



# **TEST REPORT**

Reference No: WTF23D10230	UGUUY	Y(
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Applicant.....: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... : 116428

Address.....: : --

Product.....: 2x5W Speaker

Model(s)..... : MO2211

**Total pages**...... : 66 pages and 4 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample....: 2023-10-27

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

Test Result.....: Pass

#### Remarks:

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

# Prepared By:

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Compiled by:

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Approved by:

Almon Zhao / Designated Reviewer



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Test item description	: 2x5W Speak	er who was a second
Trademark	: МОВ	
Model and/or type reference	: MO2211	
Rating(s)	: 5VDC 500m	A intiff untiff white white white white
Remark:	Mr. M.	A LEK TEK STEK STEK MITER SIN
Whether parts of tests for the produ	ict have been sub	contracted to other labs:
☐ Yes		
If Yes, list the related test items and	d lab information:	
Test items:		
Lab information:		the the wife with many one was
Summary of testing:	The Mary My	
Tests performed (name of test ar	nd test clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020 The submitted samples were found	to comply with	No. 77, Houjie Section, Guantai Road Houjie Town, Dongguan City, Guangdong, China
the requirements of above specification		The street with the role of
	ents of EN IEC 62	368-1:2020+A11:2020 and BS EN IEC 62368-
Use of uncertainty of measurement	ent for decisions	on conformity (decision rule):
applicable limit according to the spe	ecification in that s	when comparing the measurement result with the standard. The decisions on conformity are made ble acceptance" decision rule, previously known as
Other:(to be specified, for exa requirements apply)	ımple when requir	ed by the standard or client, or if national accreditation
Information on uncertainty of me	asurement:	
		the laboratory based on application of criteria given by tethods, decision sheets and operational procedures of
the decision rule when reporting tes	st results within IE	of measurement uncertainty principles and applying CEE scheme, noting that the reporting of the ecessary 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.





### Copy of marking plate:

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



#### Remark:

- 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:	35°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)	⊠ Approx. 0.362kg



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POSSIBLE TEST CASE VERDICTS:	her any any any and any
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	And An
Date of receipt of test item:	See cover page
Date (s) of performance of tests:	See cover page
GENERAL REMARKS:	LIFE SLIFE WILL WALL WALL WALL WALL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to t	
Throughout this report a $\square$ comma / $\boxtimes$ point is u	sed as the decimal separator.
GENERAL PRODUCT INFORMATION:	t lifet niter mite until until until un
<ol> <li>Product Description</li> <li>The EUT covered by this report is a speaker used</li> <li>It is supplied by external power supply or by approcomplied with PS1.</li> <li>The manufacturer specified maximum ambient tem</li> <li>All circuits complied with ES1 and PS1, no other ci</li> <li>USB-A port only for data transmission.</li> </ol>	oved internal lithium-ion battery or USB type-C which operature is 35°C.



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Clause	Possible Hazard					
5	Electrically-caused injury					
Class and Energy Source	Body Part		Safeguards			
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R		
ES1: All internal circuit	Ordinary	N/A	N/A	N/A		
3	Electrically-caused fire					
Class and Energy Source	Material part	Material part Safeguards				
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S		
PS1: <15 Watt circuits	Enclosure	N/A	N/A	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 hazardous	substances				
Class and Energy Source	Body Part	Body Part Safeguards				
(e.g. Ozone)	(e.g., Skilled)	В	S	R		
Battery (See Annex M)	Ordinary	N/A	N/A	N/A		
3	Mechanically-caused injury					
Class and Energy Source	Body Part		Safeguards			
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R		
MS1: Edges and corners	Ordinary	N/A	N/A	N/A		
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A		
)	Thermal burn					
Class and Energy Source	Body Part		Safeguards			
e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R		
ΓS1: 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		

		11 - 12,			J	100	AY		V . N
			<b>ENERGY SO</b>	URCE D	IAGRAM				
Indicate which	n energy so	urces are inc	cluded in the en	ergy sou	rce diagram.	Insert dia	agram be	elow	
20,		☐ ES	☐ PS [	MS	☐ TS	☐ RS	20,	-2,,	- A
	See de	tails in OVE	RVIEW OF ENE	ERGY SC	DURCES AN	D SAFEG	UARDS		CLIER



