



# **TEST REPORT**

 Reference No......
 :
 WTF22D12246774R1Y

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

Hong Kong

Manufacturer..... : 118102

Address.....: --

Product.....: Wireless multi speaker

Model(s)..... : MO6887

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample....: 2023-11-08

Date of Test...... 2023-11-08 to 2023-11-21

**Date of Issue**..... : 2023-11-21

Test Result.....: Pass

### Remarks:

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

## Prepared By:

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Compiled by:

Almon Zhao / Project Engineer

Approved by:

Deval Qin/ Designated Reviewer

Devalgin



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Test item description	Wireless mu	ti speaker
Trademark	МОВ	TEX TEX LIEX SLIES MLTE MALTE WALL VINCIA
Model and/or type reference:	MO6887	
Rating(s):	Internal lithiu USB output:	2A (Supplied by Type C port); m-ion battery: 3.7Vdc, 2000mAh, 7.4Wh X2 5Vdc 2A put: 10W Max.
Remark:	alie andie	Who will be the little
Whether parts of tests for the product I	nave been sub	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and la	b information:	
Test items:		
Lab information:	21/27 211	the state of the state of
Summary of testing: The test based on the previous repo	ort no. WTF22	D12246774Y except for the temperature test.
Tests performed (name of test and to -EN IEC 62368-1:2020+A11:2020 The submitted samples were found to the requirements of above specification	comply with	Testing location:  No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
EU Group Differences   ☑ The product fulfils the requirements	of EN IEC 62	368-1:2020+A11:2020.
applicable limit according to the spe-	he IEC standa cification in th	on conformity (decision rule): ard, 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 examp requirements apply)	le when requir	red by the standard or client, or if national accreditation
OD-5014 for test equipment and applic IECEE. IEC Guide 115 provides guidance on	calculated by cation of test not the application	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of on of measurement uncertainty principles and applying that the reporting of the
		nin IECEE scheme, noting that the reporting of the tecessary unless required by the test standard or

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

the testing.

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### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



MOB / MO6887 PO BOX 644 6710 BP (NL) PO4100110985 Made in China

RoHS Œ



Frequency range: 2402-2480 MH z

Maximum RF power: -13.643 dB m (EIRP)

W ireless charger:

Frequency range: 100- 205 kHz W ireless Output power:10W Max.

Input: 5V-2A



### Remark:

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



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TEST ITEM PARTICULARS:	
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<ul><li>☐ UK: 13 A; Others: 16 A;</li><li>Location: ☐ building ☐ equipment</li><li>☒ N/A</li></ul>
Equipment mobility:	<ul> <li>         □ movable         □ hand-held         □ transportable         □ direct plug-in         □ stationary         □ for building-in         □ wall/ceiling-mounted         □ SRME/rack-mounted         □ other:         □ other:         □ movable         □ stationary         □ stationary         □ for building-in         □ stationary         □ other:         □ othe</li></ul>
Over voltage category (OVC):	□ OVC I       □ OVC II       □ OVC III         □ OVC IV       ⋈ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location:	<ul><li>N/A</li><li>□ restricted access area</li><li>□ outdoor location</li><li>□</li></ul>
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40°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)	⊠ 0.26kg



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POSSIBLE TEST CASE VERDICTS:	AND AND AND AND AND
- 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:	per un un de le le
Date of receipt of test item	: See cover page
Date (s) of performance of tests	: See cover page
GENERAL REMARKS:	L ITES STEEL NITE WITE WALL WALL WALL WALL WALL WALL WALL WAL
"(see appended table)" refers to a table appended Throughout this report a ☐ comma / ☒ point GENERAL PRODUCT INFORMATION:	
external power supply or by internal lithium ion b	temperature is 40°C. The specified altitude is up to and
Model Differences N/A	TIEK WIEK WIFEK WHITEK WHITEK WHITEK WHI
	siderations used t



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Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part Safeguards				
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All circuit	Ordinary	N/A	N/A	N/A	
3	Electrically-caused fire	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	
PS2: >15 Watt circuits, <100 Watt circuits (Lithium battery output)	Enclosure	See 6.3	See 6.4.5 and 6.4.8	N/A	
PS1: <15 Watt circuits	PCB	N/A	N/A	N/A	
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A	
7	Injury caused by hazardou	s substances			
Class and Energy Source	Body Part		Safeguards	afeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A	N/A	N/A	N/A	N/A	
3	Mechanically-caused injury	1			
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	
rS1: 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	

# ENERGY SOURCE DIAGRAM Indicate which energy sources are included in the energy source diagram. Insert diagram below ES PS MS TS RS See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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

· m.	OFNEDAL DEGLIDENENTS	The sale of the sale	20,
4	GENERAL REQUIREMENTS	41	P -
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	√n P
4.1.2 mil	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	INCE POW TEX WAS WASTER
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	SIL P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	P
4.4.3.1	General	2 10 10 10	Р
4.4.3.2	Steady force tests	(See Annex T.2 and T.5)	ITE PART
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	Р
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
ir, Mrr.	Glass impact test (1J)	LIER WITER WHILE WHILE W	N/A
et et	Push/pull test (10 N)	or the state of	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After test, no safeguard damaged.	WP P
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	W. M. M. W.	P
4.5.1	General White white white white white	No explosion occurs during normal/abnormal operation and single fault conditions	P <sup>LA</sup>
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	A. B



N/A

N/A

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale.	M An All Comments	The City Will May A	in an	
<i>.</i> +	condition	10, 2,	- t - ct	
	No harm by explosion during single fault conditions	(See Clause B.4)	WP W	
4.6	Fixing of conductors	See below	P ni	
	Fix conductors not to defeat a safeguard	ave me me m	Р	
ier wite	Compliance is checked by test	(See Clause T.2)	P	
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A	
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A	
4.7.3	Torque (Nm)	m m	N/A	
4.8	Equipment containing coin/button cell batterie	s the the time	N/A	

4.7.3	Torque (Nm)		N/A
4.8	Equipment containing coin/button cell batter	ies the street with white	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	"11 21 21 21	N/A
4.8.3	Battery compartment door/cover construction	LEK LIEK NITER WITER W	N/A
	Open torque test	u, m, m,	N/A
4.8.4.2	Stress relief test	TEX LITER NITER MILE WALT	N/A
4.8.4.3	Battery replacement test	The state of the s	N/A
4.8.4.4	Drop test	INLIE WALL	N/A
4.8.4.5	Impact test	- 1 + 1 t	N/A
4.8.4.6	Crush test	IN THE WALL WALL WILL W	N/A
4.8.5	Compliance	and the set of	N/A
Me	30N force test with test probe	lite antitionality and and	N/A
TEX	20N force test with test hook	a st st st st	N/A
4.9	Likelihood of fire or shock due to entry of co	nductive object	Р
4.10	Component requirements	at the text	N/A

5	ELECTRICALLY-CAUSED INJURY  Classification and limits of electrical energy sources		P
5.2			Р
5.2.2	ES1, ES2 and ES3 limits	at at the of	P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	TEX TEX STEEL OUT	N/A

Disconnect Device

Switches and relays

4.10.1

4.10.2



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5 3	Protection against electrical energ	av sources	P

Clause	rveduirement – rest	Tresuit – Iremark	Verdict
5.3	Protection against electrical energy sources	in min me me	P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	WALTER WALTER WALTER WALT	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TER TER LIFE NUTER	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	in an an an	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	EX WALTE
ot .	Accessibility to outdoor equipment bare parts	1911 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.3.2.2	Contact requirements	STEE WITE WITE SUNT	N/A
et e	Test with test probe from Annex V	all all the	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIER WILL WALL WALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	1 1 1	N/A
5.3.2.3	Compliance	ET WILL WILL MIN M	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	WILL MULL MULL MULL	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 sure sure	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	e of the contract of	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	white white white whi	N/A
5.4.1.5.3	Thermal cycling test	CHIEF WILL WILL WILL	N/A
5.4.1.6	Insulation in transformers with varying dimensions	The state of	N/A
5.4.1.7	Insulation in circuits generating starting pulses	ALTER MILE WALL WALL	N/A
5.4.1.8	Determination of working voltage	1 A St St	N/A
5.4.1.9	Insulating surfaces	THE WALL WALL WALL ON	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	- NIEK WILEK MILEK WIL	N/A
5.4.1.10.2	Vicat test	The state of	N/A
5.4.1.10.3	Ball pressure test	MITE WALL WALL WALL	N/A
5.4.2	Clearances	a de de de	N/A
5.4.2.1	General requirements	LIE MILL MILL WILL .	N/A
Y WALTER	Clearances in circuits connected to AC Mains, Alternative method	et outet milet muret om	N/A
5.4.2.2	Procedure 1 for determining clearance	20, 20,	N/A
are ar	Temporary overvoltage	alter which while while	_



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Clause	Requirement – Test	Result – Remark	Verdict
Oldado	Trequirement Test	Troduit Tromain	Volunt
5.4.2.3	Procedure 2 for determining clearance	11, 11, 20,	N/A
5.4.2.3.2.2	a.c. mains transient voltage	SLIFE WITE WILLIAM	whi -
5.4.2.3.2.3	d.c. mains transient voltage	41 41	
5.4.2.3.2.4	External circuit transient voltage	WILL WILL WALL A	V <sub>1</sub> _
5.4.2.3.2.5	Transient voltage determined by measurement		et –
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	it with mit my	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	WHITE MALIE WALL	N/A
5.4.2.6	Clearance measurement	TER STEE WITE	N/A
5.4.3	Creepage distances	711. 211. 21.	N/A
5.4.3.1	General	LIER OLIER WIFE AND	N/A
5.4.3.3	Material group	, , , , , , , , , , , , , , , , , , ,	<i>d</i> –
5.4.3.4	Creepage distances measurement	ET WILL WALLE WALL	N/A
5.4.4	Solid insulation	at the set	N/A
5.4.4.1	General requirements	WILL MULL MULL	N/A
5.4.4.2	Minimum distance through insulation	A A A	N/A
5.4.4.3	Insulating compound forming solid insulation	The same of	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	in me me	N/A
5.4.4.6	Thin sheet material	of the text of	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LIES NITES	N/A
. L. D	Number of layers (pcs)	me me m	N/A
5.4.4.6.3	Non-separable thin sheet material	TEX TIES OUTER OF	N/A
x st	Number of layers (pcs)	L 20 20 20 20	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	IEK WALTER WALTER WAL	N/A
5.4.4.6.5	Mandrel test	- TEX LIEX LIES	N/A
5.4.4.7	Solid insulation in wound components	Mr. M. M.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	WALTER WALTER WALTER	N/A
TEX WALLEY	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	LIEK MILEK MILIEK MI	N/A
5.4.5	Antenna terminal insulation	a at at a	+ N/A
5.4.5.1	General	WALL MULL MULL	N/A
5.4.5.2	Voltage surge test	1 4 3	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.3	Insulation resistance (M $\Omega$ )	They were my	N/A
0.4.0.0	Electric strength test	764 (154 A1754	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	et let let	N/A
5.4.7	Tests for semiconductor components and for cemented joints	in the second	N/A
5.4.8	Humidity conditioning	it must meet me	N/A
WALTER	Relative humidity (%), temperature (°C), duration (h)	* WILLER MULTER MULTE	WINE -
5.4.9	Electric strength test	at at let	N/A
5.4.9.1	Test procedure for type test of solid insulation	Write Mr. Mr.	N/A
5.4.9.2	Test procedure for routine test	et set set	N/A
5.4.10	Safeguards against transient voltages from external circuits	it with my m	N/A
5.4.10.1	Parts and circuits separated from external circuits	er while must must	N/A
5.4.10.2	Test methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.10.2.1	General	WELL MULL AUT	N/A
5.4.10.2.2	Impulse test	it itel	N/A
5.4.10.2.3	Steady-state test	2 2	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TE WHITE WHITE WA	N/A
5.4.11	Separation between external circuits and earth	e de de d	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	Mure Mer Me	N/A
5.4.11.2	Requirements	MITE WALLE	N/A
LIFE'Y MALIF	SPDs bridge separation between external circuit and earth	TEL STEE STEEL	N/A
at at	Rated operating voltage U <sub>op</sub> (V)	1 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,t _
MULL	Nominal voltage U <sub>peak</sub> (V)	IEK MITER WITE WAS	in —
TEK.	Max increase due to variation ΔU <sub>sp</sub>	The state of	<u> </u>
21/2 21	Max increase due to ageing ΔU <sub>sa</sub>	White White White	Mur -
5.4.11.3	Test method and compliance	A st st	N/A
5.4.12	Insulating liquid	WILL MULL WALL	N/A
5.4.12.1	General requirements	at the left	N/A
5.4.12.2	Electric strength of an insulating liquid	The Mar and an	N/A
5.4.12.3	Compatibility of an insulating liquid	at let let is	N/A
5.4.12.4	Container for insulating liquid	Mer. Mer. Mr.	N/A
5.5	Components as safeguards	- At At All	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
5.5.1	General	No such components as safeguards.	N/A	
5.5.2	Capacitors and RC units	any any any	N/A	
5.5.2.1	General requirement	TEX TEX NITER MIT	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	of the text step	N/A	
5.5.3	Transformers	in mer mer m	N/A	
5.5.4	Optocouplers	t let the little	N/A	
5.5.5	Relays	The Me Me	N/A	
5.5.6	Resistors	TEX LIET OLITER IN	N/A	
5.5.7	SPDs	me me me	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIER WHITER WHITER WHITE	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	EX MILIER WALTER	N/A	
JEX	RCD rated residual operating current (mA)	A AT AT	<u> </u>	
5.6	Protective conductor	WELL MUT MUT M	N/A	
5.6.2	Requirement for protective conductors	at the st	N/A	
5.6.2.1	General requirements	Class III equipment	N/A	
5.6.2.2	Colour of insulation	THE THE LITTE STIFF	N/A	
5.6.3	Requirement for protective earthing conductors	es me me m	N/A	
MILTER	Protective earthing conductor size (mm²)	et the tiet while.		
SLITEK I	Protective earthing conductor serving as a reinforced safeguard	The American	N/A	
164 7	Protective earthing conductor serving as a double safeguard	and with any and	N/A	
5.6.4	Requirements for protective bonding conductors	RITE WALTE WALL WALL	N/A	
5.6.4.1	Protective bonding conductors	a st set set	N/A	
an.	Protective bonding conductor size (mm²)	The Mary Mary	2 <sub>0</sub>	
5.6.4.2	Protective current rating (A)	- At let let	N/A	
5.6.5	Terminals for protective conductors	Mer Mer Mer A	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	UNLIES WALTES WALTES WAL	N/A	
TEX WALTE	Terminal size for connecting protective bonding conductors (mm)	TEL NIEK WIEK WAITE	N/A	
5.6.5.2	Corrosion	70 A X	N/A	
5.6.6	Resistance of the protective bonding system	er with antier antier	N/A	
5.6.6.1	Requirements	1 x x x	N/A	
5.6.6.2	Test Method	NITE MITE WILL AND	N/A	



