILLEY.	The mi		_
					С	harg	ging				
Equipment S	pecification		Voltage (V	)					Current (A)		
		5Vdc						0.5A	اللاي	The Market	
					Battery	spe	cifica	tion			
		Non-recharge	able batterie	es		Rechargeable b					
Dischargi		Discharging	Unintentional		Charging				Discharging		everse
Manufacti	urer/type	current (A)	charging current (A)		Voltage (V) Current (A)		ent (A)	current (A)		rent (A)	
Shenzhen Energy techi LTD / HX 1800r	nology Co., -18650-	TER WATER.	anti <del>-</del> un IEK antik	*	WITEL W	VIII VIIIE	0.	264	0.157	Whi.	TEH WAT WAT
Note: The tes	ts of M.3.2 a	re applicable o	only when ab	ov	e appropri	ate d	data is	s not ava	ilable.		
Specified bat	tery tempera	ature (°C)		U)	111,	:	٠ <u>.</u>	- 1	10-45		
Component No.	Fault condition	Charge/ discharge mo	Test ode time		Temp. (°C)		rrent A)	Voltage (V)	Obs	ervat	ion
Battery	SC	Charge	7h	e (	704	.5	0	<b>0</b>	Unit shutd	own	o. 14

### Supplementary information:

(charge

base) (U1)

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.

immediately.

Recoverable. No damaged, no hazard.

<sup>&</sup>lt;sup>1)</sup> Supply by external DC source, <sup>2)</sup> Measured battery cell voltage and current. Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

Reference	No.:W1	F22D1	1224820Y
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ing and	The said of the said	IEC/EN62368-1	Mrs. Mrs.
Clause	Requirement – Test	Result – Remark	Verdict

M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	onta	aining a se	econdary lithium	PK
Maximum	specified o	charging voltag	je (V)		ان	4.0	20, 20,	_
Maximum	specified o	charging currer	nt (A)		:,	5	ALTER MITE	_
Highest sp	ecified cha	arging tempera	ature (°C)		U.	45	70, 20,	
Lowest sp	ecified cha	rging tempera	ture (°C)		NE Y	10	WILL WATER AND	
Battery Operating Measurement					Observation	n		
manufactu	rer/type	and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)		
Lowest spe	ecified cha	rging temperat	ure: 10°C (Bat	tery (earbuds)	)	TEK JE	RITER WITE V	W. J.
Shenzhen Bai Jiaying Technology Co., Ltd. / 602030		Normal	4.2	0.264	ter	Battery mperature: 10°C	The battery charging current decreases	
	LIER	Abnormal-	mer - we	10, 1	.71	<sub>A</sub> E	-d 18 5	* (IF
	Wiley Wiley	Single fault – (U1)	NITER WALTER	uni <sup>®</sup> un	ter	Battery mperature: 10°C	The battery chargin decreases	g current
Highest sp	ecified cha	arging tempera	ture: 45°C (Ba	ttery (charge b	ase	))		at-
Shenzhen Jiaying Te Co., Ltd. /	chnology	Normal	4.20	STEK O STEE	ter	Battery mperature: 44.5°C	The battery chargin stop charging	g circuit
	7/1	Abnormal-	/dt- 3	ER STEEL	J. V	NOTE OF	Top Mr. Mr.	20
	WALTER W	Single fault – (U1)	NATE OF THE	antiek ant	ter	Battery mperature: 44.5°C	The battery chargin stop charging	g circuit

#### Supplementary information:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Output	Condition	11 (\)()	Time (a)	I <sub>sc</sub>	(A)	S (	VA)
Output Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
JEH S	the alter outer on	in Mer	1/2 14	. 4		et let	SEP.
	4, 4	t Tet	JE# , LI	MITTE	Will Mrs	Me	24. 24
	NITE MITE WALL	2/12 2		, ,	A 10	- TEN	JEK NI
	70 7 7	TEN S	ER CLIER	White M	in with	200 2	1. 20

Supplementary Information:

SC = short circuit, OC = open circuit\* Unit shutdown immediately, recoverable, no hazard.