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Unite Maria	The property	EN IEC 62368-	LIET MITER WHITE	MUTE MULL MITT
Clause	Requirement – Test	is the man	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P+
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JIP P
4.1.2 Military	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	ITEK WILTER
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	AL 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	- 1 Th. 14	Р
4.4.3.2	Steady force tests	(See Annex T.4 and T.5).	II Port
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
rii. Mur.	Glass impact test (1J)	LIEK NITER WHITE WHITE	N/A
et et	Push/pull test (10 N)	n n	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	at at at a	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	ALD ALD
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. Mr. M. D.	P
4.5.1	General White white white white white	No explosion occurs during normal/abnormal operation and single fault conditions	Р
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	AL. P



N/A

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	EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict			
Me	AN AN ANT ANT AND	the life will and an	is the			
<i>A</i>	condition	20, 20,	+ 4			
	No harm by explosion during single fault conditions	(See Clause B.4)	W P			
4.6	Fixing of conductors	See below	Р			
	Fix conductors not to defeat a safeguard	The August Augus	Р			
IET WALTE	Compliance is checked by test	(See Clause T.2)	Pr			
4.7	Equipment for direct insertion into mains socket–outlets					
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A			
4.7.3	Torque (Nm)	Mr. Mr. Ar.	N/A			
4.8	Equipment containing coin/button cell batteries	S LIER SLIER WALTER WALTE	N/A			
4.8.1	General	No coin/button cell batteries used.	N/A			
4.8.2	Instructional safeguard	In the the	N/A			
4.8.3	Battery compartment door/cover construction	the little outlier ou	N/A			
	Open torque test	Mr. Mr. A.	N/A			
4.8.4.2	Stress relief test	LIER OLIER WILL WAL	N/A			
4.8.4.3	Battery replacement test		N/A			

5	ELECTRICALLY-CAUSED INJURY		
5.2	Classification and limits of electrical energy sou	irces	P
5.2.2	ES1, ES2 and ES3 limits	All internal circuits are considered to be ES1	WALL P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A

Likelihood of fire or shock due to entry of conductive object

4.8.4.4

4.8.4.5

4.8.4.6

4.8.5

4.9

4.10

4.10.1

4.10.2

Drop test

Impact test

Crush test

Compliance

30N force test with test probe

20N force test with test hook

**Component requirements** 

**Disconnect Device** 

Switches and relays



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
5.2.2.7	Audio signals	The Aut on a	P		
5.3	Protection against electrical energy sources	- TEX TEX STEX OUT	N/A		
5.3.1	General Requirements for accessible parts to	Mr. Mr. Mr. M.	N/A		
5.0.1 No.11	ordinary, instructed and skilled persons	TER LIER WITER WITER	White M		
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	he me me	N/A		
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	TEX MULTER MULTER MULTER V	N/A		
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit	N/A		
Clerk N	Accessibility to outdoor equipment bare parts	at at let de	N/A		
5.3.2.2	Contact requirements	write mrs. Mrs. Mrs.	N/A		
LIEN NLIE	Test with test probe from Annex V	at test test with	_		
5.3.2.2 a)	Air gap – electric strength test potential (V)	in mer mer me	N/A		
5.3.2.2 b)	Air gap – distance (mm)	EX TEX TEX STEEL	N/A		
5.3.2.3	Compliance	The me me	N/A		
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A		
5.4	Insulation materials and requirements	Mr. Mr. A.	Р		
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A		
5.4.1.3	Material is non-hygroscopic	1 1 1	N/A		
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	Р		
5.4.1.5	Pollution degrees	* TEX LITER WITER	N/A		
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	the the the	N/A		
5.4.1.5.3	Thermal cycling test	white him have an	N/A		
5.4.1.6	Insulation in transformers with varying dimensions	et tet tet stet stet	N/A		
5.4.1.7	Insulation in circuits generating starting pulses	by my my m	N/A		
5.4.1.8	Determination of working voltage	Et TEX STEX STEEL	N/A		
5.4.1.9	Insulating surfaces	Mr. Mr. M. 2	N/A		
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	WATER WATER WATER WAS	N/A		
5.4.1.10.2	Vicat test	THE THE STEP STEP	N/A		
5.4.1.10.3	Ball pressure test	mer mer mer m	N/A		
5.4.2	Clearances	THE THE LIFE LITER	N/A		
5.4.2.1	General requirements	and the suit	N/A		
MULTE	Clearances in circuits connected to AC Mains, Alternative method	AND TEX WITE MATER ON	N/A		
5.4.2.2	Procedure 1 for determining clearance	at at all a	N/A		