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	Mill har My M	N/A
5.6.7	Reliable connection of a protective earthing conductor	WHITE WHITE WHITE WHI	N/A
5.6.8	Functional earthing	TEX TEX LIFE OLITER	N/A
	Conductor size (mm²)	We are and	N/A
MULTER	Class II with functional earthing marking	TEX LIER NITER WITER	N/A
	Appliance inlet cl &cr (mm)		N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	All A A	N/A
5.7.2.1	Measurement of touch current	Will Write Write Mr.	N/A
5.7.2.2	Measurement of voltage	a st at set	N/A
5.7.3	Equipment set-up, supply connections and earth connections	LIE MILL WILL WILL	N/A
5.7.4	Unearthed accessible parts	EX NITER WITE WITE W	N/A
5.7.5	Earthed accessible conductive parts	The second second	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White Mile Mail Mi	N/A
NETE WAS	Protective conductor current (mA)	THE MITTER SMITTER	N/A
st si	Instructional Safeguard	1 1 1 1	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	TE WHITE WALLS WHITE	N/A
5.7.7.1	Touch current from coaxial cables	t tet tet stet steet in	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	and the text of	N/A
5.7.8	Summation of touch currents from external circuits	antit and any and	N/A
74 - 24	a) Equipment connected to earthed external circuits, current (mA)	NITE WALL WALL WALL	N/A
MULL	b) Equipment connected to unearthed external circuits, current (mA)	EX MUTER MUTER MUTE A	N/A
5.8	Backfeed safeguard in battery backed up suppl	ies at the state of	N/A
- J.	Mains terminal ES	No battery used	N/A
WITE VID	Air gap (mm)	LEK JEK JEK JE	N/A

	6	ELECTRICALLY- CAUSED FIRE	LITE PALITY
75	6.2	Classification of PS and PIS	Р



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	EN IEC 62368-	17th with with with a	
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
6.2.3	Classification of potential ignition sources	See the following details.	JEE PALT
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)	J/P
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P NITE P
- J.	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condi	tions at the state of the state	JP
6.4.1	Safeguard method	Control fire spread	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	White white	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	LIE WALLE WALLE WALLE	N/A
6.4.3.1	Supplementary safeguards	L St St St St	N/A
6.4.3.2	Single Fault Conditions	MULL MILL MULL MILL	N/A
NITEH O	Special conditions for temperature limited by fuse	the fit the the	N/A
6.4.4	Control of fire spread in PS1 circuits	mer mer mer m	Р
6.4.5	Control of fire spread in PS2 circuits	at at let star	NIP N



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Clause	Requirement – Test	Result – Remark	Verdict
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:	Р
	The set set state state state	1) Printed board: rated V-0	-27,
	Whitek whitek whitek whitek whitek	2) Internal wires: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21.	MUTER A
	WELLER WHITER WHITER WHITER WHITER WHITER WHITER	3) All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying with relevant IEC standard.	Whitek w
y Jet	LIET MIET WHIEK WHIEK WHIE WHIE W	4) V-0 of plastic enclosure used	TEK ST
6.4.6	Control of fire spread in PS3 circuits	white mer mer me	N/A
6.4.7	Separation of combustible materials from a PIS	at at 1st It	N/A
6.4.7.2	Separation by distance	"AUT, MIT, MILL MILL	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.	Р
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 of plastic enclosure used	The Par
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 of plastic enclosure used	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	P
6.4.8.3.1	Fire enclosure and fire barrier openings	mer mer mer m	Р
6.4.8.3.2	Fire barrier dimensions	let let liet liet	P
6.4.8.3.3	Top openings and properties	br. mr. mr. m.	Р
ET WITE	Openings dimensions (mm)	Diameter <1.0mm circular hole	P
6.4.8.3.4	Bottom openings and properties	The Mr. M. M.	Р
WILL A	Openings dimensions (mm)	Diameter <1.0mm circular hole	Р
CLIEF IN	Flammability tests for the bottom of a fire enclosure	the tell till still	N/A
	Instructional Safeguard	Will Mar My My	N/A
6.4.8.3.5	Side openings and properties	TEX TEX STEX SLITER	P
	Openings dimensions (mm)	Diameter <1.0mm circular hole	Р
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 of plastic enclosure used	PE



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	EN IEC 62368-	The mile wall wall	
Clause	Requirement – Test	Result – Remark	Verdict
6.4.9	Flammability of insulating liquid	E. Marie And Mr. M.	N/A
6.5	Internal and external wiring	- TEK ITEK ALTEK MIT	P
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	MALIFE P.
6.5.2	Requirements for interconnection to building wiring	t lit the the	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to ac	dditional equipment	J. P
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р
7.2	Reduction of exposure to hazardous substance	~ · · · · · · · · · · · · · · · · · · ·	N/A
7.3	Ozone exposure	at the set set	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
CLIET	Personal safeguards and instructions	at let set is	_
7.5	Use of instructional safeguards and instruction	S We And And And	N/A
NITE NA	Instructional safeguard (ISO 7010)	ALTER MITE	_
7.6	Batteries and their protection circuits		Р
8	MECHANICALL V CALICED IN HIDV	A The Table	Р
8.2	MECHANICALLY-CAUSED INJURY  Mechanical energy source classifications	at the state of	Р
8.3	Safeguards against mechanical energy sources	with they have the	Р
8.4	Safeguards against parts with sharp edges and		Р
8.4.1	Safeguards	Mir Mur Mur in	Р
TILE AND	Instructional Safeguard:	MS1: Edges and corners of enclosure	P.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	+ at at at	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
14 70 10 70	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
"I MUEL	Moving MS3 parts only accessible to skilled person	TEX STEE WITE SUITE	N/A
8.5.2	Instructional safeguard	1111 1111 1111	N/A
8.5.4	Special categories of equipment containing moving parts	THE WILL WILL WILL W	N/A
8.5.4.1	General	TEH TEH STEEL STEEL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Oladoo	Trequirement Test	Troour Troman	Verdiet
8.5.4.2	Equipment containing work cells with MS3 parts	24 X	N/A
8.5.4.2.1	Protection of persons in the work cell	White while while while	N/A
8.5.4.2.2	Access protection override	The set set	N/A
8.5.4.2.2.1	Override system	WILL MULL MULL MULL	N/A
8.5.4.2.2.2	Visual indicator	at let let let	N/A
8.5.4.2.3	Emergency stop system	in with mit me of	N/A
MUSTIFE	Maximum stopping distance from the point of activation (m)	t inties writes writes wri	N/A
unlifek wini	Space between end point and nearest fixed mechanical part (mm)	STEEL STEEL STATES	N/A
8.5.4.2.4	Endurance requirements	m m the	N/A
	Mechanical system subjected to 100 000 cycles of operation	LIER WHITE WHILE WHILE	N/A
MILLE	- Mechanical function check and visual inspection	EX LIEX WIFE WIFE WI	N/A
d	- Cable assembly:	10, 20, 7, 7	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	Whitek Multer White White	N/A
8.5.4.3.1	Equipment safeguards	ALL MITTER MITTER	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	_1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
8.5.4.3.3	Disconnection from the supply	TEN ALTE WITH MAINE	N/A
8.5.4.3.4	Cut type and test force (N):	The state of	N/A
8.5.4.3.5	Compliance	A WILLER WHILE MULTER WAS	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
are are	Explosion test:	WHITE MALL WALL WALL	N/A
8.5.5.3	Glass particles dimensions (mm):	at at all of the	N/A
8.6	Stability of equipment	Write Autre Aug Aug.	N/A
8.6.1	General	MS1: Mass of the unit	N/A
	Instructional safeguard:	, are are an a	N/A
8.6.2	Static stability	- TEK STEK STEK SINT	N/A
8.6.2.2	Static stability test	M. M. M.	N/A
8.6.2.3	Downward force test	LIER MITER MATER MALTE	N/A
8.6.3	Relocation stability	in in the second	N/A
in Mur	Wheels diameter (mm):	LIER WALL WALL	_
t Jet	Tilt test	s at the left	N/A
8.6.4	Glass slide test	THE WALL WITH MY	N/A
8.6.5	Horizontal force test:	4 4 4	N/A



N/A

N/A

No such parts

an.	EN IEC 62368-	Tip with with wine	211, 21
Clause	Requirement – Test	Result – Remark	Verdict
8.7	Equipment mounted to wall, ceiling or other stru	ıcture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	7/1/ 7/1	N/A
in an	Test 1, additional downwards force (N)	alter mite white white	N/A
EX WALTER	Test 2, number of attachment points and test force (N)	THE SLIET SLIET MITTER	N/A
- MITEK	Test 3 Nominal diameter (mm) and applied torque (Nm)	t tet stet stet s	N/A
8.8	Handles strength	mr mr m m	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	Mr. M. M. M.	N/A
The Will	Number of handles	THE STEEL OUTER SINTE	
الخار الح	Force applied (N)	20, 2,	L+ -
8.9	Wheels or casters attachment requirements	TER STEE WITE WITE	N/A
8.9.2	Pull test	No such parts	- N/A
8.10	Carts, stands and similar carriers	MITE WITE WALL VIN	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	To the second	N/A
8.10.3	Cart, stand or carrier loading test	ITE OUT WALL WALL	N/A
t zet	Loading force applied (N):		N/A
8.10.4	Cart, stand or carrier impact test	MUTEL WALL WALL W	N/A
8.10.5	Mechanical stability	a state of	N/A
n in	Force applied (N)	WILL MULL MULL MULL	1/15
8.10.6	Thermoplastic temperature stability	at at all	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	. Mrs. Mrs. M.	N/A
MILITER	Instructional Safeguard	- TEK TEK WEEK	N/A
8.11.3	Mechanical strength test	me me me	N/A
8.11.3.1	Downward force test, force (N) applied:	LIEF STER BUTER SINT	N/A
8.11.3.2	Lateral push force test	Mr. Mr. Mr.	N/A
8.11.3.3	Integrity of slide rail end stops	14 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A

Compliance

Telescoping or rod antennas

Button/ball diameter (mm).....:

8.11.4

8.12



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	20, 7	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

9	THERMAL BURN INJURY		P.+
9.2	Thermal energy source classifications		JIP P
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)	N P 4
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		WP.
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.F.
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	Frie Mer Mer Me An	Р
9.6.1	General	et let let liet sille	Р
9.6.2	Specification of the foreign objects	West Mar Any Any	Р
9.6.3	Test method and compliance	: See appended table 9.6	P

10	RADIATION		JIP P. J
10.2	Radiation energy source classification		Р
10.2.1	General classification	See below	P
	Lasers	Mr. Mr. M. M.	_
Write A	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	_
ir. Mr.	Image projectors:	ALTER MITE WALL WALL	_
et je	X-Ray:	a state of the	_
The same	Personal music player	the min min me m	_
10.3	Safeguards against laser radiation		N/A
TEX.	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	os and lamp systems	All P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P.V.
MALTE	Instructional safeguard provided for accessible radiation level needs to exceed	EEL WATER WATER WA	N/A
TEX	Risk group marking and location::	at the tile of	N/A



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	EN IEC 62368-	The wife whi and	
Clause	Requirement – Test	Result – Remark	Verdict
- April	Information for safe operation and installation	the rite with mer	N/A
10.4.2	Requirements for enclosures	Alt Alt Alt	N/A
10.4.2	UV radiation exposure:	They show they	N/A
10.4.3	Instructional safeguard	all the state of	N/A
10.4.3	Safeguards against X-radiation	her one on an	N/A
10.5.1	Requirements	No X-radiation	N/A
10.0.1	Instructional safeguard for skilled persons	711 77	14/7 (
10.5.3	Maximum radiation (pA/kg)	Control of the second	7/1
10.6	Safeguards against acoustic energy sources	11 12 2×	N/A
10.6.1	General General	No such equipment	N/A
10.6.2	Classification	The such equipment	N/A
10.0.2	Acoustic output $L_{Aeq,T}$ , dB(A)	THE WILL WAS	N/A
<del>*                                    </del>	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS)	Mill Mar Mill	N/A
10.6.3	Requirements for dose-based systems	TEN TEN LIEN	N/A
10.6.3.1	General requirements	Wer Aug Aug	N/A
10.6.3.2	Dose-based warning and automatic decrease	LET CONTEST	N/A
10.6.3.3	Exposure-based warning and requirements	7 3 3	N/A
WILL	30 s integrated exposure level (MEL30)	The LITE MITTERSTALL	N/A
t et	Warning for MEL ≥ 100 dB(A)	711 0 2	N/A
10.6.4	Measurement methods	CLIEN WILLER WALLE	N/A
10.6.5	Protection of persons	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
m, m	Instructional safeguards	MILIE WALL WALL	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	TIER WITER WITER MY	N/A
10.6.6.1	Corded listening devices with analogue input	1 1 1	N/A
ALC	Listening device input voltage (mV)	IER WILL MULL MULL	N/A
10.6.6.2	Corded listening devices with digital input	at at at	N/A
21/2 1	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	MILITE WHILE WHILE	N/A
10.6.6.3	Cordless listening devices	A At At	N/A
11. 20,	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	WILL WILL MILL W	N/A