110	Mr. Mr. Mr.	IEC/EN62368-1	er all
Clause	Requirement – Test	Result – Remark	Verdict

A1. 2.				_ <\		The state of the s
T.2, T.3, T.4, T.5	TABLE: S	teady force te	est	Mus	20 A	THE THE SLIES MITTER MITTER
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosure top(T.4)	Plastics*	See table 4.1.2	nere on	100	5	Enclosure remained intact, no crack/opening developed
Enclosure side(T.4)	Plastics*	See table 4.1.2	TER WALT	100	5	Enclosure remained intact, no crack/ opening developed
Enclosure bottom (T.4)	Plastics*	See table 4.1.2	k TEK	100	w 5 w	Enclosure remained intact, no crack/ opening developed
Supplementa	ary informati	on:				
*Test was pe	rformed on	product with e	ach source	e listed in	table 4.1.2.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

T.6, T.9	TABLE: Impa	ict test	are, an	N/A
Location/Pa	rt Material	Thickness (mm)	Height (mm)	Observation
WALL WA	in the s	10 20 2	s dit	TEX LIFE MITTER MITTER MALE MALE
et d			7,0	
West aller	10 1 10	FAN	All the	THE WALL WILL WILL WILL WILL WILL WILL WILL
Supplement	ary information	1:		
*Test was p	erformed on pr	oduct with each sou	ırce listed in	n table 4.1.2.

T.7 T	ABLE: Drop	test		THE LITTER MITTER MILLER WALL WALL WALL
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementar	y information	:		
*Test was per	formed on pro	oduct with each sou	irce listed in	table 4.1.2.

T.8 1	ABLE: Stres	s relief test			P
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.



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Clause	Requirement – Test	Result – Remark	Verdict			

Supplementary information:

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

X TABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
**	et jet - jet wi	MULL AUT MU	74. 25			
Supplementary information:						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* TEX TEX WITH	THE THE THE	14. 2			





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Clause	Requirement – Test	Aller Aller An	Result – Remark	at A	Verdict

4.1.2	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Lithium battery	Shenzhen Bai Jiaying Technology Co., Ltd.	602030	3.7V, 300mAh	IEC 62133- 2:2017	Report No. SZES21080 0549501
Speaker	Interchangeable	Interchangeabl e	4Ω, 1W	IEC/EN 62368- 1	Tested with equipment
Plastic enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC3700	V-0, 80°C, min.thickness: 1.5mm	UL 94	UL E162823
PCB	SHENZHEN BOMIN XING ELECTRONIC CO LTD	BMX-01	V-0, 130 °C	UL94, UL796	UL E226252
Alternative	Interchangeable	Interchangeabl e	V-0, 130°C	UL 94, UL796	UL

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



## **Photo Documentation**

Reference No.: WTF22D11224820Y





Photo 1



Photo 2

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## **Photo Documentation**

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Photo 3



Photo 4

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## **Photo Documentation**

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Photo 5

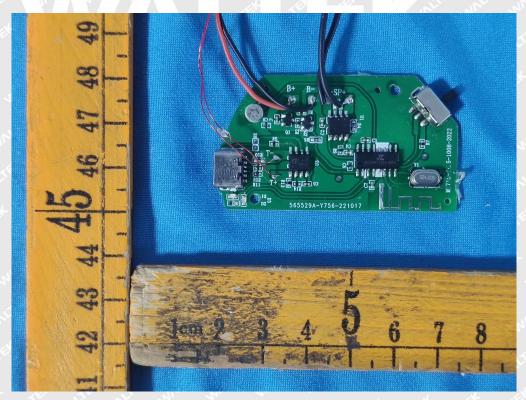


Photo 6



## **Photo Documentation**

Reference No.: WTF22D11224820Y





Photo 7



Photo 8

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

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