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Clause	Requirement – Test	Result – Remark	Verdict	
20, 3	Tomporoni ovonjeliogo	The Automotive of the State of	11, 12,	
F 4 0 0	Temporary overvoltage	the set of		
5.4.2.3	Procedure 2 for determining clearance	were mer an	N/A	
5.4.2.3.2.2	a.c. mains transient voltage	the set of	<u> </u>	
5.4.2.3.2.3	d.c. mains transient voltage	wry, were mer my	_	
5.4.2.3.2.4	External circuit transient voltage	at left left light	_	
5.4.2.3.2.5	Transient voltage determined by measurement	y, mer, mer, m	4) -	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	t increst writest writest of	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	stiek stiek miteksyni	N/A	
5.4.2.6	Clearance measurement	The The The	N/A	
5.4.3	Creepage distances	LIER OLIER WHILE WHILE	N/A	
5.4.3.1	General	the state of	N/A	
5.4.3.3	Material group	EL MITE MALTE WALTE	an —	
5.4.3.4	Creepage distances measurement	at at at	N/A	
5.4.4	Solid insulation	WILL WULL MUT M	N/A	
5.4.4.1	General requirements	A A A A	N/A	
5.4.4.2	Minimum distance through insulation	The sure was	N/A	
5.4.4.3	Insulating compound forming solid insulation	The Little	N/A	
5.4.4.4	Solid insulation in semiconductor devices	in me m	N/A	
5.4.4.5	Insulating compound forming cemented joints	of the text state	N/A	
5.4.4.6	Thin sheet material	mr mr m	N/A	
5.4.4.6.1	General requirements	THE THE STEEL OF	N/A	
5.4.4.6.2	Separable thin sheet material	me in in	N/A	
The Mulie	Number of layers (pcs)	TEK LITER NITER MITE	N/A	
5.4.4.6.3	Non-separable thin sheet material	Le April 10 April 10	N/A	
White .	Number of layers (pcs)	IEF SITES WITE WALTER	N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	- Tet set stet .	N/A	
5.4.4.6.5	Mandrel test	Mr. Mr. M. 21	N/A	
5.4.4.7	Solid insulation in wound components	THE STEE STEE STEE	N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	ar ar ar	N/A	
t Tex	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	The the the	N/A	
5.4.5	Antenna terminal insulation	E WALLE WALL MALL	N/A	
5.4.5.1	General	a at at	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.4.5.2	Voltage surge test	And And And	N/A
5.4.5.3	Insulation resistance (MΩ)	CLIEB MLTE MILIE	N/A
at s	Electric strength test	The state of	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	NLIE WHILE WHILE A	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TEK MITTER MUTTER MU	N/A
5.4.8	Humidity conditioning	t TEN TIEN STE	N/A
LITER N	Relative humidity (%), temperature (°C), duration (h)	on the text	
5.4.9	Electric strength test	white mer mer.	N/A
5.4.9.1	Test procedure for type test of solid insulation	at let let	N/A
5.4.9.2	Test procedure for routine test	is me me m	N/A
5.4.10	Safeguards against transient voltages from external circuits	EX MITEL MATER WAL	N/A
5.4.10.1	Parts and circuits separated from external circuits	the state of the	N/A
5.4.10.2	Test methods	MULL MULL MULL	N/A
5.4.10.2.1	General	at the	N/A
5.4.10.2.2	Impulse test	1 1111	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	MULL MULL MULL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	WITER WITER WHITER	N/A
5.4.11.2	Requirements	a state	N/A
	SPDs bridge separation between external circuit and earth	NITE WALTE WALL W	N/A
	Rated operating voltage U <sub>op</sub> (V)	it with white whi	_ nr _
(EX	Nominal voltage U <sub>peak</sub> (V)	1 1 1 N	<u> </u>
21/2 21	Max increase due to variation ΔU <sub>sp</sub>	WILL WALL MALL	ing -
JEK S	Max increase due to ageing ΔU <sub>sa</sub>	* at at	All -
5.4.11.3	Test method and compliance	MUTTE MUTTER MUTE	N/A
5.4.12	Insulating liquid	at the late	N/A
5.4.12.1	General requirements	rie Muri Muri M	N/A
5.4.12.2	Electric strength of an insulating liquid	at at all a	N/A
5.4.12.3	Compatibility of an insulating liquid	Aug Aug Aug	N/A
5.4.12.4	Container for insulating liquid	at at all	N/A