В	NORMAL OPERATING CONDITION TESTS CONDITION TESTS AND SINGLE FAULT (		Р	ek Ek
B.1	General	- ITEK SLIER WITE WITE WAS	Р	
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P	-
B.2	Normal operating conditions	ITER ALTER MITE MALL MALL	W.P	77/



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01	Destruction Test Control W	Desuit Demands	Verdict
Clause	Requirement – Test	Result – Remark	verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
76x 7	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	P
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	Р
B.2.5	Input test	(See appended table B.2.5)	JE P
B.3	Simulated abnormal operating conditions	the me me m	Р
B.3.1	General	(See appended table B.3, B.4)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	Р
WITE W	Instructional safeguard	TEX STEX SLIER WITE	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, B.4)	μР
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3, B.4)	- P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	WP.
B.4	Simulated single fault conditions	ALL STREET MATERIALITE	n P
B.4.1	General	7	Р
B.4.2	Temperature controlling device	NTC used on main board. The test is carried out for three times, no failure. See appended table B.4 for details	er unit
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	JIL P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3, B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3, B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3, B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.3, B.4)	Whit P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P



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01	EN IEC 62368-		\/ !! · (
Clause	Requirement – Test	Result – Remark	Verdict
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 r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	y my my my m	N/A
C.2	UV light conditioning test	et ret ofet ofet of	N/A
C.2.1	Test apparatus:	mer me m. m.	N/A
C.2.2	Mounting of test samples	TEX LIEK SLIEK MITE	N/A
C.2.3	Carbon-arc light-exposure test	me me me	N/A
C.2.4	Xenon-arc light-exposure test	TEX STEX WITER WATER	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	TEX SITES WITE WHILE W	N/A
D.2	Antenna interface test generator	71 7 7	N/A
D.3	Electronic pulse generator	t niter white white whi	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		P
E.1	Electrical energy source classification for audi	o signals	W P
	Maximum non-clipped output power (W):	(See appended table B.2.5)	_
20	Rated load impedance (Ω):	(See appended table 4.1.2)	_
LITER	Open-circuit output voltage (V)	(See appended table B.2.5)	_
72,,	Instructional safeguard	Provided in the manual	_
E.2	Audio amplifier normal operating conditions		Р
	Audio signal source type:	(See appended table B.2.5)	_
LIE WILL	Audio output power (W):	(See appended table B.2.5)	_
at al	Audio output voltage (V):	(See appended table B.2.5)	_
MULLE	Rated load impedance (Ω):	(See appended table 4.1.2)	_
MALTER	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P.E.
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	untip.
F.1	General	let test the street	NITE P
	Language:	English	_
F.2	Letter symbols and graphical symbols	THE LITTER ALTER PLITTER AND	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	PH



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P. P. S
F.3	Equipment markings	LIFE CLIEF WILLE WHITE	on P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	LIEK P
F.3.2	Equipment identification markings	See below for details.	√P
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	√0 P
F.3.3	Equipment rating markings	See below for details.	o <sup>©</sup> P
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	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.	P
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	M. M. 2.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	White white white whi	N/A
F.3.5.2	Switch position identification marking:	THE LIFE SLIFE MATE	N/A
F.3.5.3	Replacement fuse identification and rating markings	and and and a	N/A
. 40	Instructional safeguards for neutral fuse:	WILL MULL MULL MULL	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	the tiet with	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	MULL MULL MULL MULL	N/A
F.3.6.1.1	Protective earthing conductor terminal	at the the state	N/A
F.3.6.1.2	Protective bonding conductor terminals:	in mi mi m	N/A
F.3.6.2	Equipment class marking:	et tet tet atter	N/A
F.3.6.3	Functional earthing terminal marking	Mer My My M	N/A



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01	EN IEC 62368-		1/
Clause	Requirement – Test	Result – Remark	Verdict
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	k nijek
F.3.8	External power supply output marking:	See copy of marking plate.	Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	MALT P W
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	PI JUNITER JUNITER JUNITER JUNITER JUNITER
F.4	Instructions	the self self self	P
2112 3	a)Information prior to installation and initial use	See user manual	Р
ULIEK WA	b)Equipment for use in locations where children not likely to be present	IN THE WALTER	N/A
et de	c) Instructions for installation and interconnection	the set	N/A
t sk	d) Equipment intended for use only in restricted access area	The white white white	N/A
Mill	e) Equipment intended to be fastened in place	* SITE OF THE WALL WAL	N/A
_Et	f) Instructions for audio equipment terminals	10 T	N/A
ال سيران	g) Protective earthing used as a safeguard	CLIEB WILL WILL MILL	N/A
LIEK MAL	h) Protective conductor current exceeding ES2 limits	TEX LIEX NUTEX MUTEX	N/A
	i) Graphic symbols used on equipment	L. M. M. M.	N/A
MULL	j) Permanently connected equipment not provided with all-pole mains switch	EX MULTER MULTER MULTER M	N/A
WALTER	k) Replaceable components or modules providing safeguard function	UNLIER WALTER WALTER WALT	N/A
LIEN S	I) Equipment containing insulating liquid	at at let let	N/A
1. 20,	m) Installation instructions for outdoor equipment	MULL MULL MULL MULL	N/A
F.5	Instructional safeguards	at all all often	N/A
G	COMPONENTS		Р
G.1	Switches	et let let let liet i	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	at the the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	INESUIT - INEITIAIN	Verdict
G.1.3	Test method and compliance	11/2 11/2 11/2	N/A
G.2	Relays	LIEF SLIEF MLIEF	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	ALTER WITER WALTER WAY	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	CER STER WITER MILT	N/A
G.2.4	Test method and compliance	24 25 A	N/A
G.3	Protective devices	It still nite with	N/A
G.3.1	Thermal cut-offs	No such component	N/A
ing in	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	White White White W	N/A
rie Muri	Thermal cut-outs tested as part of the equipment as indicated in c)	Liet Whitek Whitek Whi	N/A
G.3.1.2	Test method and compliance	EX TEX STEX STE	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	MALIER WALTER	N/A
. LITET	b) Thermal links tested as part of the equipment	THE TEST	N/A
G.3.2.2	Test method and compliance	a the m	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	A MITER WALTER WALTER	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	STIER STIER STIER	N/A
G.3.5.2	Single faults conditions:	Sur St.	N/A
G.4	Connectors	inter unit with white whi	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	ies wall wall wal	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	CLIEK MITER MATER	N/A
G.5	Wound components	The state of	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test	LIE WILL MUT MUT	N/A
G.5.2.1	General test requirements	at the set	N/A
G.5.2.2	Heat run test	WITH WILL WILL	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- 41-	Toot tomporature (9C)	the main white white	10, 10,
0522	Test temperature (°C):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.5.2.3	Wound components supplied from the mains	April April West	N/A
G.5.2.4	No insulation breakdown	The set of	N/A
G.5.3	Transformers	ing mer me a	N/A
G.5.3.1	Compliance method:	the title title	N/A
1,4	Position:	is increased in	N/A
- Jan 1	Method of protection	L THE THE STEE	N/A
G.5.3.2	Insulation	me me m	N/A
المال سنكتام	Protection from displacement of windings:	LET THE MITTER	11 TE -
G.5.3.3	Transformer overload tests	211. 211. 21.	N/A
G.5.3.3.1	Test conditions	TEX STEX STER N	N/A
G.5.3.3.2	Winding temperatures	. M. M. M.	N/A
G.5.3.3.3	Winding temperatures - alternative test method	Et STEK STEK SPLI	N/A
G.5.3.4	Transformers using FIW	20, 20, 20	N/A
G.5.3.4.1	General	CITER WHEE WILLE	N/A
et a	FIW wire nominal diameter:	10 10 10	<u> </u>
G.5.3.4.2	Transformers with basic insulation only	- FRE SUPLIFE	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	THE THE MILE OF	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	t et ret re	N/A
G.5.3.4.5	Thermal cycling test and compliance	Mur Mur Mu	N/A
G.5.3.4.6	Partial discharge test	THE THE CHEE	N/A
G.5.3.4.7	Routine test	Mer Mr. Mr.	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	ing the the	N/A
G.5.4.2	Motor overload test conditions	Et JET JET N	N/A
G.5.4.3	Running overload test	211, 211, 211	N/A
G.5.4.4.2	Locked-rotor overload test	LIER NITER WITE	N/A
J.	Test duration (days):	111, 12, 2,	
G.5.4.5	Running overload test for DC motors	ALTER INLIER MALTER	N/A
G.5.4.5.2	Tested in the unit	n 11 1	N/A
G.5.4.5.3	Alternative method	LIEN WITE WALLEN	N/A
G.5.4.6	Locked-rotor overload test for DC motors		√ N/A
G.5.4.6.2	Tested in the unit	SER WILL WALLENALL	N/A
,d-	Maximum Temperature:		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
	M. M	The state of the s	1000
G.5.4.6.3	Alternative method	74, 24, 4,	N/A
G.5.4.7	Motors with capacitors	ALTER MITE MALTER	N/A
G.5.4.8	Three-phase motors	211 211 2	N/A
G.5.4.9	Series motors	OLIER MITER WALTER WA	N/A
Et TEX	Operating voltage:		* -
G.6	Wire Insulation	LIFE WALL WALL WALL	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	White white white	N/A
G.7	Mains supply cords	at at 18th	N/A
G.7.1	General requirements	No such component	N/A
LIER DUE	Type:	et let let i	TER -
G.7.2	Cross sectional area (mm² or AWG):	ing the me me	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	EX WHITEX WHITE	N/A
G.7.3.2	Cord strain relief	et det det	N/A
G.7.3.2.1	Requirements	Wer Aug Aug	N/A
NITER WAL	Strain relief test force (N)	Let the contract of	N/A
G.7.3.2.2	Strain relief mechanism failure	2 34 24	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	The The Link MI	N/A
G.7.3.2.4	Strain relief and cord anchorage material	10 10 10	N/A
G.7.4	Cord Entry	CH LIER NITER WITE	N/A
G.7.5	Non-detachable cord bend protection	74 70	N/A
G.7.5.1	Requirements	LITER OLITER MALTER A	N/A
G.7.5.2	Test method and compliance	24	N/A
il whi	Overall diameter or minor overall dimension, <i>D</i> (mm)	NIFE WHITE WHITE WH	_
MALTE	Radius of curvature after test (mm):	the little slitter write	
G.7.6	Supply wiring space	711 211 21	N/A
G.7.6.1	General requirements	- LIER WITE WHITE	N/A
G.7.6.2	Stranded wire	20 20 3	N/A
G.7.6.2.1	Requirements	CLIER WILL WHILE M	N/A
G.7.6.2.2	Test with 8 mm strand	n t t	N/A
G.8	Varistors	NITER WALTE WALL WAL	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	White white white	N/A
G.8.2.1	General	1 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
- Clade	An A	Fr. J. L. M. M.	100.000
G.8.2.2	Varistor overload test	111 211 21	N/A
G.8.2.3	Temporary overvoltage test	LIER RUTE MITE MILE	N/A
G.9	Integrated circuit (IC) current limiters	THE THE CAN	N/A
G.9.1	Requirements	No such component	N/A
et et	IC limiter output current (max. 5A)		_
4/12	Manufacturers' defined drift:	TET WILL MULL MIND W	
G.9.2	Test Program	e at the little	N/A
G.9.3	Compliance	MULL MULL MULL MULL	N/A
G.10	Resistors	at at the still	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	the text text attent	N/A
G.10.3	Resistor test	in min me min	N/A
G.10.4	Voltage surge test	Et TEX TIEX WIFE W	N/A
G.10.5	Impulse test	Mr. Mr. Mr.	N/A
G.10.6	Overload test	LIEF SLIEF WITE SOUTH	N/A
G.11	Capacitors and RC units	M. A. A.	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	LIE OLIVE WALL WALL V	N/A
G.12	Optocouplers	a state of	N/A
'AL.	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
اله تناس	Type test voltage V <sub>ini,a</sub> :	LIFE OLIFE MALTE MALTE	_
. ot 4	Routine test voltage, V <sub>ini, b</sub>	In the state of	_
G.13	Printed boards	NITER MATERIALITY MALIE	N P
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	LIEK P
G.13.2	Uncoated printed boards	- the the the	N/A
G.13.3	Coated printed boards	Mer Mr. Mr. Mr.	N/A
G.13.4	Insulation between conductors on the same inner surface	WALTER WALTER WALTER WALTER	N/A
G.13.5	Insulation between conductors on different surfaces	LIEK INLIEK WHITEK	N/A
t set	Distance through insulation:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
200	Number of insulation layers (pcs)	Continue Mary Mary My	_
G.13.6	Tests on coated printed boards	4 4 4	N/A



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-20.	EN IEC 62368-	The same same	(i) di.
Clause	Requirement – Test	Result – Remark	Verdict
0.40.0.4		Er Will Mary Mr. M	21/2
G.13.6.1	Sample preparation and preliminary inspection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.13.6.2	Test method and compliance	WILL MILL MILL MULL	N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements	WILL MULL MULL MULL	N/A
G.15	Pressurized liquid filled components	at the title	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	L of the set	N/A
G.15.2.1	Hydrostatic pressure test	MULL MULL MULL MULL MI	N/A
G.15.2.2	Creep resistance test	at at 18th 18	N/A
G.15.2.3	Tubing and fittings compatibility test	aure aure mer au	N/A
G.15.2.4	Vibration test	CH TEX STEX STEX	N/A
G.15.2.5	Thermal cycling test	ir mr mr m	N/A
G.15.2.6	Force test	EX TEX STER STER	N/A
G.15.3	Compliance	me me me	N/A
G.16	IC including capacitor discharge function (ICX)	- TEX TEX STEEL ON	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
NLTER WAL	ICX with associated circuitry tested in equipment	Let Court mit	N/A
	ICX tested separately		N/A
G.16.2	Tests	The Lite Will willing	N/A
L MITEL	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	t tet stet stet steel s	<u> </u>
LITER IN	Mains voltage that impulses to be superimposed on	at the the	_
all all	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	anti and and all	_
G.16.3	Capacitor discharge test	NITE WALL WALL WALL	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
H.1	General	The War Mur a	N/A
H.2	Method A	e at at all a	N/A
H.3	Method B	write whi whi you	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	TEX SITE OUTE WITE	
H.3.1.2	Voltage (V)	70. 20. 2	_
H.3.1.3	Cadence; time (s) and voltage (V)	et alter mile ancies an	\$
H.3.1.4	Single fault current (mA):	20 20 2	



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01	EN IEC 62368	D. 11. 10. 20. 2	1.7
Clause	Requirement – Test	Result – Remark	Verdict
H.3.2	Tripping device and monitoring voltage	The man of the	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	WHITE WHITE WALTE WAL	N/A
H.3.2.2	Tripping device	TEX LIEX NUTER MUTE	N/A
H.3.2.3	Monitoring voltage (V)	in my my	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	OUT INTERLEAVED	N/A
J.1	General	ex lex liex liex w	N/A
	Winding wire insulation:	me me m	_
UNITE OU	Solid round winding wire, diameter (mm):	TEX STER OUTER WITH	N/A
lifek mil	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	of the tex states	N/A
J.2/J.3	Tests and Manufacturing	hry him him him	4, 7
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	Mr. Mr. Mr.	N/A
MULTE A	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode	2 m m	N/A
K.4	Interlock safeguard override	THE THE THE MITTER	N/A
K.5	Fail-safe	in the the the	N/A
K.5.1	Under single fault condition	A THE STEEL WITTEN	N/A
K.6	Mechanically operated safety interlocks	Mr. Mr. Mr.	N/A
K.6.1	Endurance requirement	TER STER WITER WAIT	N/A
K.6.2	Test method and compliance:	zu. 2n. 2.	N/A
K.7	Interlock circuit isolation	LIER NITER WHITE WHITE	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at that that writer	N/A
N. TEK	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
All A	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
ing an	Electric strength test before and after the test of K.7.2	MILLE MILL MILL MILL	N/A
K.7.2	Overload test, Current (A):	LIER WILLE WHIEL WHILE	N/A
K.7.3	Endurance test	70, 20, 3	- N/A
K.7.4	Electric strength test	TER WILL MULLE MULLE M	N/A
L	DISCONNECT DEVICES		N/A
L.1 d	General requirements	alte with will were	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
NI CONTRACTOR	Will sink of the state of	Et alter mitte unite un	The same
L.2	Permanently connected equipment	20 T X X	N/A
L.3	Parts that remain energized	alies with while while	N/A
L.4	Single-phase equipment	The table of the table	N/A
L.5	Three-phase equipment	ALTER WALTE WALTE WALL	N/A
L.6	Switches as disconnect devices	a state of the	N/A
L.7	Plugs as disconnect devices	ter write auti auti an	N/A
L.8	Multiple power sources	L of the contract	N/A
1112	Instructional safeguard	Well Mer Me Me	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements	Murr Aur Aur Mi	Р
M.2	Safety of batteries and their cells	Et TEX JEX WIER	Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	P
M.3	Protection circuits for batteries provided within the equipment	white mer was an	Р
M.3.1	Requirements	alier while wait wait	W.P.
M.3.2	Test method		Р
TEK MUTE	Overcharging of a rechargeable battery	(See appended table Annex M)	N P
	Excessive discharging	(See appended table Annex M)	P
MALTER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
WALTER ON	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	MALTE P
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		P P
M.4.1	General	They are the	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.	ALTER SO
M.4.2.1	Requirements	THE LIFE WITH MIT	N/A



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-20,	EN IEC 62368-	The same sales of	n 2,
Clause	Requirement – Test	Result – Remark	Verdict
ah.	W W THE ST	En Will south Myr. My	701
M.4.2.2	Compliance	(See appended table M.4.2)	P
M.4.3	Fire enclosure:	V-0 of plastic enclosure used	W P
M.4.4	Drop test of equipment containing a secondary lithium battery	TEX LIEX NIFEX WIFEX	UNLITE P
M.4.4.2	Preparation and procedure for the drop test	he me in the	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	P
M.4.4.6	Compliance	TEX LIER SLIER MITE	nui P
M.5	Risk of burn due to short-circuit during carrying	g w v	∠ P
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	THE THE LITTER ALTS	N/A
M.6	Safeguards against short-circuits	The Mr. Mr. And	Р
M.6.1	External and internal faults	ART THE STEE	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 OUT
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
48 <sup>t</sup> 5	Calculated hydrogen generation rate:	1 A A A	N/A
M.7.2	Test method and compliance	NITE WALL WALL WALL	N/A
EK JEK	Minimum air flow rate, Q (m³/h)	s at at at	N/A
M.7.3	Ventilation tests	the write mile and an	N/A
M.7.3.1	General	- et et et s	N/A
M.7.3.2	Ventilation test – alternative 1	MULL MET MET MUT	N/A
NITER IN	Hydrogen gas concentration (%)	it it it it	N/A
M.7.3.3	Ventilation test – alternative 2	min min me me	N/A
TEX OLIT	Obtained hydrogen generation rate:	Et TEK JEK JEK	N/A
M.7.3.4	Ventilation test – alternative 3	3. Mr. Mr. 24	N/A
" ULLER	Hydrogen gas concentration (%)	et let liet liet h	N/A
M.7.4	Marking:	" 11 11 11 11 11 11 11 11 11 11 11 11 11	N/A



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Later Marie	Mir Me Me Me	EN IEC 62368-1	Muse Mirror
Clause	Requirement – Test	Result – Remark	Verdict

M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	They say, say, say,	N/A
M.8.2	Test method	TEX STEE STEEL STEEL	N/A
M.8.2.1	General	he me me	N/A
M.8.2.2	Estimation of hypothetical volume V <sub>Z</sub> (m <sup>3</sup> /s):	THE STEE STEE SHITE SHE	1. A
M.8.2.3	Correction factors	The top to	* -
M.8.2.4	Calculation of distance d (mm)	ALTER MILE WALTE WAL	7/2
M.9	Preventing electrolyte spillage	50 A 14 14	N/A
M.9.1	Protection from electrolyte spillage	ILITE WALTER WALTER WALTER	N/A
M.9.2	Tray for preventing electrolyte spillage	L St. St. St.	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	the min me of	N/A
Mer	Instructional safeguard	ER WILL MILL MINITED	N/A
N A	ELECTROCHEMICAL POTENTIALS		N/A
21/2 2	Material(s) used	WILL MULL MULL MULL	2/15
0,0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		
is in	Value of X (mm)	The sunt sunt	in
PK STE	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of entry of a foreign object		P
P.2.1	General	Mr. Mr. M. M.	Р
P.2.2	Safeguards against entry of a foreign object	TEN LIEN NUTER MITE	P
· ·	Location and Dimensions (mm)	Diameter<1.0mm circular hole	, t
P.2.3	Safeguards against the consequences of entry of a foreign object	NIEL WHITE WHITE WHITE	N/A
P.2.3.1	Safeguard requirements	SH TEN STEN STEN OF	N/A
TEK	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE THE THE	N/A
20, 1	Transportable equipment with metalized plastic parts	MULT MULT MULT MULT	N/A
P.2.3.2	Consequence of entry test	CLIEF WILL WALL WALL	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	a at at at a	N/A
P.3.3	Spillage safeguards	E WYLL MUT MUT AN	N/A
P.3.4	Compliance	4 4 4	N/A



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4			
L. Mr.		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

P.4	Metallized coatings and adhesives securing parts		
P.4.1	General	No such construction.	N/A
P.4.2	Tests	The state of	N/A
in 146	Conditioning, T <sub>C</sub> (°C)	RITER MITE WALL WALL	10, -0
er de	Duration (weeks)	e at at att.	(Et
Q Jun	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	See appended table Annex Q.1	AND BEE
Q.1.1	Requirements		P
11. N	a) Inherently limited output	WITE WALL WALL WALL	N/A
et s	b) Impedance limited output	at the fift	N/A
y while	c) Regulating network limited output	A regulating network limits the output in compliance with table Q.1 both under normal operating conditions and after any single fault.	Par and
Wer.	d) Overcurrent protective device limited output	CULTER WALTER WALL WALL	N/A
et.	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance:	See appended table Annex Q.1	Р
MULL	Current rating of overcurrent protective device (A)	TE WHITE WHITE WHITE W	N/A
Q.2	Test for external circuits – paired conductor cable	MULTER WALTER WALTER WAL	N/A
JEK.	Maximum output current (A):	at let let let	N/A
11. 2	Current limiting method	MULL MULL MULL MILL	20,
REF	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	Et TEX STEX OUTER ON	N/A
	Overcurrent protective device for test:	Mus Mis Mis Mis	د ــــا
R.3	Test method	- TEX STEX WITE SINT	N/A
	Cord/cable used for test	Mr. M. A. X	100
R.4	Compliance	ALTER OLITER ANTIE MOLITE	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire bawhere the steady state power does not exceed		N/A
MULLI	Samples, material:	et riset which will make	2126
NALIEN N	Wall thickness (mm)	M. M. A.	- K
	Conditioning (°C)	LIEF ALTER OLITE MALTE	W.



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01	EN IEC 62368-		N/ P. 4
Clause	Requirement – Test	Result – Remark	Verdict
ONLIEK O	Test flame according to IEC 60695-11-5 with conditions as set out	TER TER STEEL ON	N/A
	- Material not consumed completely	me me me	N/A
المالية المالية	- Material extinguishes within 30s	TEX STEX WIFE WIFE	N/A
	- No burning of layer or wrapping tissue	We all the second	N/A
S.2	Flammability test for fire enclosure and fire bar	rrier integrity	N/A
- 14	Samples, material	th the	Jet -
Mirr	Wall thickness (mm):	MITTER WALTER WALTER W	in win
All the	Conditioning (°C)	The state of	14 5th
S.3	Flammability test for the bottom of a fire enclose	sure the sure	N/A
S.3.1	Mounting of samples	a state of	N/A
S.3.2	Test method and compliance	Hite mail man man	N/A
it alies	Mounting of samples:	at let tet tet	NIET OF
20,	Wall thickness (mm):	Mur My My	n
S.4	Flammability classification of materials	LET THE LITTER OF	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	White white	N/A
et s	Samples, material:	- 1 t	_(t)+_
. Mer	Wall thickness (mm):	LIE WILL WILL WILL	1/12 -1/1
t the	Conditioning (°C)	L at alt left	36th -35
T-Z <sub>U</sub> -	MECHANICAL STRENGTH TESTS	E WILL AND AVE A	Р
T.1	General	- ch fet fet i	P
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:	let ret liet sie	N/A
T.4	Steady force test, 100 N:	WE ME ME ON	N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	and Ph
T.6	Enclosure impact test	(See appended table T.6)	Р
MALTE.	Fall test	the liter street springs	JI JII P
.et	Swing test	m m	P
T.7	Drop test:	(See appended table T.7)	an P
T.8	Stress relief test:	(See appended table T.8)	P
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	at at all the	N/A
20/2	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	at at at	N/A



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

- apr	THE THE ST	the write will out when	21/2
MITER	Torque value (Nm)	No such antennas provided within the equipment.	N/A
Ú Clerk	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General	ANTI WILL AND MIN	N/A
iek wite	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen	INTERNATION WILL WAS	N/A
V A	DETERMINATION OF ACCESSIBLE PARTS	A A A A	N/A
V.1	Accessible parts of equipment	Write Muri Mur Mur	N/A
V.1.1	General	at let let let	N/A
V.1.2	Surfaces and openings tested with jointed test probes	the man was all	N/A
V.1.3	Openings tested with straight unjointed test probes	the write while who	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	at at alt of	N/A
V.1.5	Slot openings tested with wedge probe	White white when when	N/A
V.1.6	Terminals tested with rigid test wire	at a let the	N/A
V.2	Accessible part criterion	2 245 245	N/A
X SUPLIX	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
WELL	Clearance:	* LIFE WITE WITE WILL	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	The state of	N/A
Y.3	Resistance to corrosion	LIER WITE WALL WALL	N/A
Y.3	Resistance to corrosion	at at all	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	MULL MILL MAY M	N/A
Y.3.2	Test apparatus	LIER WITE WALL WALL	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	The state of	N/A
Y.3.4	Test procedure	MITER MILE WALL WALL	N/A
Y.3.5	Compliance	a state set	N/A
Y.4	Gaskets	LIE WALL WALL WALL O	N/A
Y.4.1	General	L A A A A	N/A
Y.4.2	Gasket tests	"Write Mury Mury M.	N/A