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Clause	Requirement – Test	the Miles Miles	Result – Remark	Verdict

5.5	Components as safeguards	24 24	N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	TEX STEX SITES OUTE	N/A
5.5.2.1	General requirement	The Man Man And And And And And And And And And An	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEE WALTER WALTER WALTER	N/A
5.5.3	Transformers	t get get steet o	N/A
5.5.4	Optocouplers	Mr. Mr. M.	N/A
5.5.5	Relays	TER STER STER WIT	N/A
5.5.6	Resistors	Mr. Mr. Mr. Mr.	N/A
5.5.7	SPDs	THE LIFE WIFE WIFE	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	et set set with	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	The the the	N/A
1/2 1	RCD rated residual operating current (mA)	Write Mur. Mur. Mur.	_
5.6	Protective conductor	A TEL STE	N/A
5.6.2	Requirement for protective conductors	a funt and	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	and the the	N/A
5.6.3	Requirement for protective earthing conductors	of the tree street of	N/A
	Protective earthing conductor size (mm²)	The Man In a	_
White W	Protective earthing conductor serving as a reinforced safeguard	WHITE WHITE WHITE WHI	N/A
LIE WAL	Protective earthing conductor serving as a double safeguard	ALIER WHITER WHITER	N/A
5.6.4	Requirements for protective bonding conductors	a st set set	N/A
5.6.4.1	Protective bonding conductors	LE WILL MIT MUT A	N/A
CIER	Protective bonding conductor size (mm²)	L at at the	<u> </u>
5.6.4.2	Protective current rating (A)	mery mer my	N/A
5.6.5	Terminals for protective conductors	Let Let Let Let	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	unt un un un	N/A
* 18*	Terminal size for connecting protective bonding conductors (mm)	the men and and	N/A
5.6.5.2	Corrosion	TEX INLIER WALTE WALTE W	N/A
5.6.6	Resistance of the protective bonding system	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.6.6.1	Requirements	With with with whi	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
- an-		Ex Tip May My M	1 111	
5.6.6.2	Test Method		N/A	
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	antil whit whi whi	N/A	
5.6.7	Reliable connection of a protective earthing conductor	Tet street suitet smitel	N/A	
5.6.8	Functional earthing	16. 19. 14. 1	N/A	
White	Conductor size (mm²)	JEK STEK WITER WALTER	N/A	
- Alt	Class II with functional earthing marking	n, n, +	N/A	
MULL	Appliance inlet cl &cr (mm)	ALTER MITE MAIL WA	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	THE WALL WALL WALL	N/A	
5.7.2.1	Measurement of touch current	at at at let	N/A	
5.7.2.2	Measurement of voltage	LIFE WALL WALL WALL	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	EX SUFEX MUTEX SMUTEX SW	N/A	
5.7.4	Unearthed accessible parts	70 7	N/A	
5.7.5	Earthed accessible conductive parts	CHIEF WITE WALL WAL	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	at Nitet Mile	N/A	
st si	Protective conductor current (mA)	7 7 7	N/A	
in which	Instructional Safeguard	TE SITE MIN WALLE	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	t fet stat sidet so	N/A	
5.7.7.1	Touch current from coaxial cables	Mr. Mr. Mr.	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	Whitek whitek whitek white	N/A	
5.7.8	Summation of touch currents from external circuits	LIER WITER WHITER WHITER	N/A	
EK WALTER	a) Equipment connected to earthed external circuits, current (mA)	EX STEX OUTEX SPLINES	N/A	
MITER	b) Equipment connected to unearthed external circuits, current (mA)	- 1st stat stat of	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
Netter in	Mains terminal ES	No battery used	N/A	
	Air gap (mm)	Mr. Mr. M. M.	N/A	

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	Et TEX STEX STEX INST	Р
6.2.2	Power source circuit classifications	All internal and output circuits are considered to be PS1 circuits.	P