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	EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict			
Jahr.	THE THE STATE OF	TER STEE WITE WILL	Mur Mur			
et.	Alternative test methods:	70 7	N/A			
Y.4.4	Compression test	ALIER WILLE WILLE	N/A			
Y.4.5	Oil resistance	20, 2	N/A			
Y.4.6	Securing means	RITER WITE WALL W	N/A			
Y.5	Protection of equipment within an outdoor encl	osure	N/A			
Y.5.1	General	TEL MILE MALLE MA	N/A			
Y.5.2	Protection from moisture	L A ST ST	N/A			
20,00	Relevant tests of IEC 60529 or Y.5.3:	WILL MILL MALL	N/A			
Y.5.3	Water spray test	at at 1th	N/A			
Y.5.4	Protection from plants and vermin	With Mrs. Mrs.	N/A			
Y.5.5	Protection from excessive dust	at text text	N/A			
Y.5.5.1	General	her me me m	N/A			
Y.5.5.2	IP5X equipment	EX TEX STEX SUS	N/A			
Y.5.5.3	IP6X equipment	me me m	N/A			
Y.6	Mechanical strength of enclosures	t tex trex cites	N/A			
Y.6.1	General	We All An	N/A			
Y.6.2	Impact test:	Let 1 Little	N/A			



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United States	The high the	EN IEC 62368-1	TEX WITE WALLEY	reit un	- Cal
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et s	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)	life, while while Authorized	Р
MUTER O	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	WALTER
NEW WALTE	Add the following annexes:  Annex ZA (normative)Normative references to interr corresponding European publications  Annex ZB (normative)Special national conditions  Annex ZC (informative)A-deviations  Annex ZD (informative)IEC and CENELEC code des	TE WATER WATER WATER WA	P
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	efinitions:	N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.  Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A



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211.	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
The .	All All The The	ALTE INTERNAL	The Apr	
3.3.19.3	sound exposure, E  A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is $Pa^2$ s. $E = \int_0^T p(t)^2  \mathrm{d}t$		N/A	
3.3.19.4 VINITEL WALLES	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, $E_0$ , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: $SEL$ is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right) \text{dB}$ Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	JUNITER JUNITER JUNITER  JUNITER JUNITER JUNITER JUNITER  JUNITER JUNITER JUNITER  JUNITER JUNITER JUNITER  JUNITER JUNITER JUNITER	N/A  PLIET WEITER  WALTER  WALTER  WALTER  WALTER  WALTER  WALTER  WALTER	
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused  Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	THE WILLS WI	N/A  EX UN FEX UNITE  UNITER OF THE SEX	
2	Modification to Clause 10		N/A	

	A-weighted sound pressure ( <i>p</i> ) squared and integrated over a stated period of time, <i>T</i>	MULTER WHITER WHITER WHI	on the
	Note 1 to entry: The SI unit is $Pa^2$ s.	LIEK WITER WHITER WHITER	WALTER
	$E = \int_{0}^{1} p(t)^{2} dt$	EX WHITEX WHITEX	uni ex unite
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, $E_0$ , typically the 1 kHz threshold of hearing in humans.	White white white white	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	TEX WILLER WILLER WILLER	Whitek whi
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	A MULTER MULTER MULTER M	NI WILLER
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	White Mulie While was	r 124
3.3.19.5	digital signal level relative to full scale, dBFS	THE MITTER MITTE	N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	it while while while	MY TEX
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	Whitek whitek whitek whi	ex murres
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	ne we we are	N/A
10.6.1.1	Introduction	Not such equipment	N/A
WALTER WAS	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	LIET STEET WITEEL SAN	TEK WALTER WA
WUTEK W	<ul> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and</li> </ul>	Whitek whitek whitek whi	EX MULTER



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- dru	and the sun of the sun	Et JE JIE WILL	aris ari
MUTER AN	<ul> <li>has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a</li> </ul>	MULTER MULTER	MALIEK WALTER
	subway, at an airport, etc.).	STEK STEK WITEK SI	LIER WALTER ON
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	are any on the	et viet ni
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	it while while while	TE TE
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	MILL MILL MILL	Mrs. Mrs.
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	JUNITER WHITER WHITER W	neter meter on
	Listening devices sold separately shall comply with the requirements of 10.6.6.  These requirements are valid for music or video	STATE WALTER WALTER	* WHITE WHITE
	mode only. The requirements do not apply to:  – professional equipment;	Whitek Multer Multer	MALTER MALTER
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	united w	EX NIEX N
	hearing aid equipment and other devices for assistive listening;	in mer me me	- 16+ 16
	the following type of analogue personal music players:	E WALTER WALTER WALL	mur mur
	long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and	Juliek Whitek Whitek	UNLTER WALTER
	• cassette player/recorder;	TEX LIFEK OLIFEK W	ITEK NILTEK W
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	ASK MUTTER MUTTER MUTT	ik wei ek wei
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>	A MULTER MULTER MULTER	WHITE WAITER
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	WALLER WALLER WALLE OF	ner untek
WALTER	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	th with miles write	White White
0.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	at at at	N/A



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- m	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WALTER	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).  For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	united un	WALTER WALTER
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1  IT IN THE WIND THE W	General  This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.  For classifying the acoustic output <i>L</i> <sub>Aeq</sub> , <i>τ</i> , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.  For music where the average sound pressure (long term <i>L</i> <sub>Aeq</sub> , <i>τ</i> ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.  NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> <sub>Aeq</sub> , <i>τ</i> ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an	Not such equipment	TEE UNITED AND TEEL A
10.6.2.2	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.  RS1 limits (to be superseded, see 10.6.3.2)  RS1 is a class 1 acoustic energy source that does not exceed the following:	WILL MULTER WILLER	N/A
THE WINTER WALTER	– 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 $L_{\text{Aeq}}$ , $\tau$ acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN	LEE WALTER WALTER WALTER	WINTER WINTER



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
-dri	With the the teacher the	Et Jak Mile Mile	West all
MALIER WEEK	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 per 10.6.3.2.	Whitek whitek whitek whi	ALTER WALTER
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)  RS2 is a class 2 acoustic energy source that does	Multe mult mult	N/A
10.6.2.4	not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.  RS3 limits  RS3 is a class 3 acoustic energy source that	JEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	N/A
10.6.2	exceeds RS2 limits.	NITEX WITER WITER WI	NI/A
10.6.3	Classification of devices (new)	201. 25. A.	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2 WALTER WALTER	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, ⊤ acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized	Whitek wh	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
TEK WY	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.	JUNITER WHITER WHITER	INTER MILIER	
0.6.3.3	RS2 limits (new)		- N/A	
	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player 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 EN50332-1.	Whitek wh	WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALT WALT WALT WALT WALT WALT WALT WALT	
10.6.4	Requirements for maximum sound exposure	The state of	N/A	
10.6.4.1	Measurement methods 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.	Not such equipment	N/A	
10.6.4.2	Protection of persons	10, 20, 2	N/A	
	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.	LIER WHITER WHITER WHITE		
	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	WALTER WALTER WALTER	oury Autex	
	on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	LIET MILIER MILIER MILIER	ek wa ilik wa	
	The elements of the <b>instructional safeguard</b> shall be as follows:	MULL MALL MALL	THE THE	



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Clause	Requirement – Test	Result – Remark	Verdict
The .	The training of the state of th	WILL WILL MILL	me m
			LET LET
	- element 1a: the symbol , IEC 60417-	LIER OLIE WITE W	The Course
	0044 (2011-01)	24. 24. 25.	
	<ul> <li>element 2: "High sound pressure" or equivalent wording</li> </ul>	at at set s	ET LIFE
	<ul> <li>element 3: "Hearing damage risk" or equivalent</li> </ul>	retained who was	4, 4,
	wording	الله على ال	- 164 3
	- element 4: "Do not listen at high volume levels	LEK SLIFER SLIFE WALLE	any an
	for long periods." or equivalent wording	24, 25, 2.	A- A
	An equipment safeguard shall prevent exposure	t tet tet aller.	mere mere
	of an <b>ordinary person</b> to an RS2 source without	The Mr. M.	
	intentional physical action from the <b>ordinary</b>	at at at .	TEX TEX
	person and shall automatically return to an output	WILL WILL MUT.	700
	level not exceeding what is specified for an RS1 source when the power is switched off.	10.	x et
	Source when the power is switched on.	TEN STEN STEN SELT	and a
	The equipment shall provide a means to actively	24 24 24	
	inform the user of the increased sound level when	at left left left	11/2 CLT
	the equipment is operated with an output exceeding RS1. Any means used shall be	MULL MULL MULL	211.
	acknowledged by the user before activating a	1 1 t at	LEK LEK
	mode of operation which allows for an output	LIER SLIER MILL N	Vr. Aler
	exceeding RS1. The acknowledgement does not	The ship is	
	need to be repeated more than once every 20 h of	Et TEK	THE LITE.
	cumulative listening time.	2 July My	2, ,
	NOTE 2 Examples of means include visual or audible signals.	# 1E	- JEH N
	Action from the user is always needed.	LES WILL MALL WALL	11/2 21/2
	NOTE 3 The 20 h listening time is the accumulative listening		.et .e
	time, independent of how often and how long the personal music player has been switched off.	LIER STEEL WITE	aver aver
	A skilled nersen shall not be unintentionally	Mr. M. M.	
	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	TEX STEX STEE	LIFE MILE
10.6.5	Requirements for dose-based systems	Mrs. Mrs. Mrs. A.	N/A
10.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as	in the one we	20 20
	provided below when tested according to EN	and the set of	1 Ct 3
	50332-3, using the limits from this clause.	the outer intity which	21/2
	The manufacturer may offer entianal cettings to	20, 20,	J 18
	The manufacturer may offer optional settings to allow the users to modify when and how they wish	THE LIER LIE	Write William
	to receive the notifications and warnings to	Mr. Mr. M. 2	
	promote a better user experience without	at at at	TER JUER
			115
	defeating the safeguards. This allows the users to	with the same and	
	defeating the safeguards. This allows the users to be informed in a method that best meets their	With Mur Aller Aller	
	defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If	tet tet tet stet ste	* ILL OU
	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	lest morres morrest morre	* While w
	defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If	THE WALL WALLES WHILE	Mu Tex m
	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	ALLE WALLES WALLES WALLES	white wh
	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	Antik whitek whitek whitek	MUNITER ON

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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WALTER	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	antiek untiek untiek unti	nor whitek
0.6.5.2	Dose-based warning and requirements  When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, 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 % CSD leads to the risk of hearing damage or loss.	TEX WHITEX	N/A INTE INTER ITEX
O.6.5.3  SANTER WALTER  WALTER	Exposure-based requirements.  With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.  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 signal), the EL may be disabled.	Whitek wh	White
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
O.6.6.1	Corded listening devices with analogue input With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic	Not such equipment	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
whitek w	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.		JUNE WILLER
10.6.6.2	Corded listening devices with digital input	it it it it	N/A
Whitek Whitek	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.	JUNE WALTER WALTER	JUNITE JUNITER
10.6.6.3	Cordless listening devices		N/A
WALTER WALTER WALTER WALTER	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 ∠Aeq, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	MILITER MILITER WHITE WH	Whitek wh
10.6.6.4	Measurement method	Mrs. Mrs. Mrs. 1	N/A
ITEH WALT	Measurements shall be made in accordance with EN 50332-2 as applicable.	TEX TIEX NITER AN	TEX WILLEY W
3	Modification to the whole document		Р



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The Ship	Mr. Mrs. Sur. M.	EN IEC 62368-1	it with wint
Clause	Requirement – Test	Result – Remark	Verdict

5.4.2.3.2.4   Note 2   5.4.2.5   Note 2   5.4.5.1   Note     Table 13     5.4.10.2.2   Note     5.4.10.2.3   Note     5.4.10.2.1   Note     5.4.10.2.2   Note     5.6.4.2.1   Note 2 and 3 and 4     5.6.8   Note 2     5.7.8   Note                             8.5.4.2.3   Note		· oo, Lo.	to 4.Z1		A V			Р
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2  8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5  Table 39  10.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note  Y.4.5 Note	A e	OTE Z1 The use lectronic equipm	e of certain substa			nnitek mit	E WHITE WHI	, ITE
Table 13       5.4.10.2.1       Note       5.4.10.2.2       Note       5.4.10.2.3       Note         5.5.2.1       Note       5.5.6       Note       5.6.4.2.1       Note 2 and 3 and 4         5.6.8       Note 2       5.7.6       Note       5.7.7.1       Note 1 and Note 2         8.5.4.2.3       Note       10.2.1       Note 3 and 4 and 5       10.5.3       Note 2         40.6.1       Note 3       F.3.3.6       Note 3       Y.4.1       Note	N	odification	to Clause 1					Р
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2  8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5  Table 39  10.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note	12 <sup>LTV</sup> .11			1 	AT AV		L 'n' d	1100
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2  8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5  Table 39	200	Y.4.5	Note					2.F
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2  8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2	MILTE	10.6.1	Note 3	F.3,3.6	Note 3	Y.4.1	Note	ALTER
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.8 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.8 Note 5.7.7.1 Note 1 and Note 2  8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2	71/2			Table 39	53.05T/67Ex			Mer
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4  5.6.8 Note 2 5.7.8 Note 5.7.7.1 Note 1 and	* 55	8.5.4.2.3	Note	10.2.1		10.5,3	Note 2	£
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4	المالي المالية					81.	Note 2	I an
Table 13  5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note  5.5.2.1 Note 5.5.8 Note 5.6.4.2.1 Note 2 and 3	,t	5.6.8	Note 2	5.7.6	Note	5.7.7.1	AND A SELECTION OF THE PROPERTY OF THE PROPERT	
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note	MITER	J.U.Z.1	INOTE	3.0.0	INOTE	0.0.4.2.1	The second secon	O LIER
Table 13	701.				X 26 X X			-211
	- NI EV	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	NITE!
5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Note	, 201.	Table 13		2012/2000/03/03	4557474375555	300 300000 5000000	000-0000050000	AVE
	EK A	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	6- 4
5.2.2.2 Note 5.4.2.3.2.2 Note c 5.4.2.3.2.4 Note 1 and 3 Table 12	NITER W	5.2.2.2	Note		Note c	5.4.2.3.2.4	Note 1 and 3	15 EN
3.3.8.3 Note 1 4.1.15 Note 4.7.3 Note 1 and 2	271	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	pared of the thick-coats		COSCORNO (E)	DESPOSATO PRODE		21
0.2.1 Note 1 and 2 1 Note 4 and 5 3.3.8.1 Note 2	SLIEL							LIEK



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Clause	Requirement – Test	WELL MULT MY ME	Result – Remark	Verdict	

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
antiek white white whitek whit	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	mains mains	SUPLIFIES OF THE SUPLIF
c white	providing protection in accordance with the rating of the wall socket outlet.	te stile with wife we	NIA
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



N/A

Ρ

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Requirement – Test	Result – Remark	Verdict
The the table to		Veruici
	A STEE METERS WITH	The Me
Add the following after the first paragraph:	20, 20,	N/A
For RS 1 compliance is checked by measurement under the following conditions:	MILIER WHITER WHITER	MULLE MULL
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.	LIFER WALTER WALTER WALTER	EX WHILE WHILE
NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	WILLER MUTER MUTER	MITEN WALTE
The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	TEX WHITEK WHITEK WH	THE WALTER ON
Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	WALTER WALTER
For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	it while while whi	et water wa
	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.  NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.  The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.  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.  For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	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.  NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.  The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.  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.  For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.

G.7.1

10

**Add** the following note:

**Modification to Bibliography** 

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.



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		- Luge co of the	
20,		EN IEC 62368-1	211 211
Clause	Requirement – Test	Result – Remark	Verdict

alle	THE THE THE MET WITH WITH WITH	an.
All the	Add the following notes for the standards indicated:	Р
ALTEX WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTE	IEC 60130-9   NOTE   Harmonized as EN 60130-9     IEC 60269-2   NOTE   Harmonized as HD 60269-2     IEC 60309-1   NOTE   Harmonized as EN 60309-1     IEC 60364   NOTE   some parts harmonized in HD 384/HD 60364 series     IEC 60601-2-4   NOTE   Harmonized as EN 60601-2-4     IEC 60664-5   NOTE   Harmonized as EN 60664-5     IEC 61032:1997   NOTE   Harmonized as EN 61032:1998 (not modified)     IEC 61508-1   NOTE   Harmonized as EN 61508-1     IEC 61558-2-1   NOTE   Harmonized as EN 61558-2-1     IEC 61558-2-6   NOTE   Harmonized as EN 61558-2-6     IEC 61643-1   NOTE   Harmonized as EN 61643-1     IEC 61643-311   NOTE   Harmonized as EN 61643-21     IEC 61643-321   NOTE   Harmonized as EN 61643-321     IEC 61643-331   NOTE   Harmonized as EN 61643-331     IEC 61643-331   NOTE   Harmonized as EN 61643-331	MILTER WILLER  WILLER
"NUTY"	and the the the ten the ten the	Mur
11	ADDITION OF ANNEXES	Р
ZB 4.1.15	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)  Denmark, Finland, Norway and Sweden  Not directly connected to the	P N/A
INC. JOH JEK JUNITE JUNITEK JUNITEK JUNITEK JUNITEK JUNITEK JUNITEK	To the end of the subclause the following is added:  Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."  In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat	TEX WHITEX  WHITEX  WHITEX  WHITEX  WHITEX  WHITEX
ner in	uttag"	ine m
4.7.3	United Kingdom	N/A
at Mrites	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	MULTER
WILLER A	assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	WALLEY W



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Clause	Requirement – Test	Result – Remark	Verdict	

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	White
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	street waters waters waters	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	es unite unite unit u	ne was
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult mi	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	united white white white	JUNE .
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	511 EX
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	MITEL WILL MILLER WILL	EK MUTIEK
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound	MULTER MILIER	Whitek o
	completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whitek wh	ing murit
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WALTER WALTER WALTER	White w
	and white white white white white	at the the there	NI EK NIVÎ
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULES WILLES WAS	IEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	WILLER MUTTER MUTTER MUTTER	- JALTEK V
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	un'il un' LIFX unlif
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	TELY STEEL STEEL SOLE	EX WILLEX



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- 20,	EN IEC 62368-1	in the sales	20, 1
Clause	Requirement – Test	Result – Remark	Verdict
- NV -	testing, is tested with an impulse test of 2,5 kV	white mile me	The Th
	defined in 5.4.11;	MITES WALTER WALTER OF	Write White
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	street united united whi	JEK WALTER O
ek walter	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITEK WHITE	Auri Ex Aur
5.5.2.1	Norway	TEX JEX JER	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mr.	it lit
ALT AN	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILIER WHITE WHITE W	et let
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	of miles whiles whiles	WALLEY WAL
	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.	Whilet whilet whilet	INLIER WALTER
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification:	TE WALTER WALTER WALTER	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WHITEK WHITEK W	ALTE MALT
5.6.4.2.1	Ireland and United Kingdom	at at set o	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:	THE MULT WALL MALL	71 71
er write	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.	MALTER WALTER WALLES	write wri
5.6.4.2.1	France	LIER NUTER INLIER	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	WILEY MUTER MUTER AND	itek mitek.
5.6.5.1	To the second paragraph the following is added:	The Maria Maria Maria	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	MULTER WALTER WALTER	MULLY MULL



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EN IEC 62368-1				mere m	in the
Clause	Requirement – Test	ave, and an	Result – Remark	at A	Verdict

The same	Mr. Mr. J.	it with mit with which	apr.
5.6.8	Norway	74	P
	To the end of the subclause the following is added:  Equipment connected with an earthed mains plug	united white united white	MULL N
	is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.		ner white
5.7.6	Denmark	Mr. Mr. Mr.	Р
	To the end of the subclause the following is added:	Whitek Whitek Whitek White	White
antier vi	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Mites Whites Whites Whites.	nniite un
5.7.6.2	Denmark	TEX STER STEEL WITE WA	P.I
	To the end of the subclause the following is added:		ex NITEX
TEX.	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.	whit with with all	VAN TITES
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added:  The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building.  Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.  It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	LIER WHITEK	NITER WALTER
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	A WHITE WHITE WHITE WILL WILL	ek whitek
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a	WILL WILL WILL WILLEY	Write AN
	connection to protective earthing – and to a television distribution system using		TEK JE
	coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided	the mail mail and	it ites
	through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	White white white white	MALTER W
	NOTE In Norway, due to regulation for CATV-installations, and	aver mer me in	200



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EN IEC 62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				
ar i	AT THE ST	ALTER WITH WILL MA	240				
MUTIEK AU	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	NITER WITER WITER WHITE	Y WILLER				
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	street miret whiret whirest	WALTEK W				
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	EX WHITEX WHITEX WHITEX WHI	E WAITE				
he white twhitet	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	MITER WHITE WHITE WHITEK WAS	on liter on the literature of				
3.5.4.2.3	United Kingdom	No external circuits.	N/A				
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	the ality whitek whitek	Whitek Mi				
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A				
B.4 No. Suntification of the control	The following is applicable:  To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	mains	AND TEX SULTEX OUT				
G.4.2	Denmark  To the end of the subclause the following is added:	Not directly connected to the mains	N/A				
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	TEX WHITEK WHITEK WHITEK	WIEK WA				
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	Whitek whitek whiteh wh	ynu.				



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100	EN IEC 62368-1		3	
Clause	Requirement – Test	Result – Remark	Verdict	
Mes	The the the the	the city with one was	- an-	
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	THE THE LIFE NATE	W. WITEK	
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	SUPER WHITE WHITE WHITE	WALTER WAL	
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	Whitek whitek whitek whitek	E WALTER	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX MUTER MUTER MUTER	un litek win	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	A THE WALTER WALTER WALTER	er en viver	
	Justification: Heavy Current Regulations, Section 6c	What was a street with the	MITEK	
G.4.2	United Kingdom	Not directly connected to the	N/A	
ek walif	To the end of the subclause the following is added:	mains	NIE WA	
MULTER ON	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.	JEER WHITER WHITER WHITER	SE WALTE	
G.7.1	United Kingdom	L at at let	N/A	
	To the first paragraph the following is added:	The merit and and	771	
	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.	JEK WHITEK WHITEK WHITEK	WALTER WA	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	anifek whitek whitek wh	TIES WALTE	



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EN IEC 62368-1

Clause	Requirement – Test	Result – Remark	Verdict		
are ar	The second second	The main wall was	201		
INTER WHITE  WHITE  WHITE	Ireland 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	antifek whitek w	N/A		
PLIFF WATE	Ireland and United Kingdom  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.	MITER WHITE WHITE WHITEK	N/A		
. 67	ANNEX ZC, NATIONAL DEVIATIONS (EN)				
untick was	Germany The following requirement applies:  For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.  NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	No CRT within the equipment.	N/A  N/A  N/A  N/A  N/A		
nitek uni Cek itek	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-	FLEXIE	BLE CORDS (EN)		



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

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



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in an	74, 24, 2, 2	EN IEC 62368-1	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classification	TABLE: Classification of electrical energy sources								
Supply	Location (e.g.	Parame	ES							
Voltage	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class			
5Vdc	The EUT is	Normal	<60Vdc	# - #	SS	CODC CO	ES1			
	designed to be supplied by Type	Abnormal	antife and	The state of	10 - 7	20	(Declar ed)			
	C	Single fault – SC/OC	STEE ST	ik <u>t</u> ek wi	LIEK-WA	EK WALTER				
4.2Vdc	The EUT is	Normal	<60Vdc	T.	SS	DC	ES1			
inet unitest	designed to be supplied by	Abnormal	TER TITE	MALTE WALE	120	21/2 21	(Declar ed)			
	Internal Li-ion battery	Single fault – SC/OC	- CIER	LIEK - NLIEK	MLTEX	UNLIEN WILL	ek Juni			

## Supplementary information:

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

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

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Working	voltage measu	rement		N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
-Mr. Mr. Mr. 201	. J. 4	et seet se	EF 15 TE OI	The Mur Mur Mur
- TEK STEK STEK SKITE	Will are	20, - 20,		et let the little
Supplementary information:				
Supplementary Information:	unti wa	70 7.		at at the

AV AV AV	
306 / B50	—
ness (mm) T softening	(°C)
Mr. Mr. Ang A	
	kness (mm) T softening

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



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			EN IEC	62368-1	17 E. 11			
Clause	Requiremen	t – Test	The M		Result	– Remark	, est	Verdict
Me	41, 41,		J	6 <sup>th</sup> 33	, J		12 M	ra alla
et		-TER MITE	WELLE ME	2115	100		, <del>t</del>	d - dt
Suppleme	ntary informatio	n:	·					
. A.	Et Tet	LIER OLITE AN	Lite Mali	20,	20,	*	الد يا	- ZEX

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)
- INTIE MILL WALL WALL	alle	40.	- ,		Note:	(1814 15)	er wite	MITTE.
O								

Supplementary information:

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

5.4.4.2	TABLE: Minimum	distance through insul	lation	MULT WILL	N/A
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
	SER SER SE	WILL WILL MAN	141 - 251		et - et
Supplemen	tary information:				
*See also s	ub-clause 5.4.4.9	A JUNE OF			et let i

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz									
Insulation material	<b>E</b> P	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)			
- INTIE WHIT WILL W	- Mr.	- 4	# 11	-TEK TE	- NITER OF	CE MALTE			
Supplementary information:									
WILL WILL WALL MAN	24	, ,,,,,,,,		CENT SEPT	JEE RE	and a			

5.4.9	TABLE: Electric strength tests	at at let	ITEK NITEK MIT	N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	THE MET MET AND THE	e at alt a	y lifet alien.	NITE WALTE
- 4	EX TEX STEX BLIEF WHILE	FULL MUT MAN	- 201	et <del>ze</del> t .
Basic/suppl	lementary:	LIER NITER MITER	WHITE WHITE WHI	in and an
TEN SITEN	MITER WALTER WALTER WALE	h	- 10th 10th 15th	t still mile
Reinforced:	et let tet nitet in	LIER WALTER WALTER OF	Ur. Mur. Mur.	711 24
- White a	NUTT AND MET AND	a- at let o	St NIET WIFE	Write Avite
Routine Tes	sts: TEL TEL MITER WILL	mer mer m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Et TEK
the m	WIN THE TEXT	-ITEK MITEK MITE	-Write Murie M	r. 115, 14



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

20, 2			_1						100	10,	100	
Supplement	ary inforn	nation:										
mr m	-24	₹	`.;+	All the	TEX	-NLIER	MITE	MARIA	MULL	ALL	240	24

5.5.2.2	TABLE:	Stored discharge of	on capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
OLITER -	NITE W	The me	Normal	t zet .	Tet Jet "	LTER JACTE
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	TEK J	L STEK- WITER	Single fault: SC/ OC	mr - m	A) A	et set

1/		. : 4 - 111	£	4 4:	
х.	-capacitors	installed	TOT	TESTING	are:

 bleeding	rootor	rotina:

[] ICX: 1) Normal	l operating conditi	on (e.g., norr	nal operation	, or open fuse)	, SC= short	circuit, OC=	open
circuit							

5.6.6 TABLE: Resis	tance of protective condu	uctors and terminati	ions	N/A
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance $(\Omega)$
Err Aur IV III	7 A 1 - A	(1 <sup>th</sup> 1 <sup>th</sup>	Intile with	in in
Supplementary information:				
in in in	The state of the s	THE THE LITT	mile while	Mr. Mr.