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Clause	Requirement – Test	Result – Remark	Verdict
Me		THE WILL MALL MALL MAN	71/2
6.2.3	Classification of potential ignition sources	See the following details.	N/A
6.2.3.1	Arcing PIS	All internal circuits are not considered as arcing PIS.	Me
	TEK TEK NIEK NIEK WHITEK WHITEK	They are supplied by external power supply whose open voltage is less than 50V.	N/A
6.2.3.2	Resistive PIS	All internal circuits of PS1 circuits	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	Р
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)	MITEL W
y JEH	Combustible materials outside fire enclosure	Min. HB	P.
6.4	Safeguards against fire under single fault condition	tions	Р
6.4.1	Safeguard method	Method by control of fire spread applied	F PE
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	at all the milet	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	The state of	N/A
6.4.3.1	Supplementary safeguards	in mer mer mer a	N/A
6.4.3.2	Single Fault Conditions	of the the street out	N/A
7	Special conditions for temperature limited by fuse	Mur. Mr. Mr. Mr.	N/A
6.4.4	Control of fire spread in PS1 circuits	All internal circuits of PS1 circuits	un P
6.4.5	Control of fire spread in PS2 circuits	et et let let	N/A
6.4.5.2	Supplementary safeguards	VILL AND AND AND	N/A
6.4.6	Control of fire spread in PS3 circuits	at the the the	N/A
6.4.7	Separation of combustible materials from a PIS	and my my	N/A
6.4.7.2	Separation by distance	- TEX STEX STEEL SOLI	N/A
6.4.7.3	Separation by a fire barrier	Mr. Mr. Mr. Mr.	N/A
6.4.8	Fire enclosures and fire barriers	Only PS1 circuit , no fire enclosures or barriers required	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	at the the state	N/A
6.4.8.2.1	Requirements for a fire barrier	in my my	N/A
6.4.8.2.2	Requirements for a fire enclosure	Et TEX STEX STEX IN	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	The second second	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
ans.	an an a state of	TER MILL WALL SHIP	aper apr	
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A	
6.4.8.3.2	Fire barrier dimensions	No fire barrier used.	N/A	
6.4.8.3.3	Top openings and properties	No top opening	N/A	
in all	Openings dimensions (mm)	WITE WILL MANY MAN	N/A	
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A	
n.	Openings dimensions (mm)	TE WALL MALL WALL	N/A	
WALTER	Flammability tests for the bottom of a fire enclosure	t night unifer waiter	N/A	
	Instructional Safeguard	W St St	N/A	
6.4.8.3.5	Side openings and properties	No side openings	N/A	
LEK JE	Openings dimensions (mm)	a state	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	LITE MILLE MILL WILL	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	EE WHITE WHITE WHITE	N/A	
6.4.9	Flammability of insulating liquid	TEX STEX STER	N/A	
6.5	Internal and external wiring	Mr. M.	P	
6.5.1	General requirements	AL CALLERY	JIL P.	
6.5.2	Requirements for interconnection to building wiring	No such wire used	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	P.	
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р	
7.2	Reduction of exposure to hazardous substance	es and the the	N/A	
7.3	Ozone exposure	et et set s	N/A	
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A	
Et JULIE	Personal safeguards and instructions	Et TEX JEX JE		
7.5	Use of instructional safeguards and instruction	is who will	N/A	
AINLIER	Instructional safeguard (ISO 7010)	- TEK LIEK SLIER	.n <sup>tj</sup> _	
7.6	Batteries and their protection circuits	Mr. Mr. Mr.	P	
8	MECHANICALLY-CAUSED INJURY	10 10 10 s	Р	
8.2	Mechanical energy source classifications	LET THE THE J	P	
8.3	Safeguards against mechanical energy sources	Viz. Mr. Mice All	Р	
8.4	Safeguards against parts with sharp edges and		P P	
10, .	3	a the the	20, 1,	