5.7.4	TABL	E: Unearthed accessible parts						
Location		Operating and	Supply	F	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	11/15 - 11/1	- *	1 - 1 th	19th	17 <sup>EH</sup> 117	
terminals	Abnormal: overload	LIEK WALTER	Murie Antie.	ner the	1. — 11	EK JEH		
		Single fault: SC/OC	EK WILEK W	LIER WILLES M	rie Mrri M	-01	2 <u>11</u>	
Supplemen	ntary info	ormation:						
SC- short	circuit: (	C= open circuit	- 37 3	ar ar	24, 20,			

5.7.5	TABLE: Earthed acces	sible conductive part	ible conductive part					
Supply vo	Itage (V)	The state of the s	A 15	et set s				
Phase(s)		[] Single Phase; [] Three	Phase: [ ] Delta	[] Wye				
Power Dis	stribution System	[] TN []TT []IT	L AL D					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt			
-25	Ver The The The	1 L 1+	1th 1th	JE JI.	1000			



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L m	711 70 4	EN IEC 62368-1	Verdict
Clause	Requirement – Test	Result – Remark	Verdict

Metal enclosure	THE ST	ne	eutral open	201	0.024		ES1	, et
Supplementary Informat	tion:							
	LEK LEK	JET	NITE WALL	n.	-10.	2,		.4_

5.8	TABLE	TABLE: Backfeed safeguard in battery backed up supplies									
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class				
(TE)	ALTER O	NIE JALIE	Wer The M	7	74 A	Λŧ <sup>†</sup> .	TEN TIEN				
Supplementary information:											
TELL	CIER OLI	in with a	WE AWE AN	~ ,	- J-	LET LE	t JET S				

6.2.2 TAI	BLE: Power source	e circuit classifi	ications			P C
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Cell	Output pin + to -	2.9	8.0	23.2	58	PS2
Battery	Output pin + to -	3.2	6.5	20.8	5S	PS2
Battery board	Signal fault (U1 pin 2-1 SC)	0*	0*	0*	38	PS1
Battery board	Signal fault (U1 pin 2-6 SC)	0*	0*	0*	38	PS1
Battery board	Signal fault (R2 SC)	0*	0*	0*	38	PS1
Speaker output	Output pin + to -	1.59	0.398	0.63	38	PS1

## Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

- 1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.
- \* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1	TABLE: Determ	TABLE: Determination of Arcing PIS N/A									
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No						
- 20,	J. J.	et alt alter	Write Marie Mus	m m	40 7						
Supplementary information:											
20. 0	. 4 .	· it it is	The Will War.	211. 211. 1	2.						

	TABLE: Determination of resistive PIS						
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No				
All primary circuits/components	THE WALL VINE WALL WALL WALL	t lit lit lit	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.



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July Alexander	Any Any Any	EN IEC 62368-1	in and
Clause	Requirement – Test	Result – Remark	Verdict

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

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

8.5.5	TABLE: H	ABLE: High pressure lamp								
Lamp manufacturer		Lamp	Lamp type Explosion me		method	thod Longest axis of glass particle (mm)		Particle found beyond 1 m Yes / No		
THE WALL	The MILES	MrMr.	24,		I st	, et	TEK	JEH 1	CLEAN	مالين الم
Supplementary information:										
LIFE WITE	wer w	Vr. 21/2	211.		et	jet .	TEN S	SER RES	-11°	THE MALL

	10. 0.				J. J.	transmitte	11 1	- N
Supply voltage (V)	)			are al	in the	20,	20	_
Max. transmit pow	er of transr	nitter (W)					LIER O	_
	w/o receiver and direct contact			eiver and contact	with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel sheet	25.1	24.9	53.7	24.8	52.1	24.8	48.9	24.8
Aluminum foil	25.1	24.9	52.1	24.8	51.0	24.8	47.1	24.8
Aluminum ring	25.1	24.9	52.1	24.8	50.3	24.8	47.2	24.8
Supplementary info	ormation:							

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements								
Supply voltage (V)	Condition	Condition 2	Condition 3	Condition 4	Condition 5	_			
Ambient temperature during test $T_{amb}$ (°C)	See below	See below	See below	See below	See below	_			
Maximum measured temperature <i>T</i> of part/at:		T (°C)							
PCB near U2	44.5	58.6	60.8	61.0	57.9	130			
PCB near U8	46.6	60.8	67.0	68.2	60.7	130			
PCB near C1	46.3	53.3	58.4	64.0	53.5	130			
PCB near L2	46.4	55.9	72.9	75.9	55.7	130			
PCB near CBB	44.0	48.3	51.5	62.8	50.9	130			



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			, t	N IEC 623	68-1			
Clause	Requirement -	- Test	ile aver	20	Resu	ılt – Remark	L At	Verdict
3/12 1	70. 70.		عد د	A CONT	JET .	The William	West of	Ve. 100
Surface of I	oattery	LIER MLT	42.9	43.9	45.7	46.1	43.4	Ref.
Internal wire			42.8	43.2	45.0	45.2	43.1	80
Wireless winding			40.4	40.2	40.5	61.8	40.4	130
Internal enclosure near battery			42.2	43.0	44.3	44.9	42.9	- 80 · · · ·
Ambient			40.0	40.0	40.0	40.0	40.0	JEH 11
Accessible	parts	+	et di	- CLIET	WILL W	Vr. Avr.	Mr.	en en
External wo wireless wir	ooden enclosure nding	near	25.1	25.2	25.3	42.0	25.2	107*
External pla	astic enclosure r	ear	25.1	26.4	28.1	28.3	25.8	77*
Ambient	t 18t 18	Y JEH	25.0	25.0	25.0	25.0	25.0	
Temperatu	re T of	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2\left(\Omega\right)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
t William	WITE WILL	un <sup>u</sup> '- ul	-70		7-	A- A	t <u>-</u> et	LITER - CLIFE

#### Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 40°C.

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

Note 3:

Condition 1: Only charge with internal empty battery

Condition 2: Only discharge with internal fully battery(Only play music).

Condition 3: Only discharge with internal fully battery(Only USB load 5Vdc 2A).

Condition 4: Only discharge with internal fully battery(Only wireless charging load 10W).

Condition 5: Charge while working mode(only play music) with internal empty battery.

5.4.1.4, 9.3, B.1.5, B.2.6	perature measurements							
Supply voltage (V)	Condition 6	- 74	nu n	EF TE	LIEK	_		
Ambient temperature during test $T_{\text{amb}}$ (°C)	See below	Mr.	mii - un		701 3			
Maximum measured temperature <i>T</i> of part/at:		Allowed T <sub>max</sub> (°C)						
PCB near U2	69.8	46th 5	# TIEF	WILLER OR	LIE TOPLE	130		
PCB near U8	60.7	-11.	40,		t - 15t	130		
PCB near C1	57.4	Et -JEH	.c.LTER	ilie - mil	Mary	130		
PCB near L2	68.7	44	20 -	x - x	, to 1	130		
PCB near CBB	57.0	CLEAR .	NITE - WILL	J-Chillian	21/15 - 21	130		
Surface of battery	64.3	20, - 2	A - A	- <del> </del>	All J	Ref.		

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



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" alex all	20.	-		EN IEC 623	68-1	inlike wil	MULL	any any
Clause Requir	ement -	- Test	The Miles	2/1	Resu	ult – Remark	L. L.	Verdict
Mrs. May 1	<i>y</i> ,			All the	50°	Cler Will	NO 1	he m
Internal wire	JEK .	LTER INL	64.2	11/2- 1	20	7-7	,√E	80
Wireless winding		, ,,	60.6	, J	76th <del></del> 757	IN LITTER .	write - wi	130
Internal enclosure n	ear batt	ery	56.8	10 - 11	1 1	T.	Jr - 16	80
Ambient		40.0	EK - SITE	THE STATE	MILLE ON	in min	41/2, - 411.	
Accessible parts	WITE.	WILL O	ur, au	- 70,	7	- A A	* 18*	TEN LIFE
External wooden en wireless winding	closure	near	35.6	WATER.	MULIEN A	War Aura	Mu".	107*
External plastic enc battery	losure n	ear	31.6	WVILLER M	LIEK-UNI	I's Marie	Mr M	77*
Ambient	in.	-71/-	25.0	J.E.	# - E	t state	ران <del>- "اراز</del>	11 2 W
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
70 10		7.	,d	Et -1150	with.	anis - ans	-2/2	211 22
Supplementary info	rmation:							

<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  $40^{\circ}$ C.

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

Note 3:

Condition 6: Speaker normal working and wireless 10W by Type C port.

B.2.5	TA	BLE: Inp	out test	WITEE.	Wr. M	U. 7	11 21	P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Condition	1: Or	nly charge	e with interr	nal empty	battery	F 20	t de	LITER MITTER MALTE MALTE W
5.0Vdc <sup>1)</sup>	7	1.45	Z 2	7.3	W. C.	an and a second	an.	Battery charge current: 1.63A
Condition	2: Or	nly discha	arge with in	ternal full	y battery(0	Only play	y music).	alifer outil with wall wall
4.2Vdc <sup>2)</sup>	y viil	0.28	ek - Tek	1.176	nitek w	ur <u>"</u> Liek M	er va grek grek	BT mode: 1/8 of max. non-clipped output power with 1KHz signal input. Speaker: 0.562V*1 Battery discharge current: 0.28A
4.2Vdc <sup>2)</sup>	LIE!	0.82	ANLIEK WALIF	3.444	se <mark>u</mark> nci 6 unciek unciek	white.	white!	BT mode: 100 %of max. non- clipped output power with 1KHz signal input. Speaker: 1.59V*1 Battery discharge current: 0.82A
Condition	3: Or	nly discha	arge with in	ternal full	y battery(0	Only US	B load 5\	/dc 2A).
4.2Vdc <sup>1)</sup>	-,	3.6	NACT.	15.12	e, ,		A	Battery discharge current: 3.6A
Condition	4: Or	nly discha	arge with in	ternal full	y battery(0	Only wire	eless cha	irging load 10W).
4.2Vdc <sup>1)</sup>	(L)(V)	4.5	11/12 N	18.9			ن ب	Battery discharge current: 4.5A



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ď	C. M. C.	Mr. Mr. M. A.	EN IEC 62368-1	TEL WILLEY WALLEY WALLE	anti anti
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

Condition	5: C	harge while	e working	mode(only	play mu	isic) with	internal	empty battery
5.0Vdc <sup>1)</sup>	ICY IEX	1.47	2 Lifet wh	7.35	ynties writes	white!	WALTER .	BT mode: 1/8 of max. non-clipped output power with 1KHz signal input. Speaker: 0.562V*1 Battery discharge current: 1.35A

## Supplementary information:

B.3, B.4 TA	ABLE: Abnorr	nal operating	g and fau	ılt condit	ion te	sts	Alt Alt	P
Ambient temp	erature T <sub>amb</sub> (°	C)	<u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>:</u> (1	See below	me me	_
Power source	for EUT: Man	ufacturer, mod	del/type,	outputrati	ng :	e d	TEX TEX	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse	e current (A)	Observat	ion
Condition 1: O	nly charge wit	h internal em	pty batter	У	CLIE	WILL WY	in in	24,
Q2 pin G-S	SC	5Vdc <sup>1)</sup>	7hrs		TEX-	Mitet white	Unit shut down immediately. No no hazard. Reco Battery charge c 1.63→0.001	verable.
U1 pin 18-24	SC	5Vdc <sup>1)</sup>	7hrs	Whitek EH	ounité TEX	white w	Unit shut down immediately. No no hazard. Reco Battery charge c 1.63→0.001	verable.
L1	SC White	5Vdc <sup>1)</sup>	7hrs	ne - v	eh Eh	on on the	Unit normally wo damage, no haza Recoverable. Battery cell charg current(A): 1.63	ard.
R1	SC	5Vdc <sup>1)</sup>	7hrs	WALTER.	White A	Whitek My	Unit shut down immediately. No no hazard. Reco Battery charge c 1.63→0.001	verable.
MC1 Whiteh	SC white	5Vdc <sup>1)</sup>	7hrs	ilie <mark>r</mark> vii Ek	it vin	unize unizek	Unit shut down immediately. No no hazard. Reco Battery charge c 1.63→0.001	verable.
R22	SC SC SC STEEL S	5Vdc <sup>1)</sup>	7hrs	unitek unitek	MALTE	MULIE W	Unit shut down immediately. No no hazard. Reco Battery charge c 1.63→0.001	verable.
Ventilation	Blocked	5Vdc <sup>1)</sup>	1H	A	РСВ	near	Unit working non	mally.