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20	EN IEC 62368-	to the the	, a,
Clause	Requirement – Test	Result – Remark	Verdict
7/1/2 1	W W State State State State	EL WILL SULL SULL SUL	200
INLIEK NA	Instructional Safeguard:	MS1: Edges and corners of enclosure	L PEN
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts	WILL MULL MULL MULL	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
- WALTEK	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
,+	Moving MS3 parts only accessible to skilled person	Mr. An An	N/A
8.5.2	Instructional safeguard	street outer south mouth	N/A
8.5.4	Special categories of equipment containing moving parts	Tek yek tiek sitek	N/A
8.5.4.1	General	in the sure	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	EX CIEX OLIER OLIER ON	N/A
8.5.4.2.1	Protection of persons in the work cell	An An An	N/A
8.5.4.2.2	Access protection override	ALTER MITE WALTE WALTE	N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	The Marin Marin	N/A
8.5.4.2.3	Emergency stop system	4 11	N/A
t let	Maximum stopping distance from the point of activation (m)	the mit was and a	N/A
24 2	Space between end point and nearest fixed mechanical part (mm):	MILE MILE MILE MINES MINES	N/A
8.5.4.2.4	Endurance requirements	LIER NITER WITE WITE	N/A
LIEY WITE	Mechanical system subjected to 100 000 cycles of operation	TEX TEX STEX SUTEX	N/A
	- Mechanical function check and visual inspection	VE AVE AVE AVE	N/A
E WILLE	- Cable assembly	EK LIEK NITER WLITER OF	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	the text of the	N/A
8.5.4.3.1	Equipment safeguards	mer me me m	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	TEX LIEX WITE MITE	N/A
8.5.4.3.3	Disconnection from the supply	m. m. m. m.	N/A
8.5.4.3.4	Cut type and test force (N):	TEX SITER OUTER MITTER	N/A
8.5.4.3.5	Compliance	7h, 7h, 7	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
All .	Explosion test	a st st s	N/A
8.5.5.3	Glass particles dimensions (mm)	ALTER MIT MALL WALL	N/A



arc.	EN IEC 62368-	176th 176th 217th 1817	1/2 (1)
01			V/ - E 4
Clause	Requirement – Test	Result – Remark	Verdict
8.6	Stability of equipment	The Mar of	N/A
8.6.1	General	MS1: Mass of the unit	N/A
t	Instructional safeguard:	20, 20, 20,	N/A
8.6.2	Static stability	NITER WILLER WALTER WAL	N/A
8.6.2.2	Static stability test:	s at at a	N/A
8.6.2.3	Downward force test	HE WILL MILL MUT.	N/A
8.6.3	Relocation stability	t let tet stet	N/A
20,	Wheels diameter (mm)	AND AND AND	z <sub>n.</sub>
INCTES OF	Tilt test	TEX STEX STEEL OF	N/A
8.6.4	Glass slide test	the the the	N/A
8.6.5	Horizontal force test	TEX STEE MILE WAL	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	L A A	N/A
2015 1	Test 1, additional downwards force (N):	WILL MULL MULL	N/A
	Test 2, number of attachment points and test force (N)	At The Market Mr.	N/A
IEK MIT	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength	To My My My	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	International Contractions	N/A
ال مالمالي	Number of handles	LIER OLIER WILLER	NUT -
<i>d</i>	Force applied (N)	In In A	et le
8.9	Wheels or casters attachment requirements	ALTER MITER WALTER WAL	N/A
902	- Dull toot	No such parts	NI/A

8.6.2.3	Downward force test	24, 25, 2	IN/A
8.6.3	Relocation stability	t let let let let	N/A
2),	Wheels diameter (mm):	Mer Mer Me M	_
INLIES OF	Tilt test	THE STEE STEEL WITE	N/A
8.6.4	Glass slide test	m m m	N/A
8.6.5	Horizontal force test:	THE STEE WITE SOUTH	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
11/2 1	Test 1, additional downwards force (N)	WILL MILL MULL MULL	N/A
NITEK WY	Test 2, number of attachment points and test force (N)	ALL MAITER MAITER	N/A
SEX SINLIF	Test 3 Nominal diameter (mm) and applied torque (Nm)	The State of the States	N/A
8.8	Handles strength	in the the the	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	m m m	N/A
الك يتيان	Number of handles:	LIER MITER MITER MALIE	_
jet i	Force applied (N):	My An A CA	4
8.9	Wheels or casters attachment requirements	OLITER WALTER WALTER WALTER	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	THE MALTER MALTER WALL ON	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	The second second	N/A
8.10.3	Cart, stand or carrier loading test	alter white white white	N/A
all d	Loading force applied (N):	So the second	N/A
8.10.4	Cart, stand or carrier impact test	LIER MILL MULL MULL A	N/A
8.10.5	Mechanical stability	a state of	N/A
20,	Force applied (N)	white mer me m	411
8.10.6	Thermoplastic temperature stability	at at at a	N/A