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



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ď	C. M. C.	Mr. Mr. M. A.	EN IEC 62368-1	TEL WILLEY WALLEY WALLE	anti anti
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

openings	MULTER WAS	NIEK WALTER	08min	ing v	U8:50.5°C External plastic enclosure near battery:26.0°C Ambient:25°C	No damage, no hazard. No higher temperature rise exceeding its limit occurred. Battery charge current(A): 1.63A
Condition 2: On	ly discharg	e with internal	fully batter	у		
U2 pin 1-8	SC	4.20 Vdc <sup>2)</sup>	7hrs	WALTER W	unite united uni	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A):3.6→0
Q3 pin G-S	SC **	4.20Vdc <sup>2)</sup>	7hrs	EK-VUNITER	White white	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 3.6→0
C13	SC	4.20Vdc <sup>2)</sup>	7hrs	unliek liek	CLEEK WALTER WALT	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 3.6→0
U3 pin 2-16	SC IN	4.20Vdc <sup>2)</sup>	7hrs	aliest	OLIF MALE	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 4.5→0
Q4 pin S-D	SC	4.20Vdc <sup>2)</sup>	10mins	MITER V	PLIER MULTER MAN	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 4.5→0
R16	SC	4.20Vdc <sup>2)</sup>	10mins	John John John John John John John John	Whitek whitek	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 4.5→0
U4 pin 1-9	SC +	4.20Vdc <sup>2)</sup>	10mins	un <u>i.</u> Litek M	one on one	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 0.28→0
C30	SC WALES	4.20Vdc <sup>2)</sup>	10mins	MUNITER	MULTER MULTER	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 0.28→0
USB Output	OL	4.2Vdc <sup>2)</sup>	50mins	ini <del>ter</del> Jek "N	PCB near U8:67.3°C External plastic enclosure near	USB output maximum load 2.8A, Over 2.9A, EUT Unit shut down, no danger and



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ď	C. M. C.	Mr. Mr. M. A.	EN IEC 62368-1	TEL WILLEY WALLEY WALLE	anti anti
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

MUTTER MUTTE		TEK WITE L EK	antil 3		battery:29.2°C Ambient:25°C	no damage. Battery discharge current(A): 4.8A
Wireless Output	nnt OL <sub>M</sub> itter	4.2Vdc <sup>2)</sup>	1hrs 36mins	WINTER	PCB near U8:70.0°C External wooden enclosure near wireless :53.1°C Ambient:25°C	Wireless output maximum load 1.72A, Over 1.8A, EUT Unit shut down, no danger and no damage. Battery discharge current(A): 4.95A
Speaker	100% of max. available output power	4.2Vdc <sup>2)</sup>	1hrs 36mins	unire	PCB near U8:67.3°C External plastic enclosure near battery:29.2°C Ambient:25°C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Speaker: 1.59*1 Battery discharge current(A): 0.82
Speaker	SC	4.2Vdc <sup>2)</sup>	10mins	ynitek Liek al	untitek untitek unt	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery discharge current(A): 0.28→0.02
USB output	SC	4.2Vdc <sup>2)</sup>	10mins	MITER	White white will	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery discharge current(A): 3.6→0.02
Wireless output	WASC WASTE	4.2Vdc <sup>2)</sup>	10mins	iek unir vunir	AND TEK WHITEK	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery discharge current(A): 4.5→0.02
Ventilation openings	Blocked	5.0Vdc <sup>1)</sup>	1hrs 04mins	MA <u>".</u> LEEK W EK MAT	PCB near U8:74.5°C External wooden enclosure near wireless:56.0°C Ambient:25°C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Battery charge current(A): 4.5A
Condition 3: C	harge while w	orking mode	with intern	al empt	y battery	VII MUL MUL AND
Speaker	100% of max. available output	5.0Vdc <sup>1)</sup>	2hrs 04mins	M <u>.</u> Difek Tek	PCB near U8:67.3°C External plastic enclosure near battery:29.2°C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred.



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

WALTER WALTE	power	TER WALTER	MULTE	un" (	Ambient:25°C	Speaker: 1.59*1 Battery charge current(A): 0.81
Ventilation openings	Blocked	5.0Vdc <sup>1)</sup>	1hrs 04mins	MULTER AND LIFE	PCB near U8:50.5°C External plastic enclosure near battery:26.0°C Ambient:25°C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Battery charge current(A): 1.64A
Speaker	SC	5.0Vdc <sup>1)</sup>	10mins	ALTE VANI	n ste water water	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery charge current(A): 1.65

#### Supplementary information:

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

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

- 1) SC: Short-circuited; OL: 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; Wooden material: 117°C;

M.3	TABLE: Pr	otection circu	its for batteri	es provided v	vithin the eq	uipment	Р			
ls it possi	ble to install the	battery in a re	verse polarity	position?:	s- Jek	TEX STEX	_			
				Char	ging					
Equipment Specification			Voltage (V)		Current (A)					
		All S	5Vdc	THE WALL	The Me	2				
		Battery specification								
		Non-recharge	able batteries		Rechargeable batteries					
		Discharging	Unintentional	Charging		Discharging	Reverse			
Manufacturer/type		current (A)	charging current (A)	Voltage (V)	Current (A)	current (A)	charging current (A)			
new en	i Cheng jiang ergy Co., Ltd/ 650-2000mAh	MULIEF M	TEX WHITEK	3.7	5	5	orek sitek			

Note: The tests of M.3.2 are applicable only when above appropriate data is not available.



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ď	C. M. C.	Mr. Mr. M. A.	EN IEC 62368-1	TEL WILLEY WALLEY WALLE	anti anti
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

Specified bat	tery tempera	ature (°C)	214		:	0	-55
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp.	Current (A)	Voltage (V)	Observation
Q2 pin G-S	SC W	Charge	7h	MULTER A	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
U1 pin 18- 24	SC SC	Charge	7h	ek metr	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
inti L1,inti	SC	Charge	7h	MULTER	1.63	4.20	Unit working normally, no damage, no hazard
R1.	SC JA	Charge	7h	MUTEL M	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
U2 pin 1-8	SC AND THE	Discharge		ek miter	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
Q3 pin G-S	MSC U	Discharge	7h	JUTEN	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
C13_	SC SC	Discharge	7h	iek until	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
U3 pin 2-16	SC W	Discharge	7h	VINITER VINITER	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.

Supplementary information:

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



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ď	C. M. C.	Mr. Mr. M. A.	EN IEC 62368-1	TEL WILLEY WALLEY WALLE	anti anti
	Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

M.4.2 TAB batte		feguards for	equipment c	ont	aining a se	econdary lithium	P	
Maximum specifi	ed charging voltag	ge (V)		ائ:	4.2	10, 10,	_	
Maximum specifi	ed charging curre	nt (A)		:	5	NUTER MITER	<del></del>	
Highest specified	charging tempera	ature (°C)	7	n,	55	20, 20,		
Lowest specified	charging tempera	ture (°C)		;6	0 50	WILL MULTER WA		
Battery	Operating		Measuremer	nt		Observati	on	
manufacturer/type	e and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)			
Lowest specified	charging temperat	ure: 0°C	LET LET		CIENT SITE	it miles while	antin an	
Jiang Xi Cheng jiang new energy Co., Ltd/ INR	Normal	4.20	1.3	tei	Battery mperature: -1°C	The battery charging decreases	ng current	
18650-2000mAh	Abnormal– 100% of max. available output power under condition 5	4.20		Battery temperature: -1°C  The battery charging of decreases		ng current		
TEX MUTER MY	Single fault – (R1 SC under condition 1)	4.20	0.001	tei	Battery mperature: -1°C	The battery charging curre decreases		
Highest specified	charging tempera	ture: 55°C		٠	Althor.	TEH LIEK NITE	Miller	
Jiang Xi Cheng jiang new energy Co., Ltd/ INR	Normal	4.20	0.001	tei	Battery temperature: 53.0°C The battery charging		ng circuit	
18650-2000mAh	Abnormal– 100% of max. available output power under condition 5	4.20	0.001	ter	Battery the battery charging stop charging 53.0°C		jing circuit	
white whitek w	Single fault – (R16 SC under condition 4)	4.20	0.001	tei	Battery mperature: 53.0°C	The battery charging stop charging	ng 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



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

Q.1	TABLE: Circuits inte	ended for inte	erconnection	n with buil	ding wiring	(LPS)	P
Output	Condition	11 ()()	Time 2 (2)	Iso	:(A)	S	(VA)
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
ir. Mer	Normal	5.1	-5S	3.1	8.0	14.38	100
USB output	Single fault – C13 SC/ <del>OC</del>	ant o an	5S	0	8 20	0.1	100
\\/\	Normal	9.12	5S	1.72	8.0	14.28	100
Wireless output	Single fault – C13 SC <del>/ OC</del>	0 5th	5S	LIER ONLIN	8	ULT O WA	100

SC = short circuit, OC = open

T.2, T.3, T.4, T.5	TABLE: Steady force test							
Location / Part	Material Thickness (mm)		Probe	Force (N)	Test Duration (s)	Observation		
Internal components (T.2)	la di	nirat-	Figure V.1 and Figure V.2	10 11184	11 5 - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No reduction the clearances and creepage distances		
Enclosure top(T.5)	Metal*	See table 4.1.2	TEX IN	250	et 5	Enclosure remained intact, no crack/ opening developed		
Enclosure top(T.5)	Wooden*	See table 4.1.2	" # .JP	250	5	Enclosure remained intact, no crack/ opening developed		
Enclosure side(T.5)	Plastics*	See table 4.1.2	- 14 - 14	250	5	Enclosure remained intact, no crack/opening developed		
Enclosure bottom (T.5)	Plastics*	See table 4.1.2	ME	250	5	Enclosure remained intact, no crack/opening developed		
Supplementa	ry information	on:						

T.6, T.9	ABLE: Impa	ct test		LEK TEK TEK TIEK MIT MP
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Metal*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Top	wooden*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	Plastics*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.



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in all	The state of the s	EN IEC 62368-1	They the
Clause	Requirement – Test	Result – Remark	Verdict

Supplementary information:

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

Г.7 Т.	ABLE: Drop	test		THE THE THE WITH WITH WITH BUT
ocation/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 Top	wooden*	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	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.

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

T.8	TABLE: Stres	s relief test			The The Aug Au B
Location/Par	t 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.

Supplementary information:

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

X	TABLE: Alternat	ive metho	d for o	determin	ing mir	nimum d	clearance	s distan	ces	N/A
	nce distanced etween:	Peak of working voltage (V)		Required cl (mm)			Measured cl (mm)			
I WALL	are are a	, <i>1</i> n,		st s	et .	(E* )	CIEN NO	ER WITT	( <sub>N</sub> -C	MULL
Supplement	ary information:									
Mr. M	7 24 24 24 A	120.	12	+ 10+	- 56	* (I'	* NITE	METER	Thr.	Mr. 4



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EN IEC 62368-1						
Clause	Requirement – Test	Note that the to	Result – Remark	Verdict		

4.1.2	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Plastic enclosure	CHI MEI CORPORATION	PA-765(+)	V-0, min. thickness: 1.5mm, 80°C	UL94	UL E56070
PCB	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL
Internal wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, Min. 30AWG, VW-1	UL 758	UL
Battery lead wire	Interchangeable	Interchangeabl e	Min. 30V, min.80°C, 26AWG	UL 758	UL TEX
Internal Li- ion battery	Jiang Xi Cheng jiang new energy Co., Ltd	INR 18650- 2000mAh	3.7V, 2000mAh, 7.4Wh, 2Pcs	IEC 62133-2: 2017	UL Report no.: S- 21086166A0
Wireless winding	Shenzhen San Sheng Chuang Electronic Technology Co., LTD	A11	6.3uH/0.08*105P*10T S, Φ 50mmX5.3mmX0.8m m	IEC/EN IEC 62368-1	Tested with appliance
Speaker	Interchangeable	Interchangeabl e	Max. 3W, 4ohm, 2Pcs	IEC/EN IEC 62368-1	Tested with appliance

Supplementary information:

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



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# **Photo Documentation**



Figure 1: Overall view



Figure 2: Overall view



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# **Photo Documentation**



Figure 3: Overall view



Figure 4: Internal view



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# **Photo Documentation**



Figure 5: Internal view

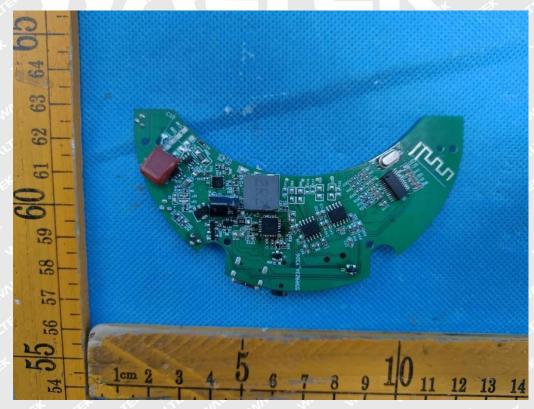


Figure 6: PCB view



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# **Photo Documentation**

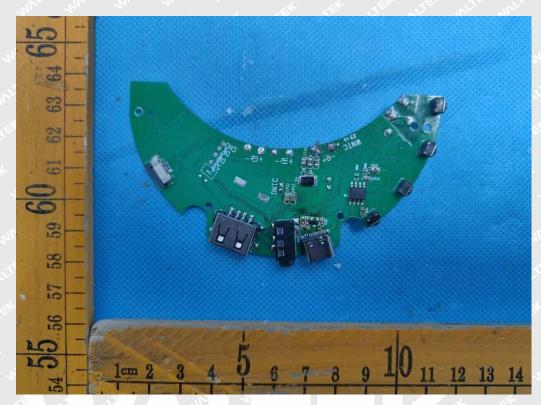


Figure 7: PCB view



Figure 8: PCB view



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# **Photo Documentation**

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Figure 9: Battery view

MATERIE

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