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

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	The state of	N/A
in the	Instructional Safeguard	RUTER WILL WALL WALL	N/A
8.11.3	Mechanical strength test	e at at at	N/A
8.11.3.1	Downward force test, force (N) applied:	TE WALL WALL WALL ON	N/A
8.11.3.2	Lateral push force test	L St SET SET S	N/A
8.11.3.3	Integrity of slide rail end stops	MULL ME ME ME	N/A
8.11.4	Compliance	at let let let	N/A
8.12	Telescoping or rod antennas	Merc Aut Aug Aug	N/A
CIEN CUI	Button/ball diameter (mm):	No such parts	_

9	THERMAL BURN INJURY		P.C
9.2	Thermal energy source classifications  Touch temperature limits		Р
9.3			Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	h b
9.4	Safeguards against thermal energy sources	Safeguards against thermal energy sources	
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	PIE
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitte	ers	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	The state of	N/A
9.6.3	Test method and compliance		N/A

10	0 RADIATION		June B Jun
10.2	Radiation energy source classification	Mr. Mr. T.	P
10.2.1	General classification	See below	Par Park
* . E	Lasers		_
JUN LITER	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	_



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-20.	EN IEC 62368-1		2, 2,	
Clause	Requirement – Test	Result – Remark	Verdict	
- m	Image projectors:	the contract of the sale	70,	
102.61		THE THE THE N	4	
20, 20	X-Ray	mer, mer, mer, m.		
15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Personal music player	Lit it ist is		
10.3	Safeguards against laser radiation	MILL MULTURE	N/A	
ier writer	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A	
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	P.E.	
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	PL	
	Instructional safeguard provided for accessible radiation level needs to exceed	and my and my	N/A	
2/1/2	Risk group marking and location:	LIE WALL WALL WALL	N/A	
The Cart	Information for safe operation and installation	a st set set	N/A	
10.4.2	Requirements for enclosures	the wife mer were of	N/A	
LITER .	UV radiation exposure	et set set set	N/A	
10.4.3	Instructional safeguard	The Auto The Auto	N/A	
10.5	Safeguards against X-radiation	it ite aire	N/A	
10.5.1	Requirements	No X-radiation	N/A	
IER NALTE	Instructional safeguard for skilled persons	The The Link of the	_	
10.5.3	Maximum radiation (pA/kg)	Mr. M. M.	_	
10.6	Safeguards against acoustic energy sources	EK STER STER SUITE SU	N/A	
10.6.1	General	The	N/A	
10.6.2	Classification	alife mile antic mil	N/A	
it i	Acoustic output L <sub>Aeq,T</sub> , dB(A):	Silv A St. St.	N/A	
in Mr.	Unweighted RMS output voltage (mV):	RETER WITE WALL WALL	N/A	
EX TEX	Digital output signal (dBFS)	and the second	N/A	
10.6.3	Requirements for dose-based systems	THE MILL WALL THE A	N/A	
10.6.3.1	General requirements	at the set of	N/A	
10.6.3.2	Dose-based warning and automatic decrease	MULL MULL MULL AND	N/A	
10.6.3.3	Exposure-based warning and requirements	at at the the	N/A	
h 24.	30 s integrated exposure level (MEL30):	nutt, aut, aut, au	N/A	
TEX PITE	Warning for MEL ≥ 100 dB(A):	est lest lest liter	N/A	
10.6.4	Measurement methods	in my my m	N/A	
10.6.5	Protection of persons	et tet tet tet i	N/A	
4.	Instructional safeguards	me me m	N/A	
10.6.6	Requirements for listening devices (headphones,	LET LET LIET LI	N/A	



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Me		THE WITH WITH MY MY	an an	
24	earphones, etc.)	30 3	+ +	
10.6.6.1	Corded listening devices with analogue input	A LIER NITER WILLIAM WILL	N/A	
at a	Listening device input voltage (mV)	211 21 X	N/A	
10.6.6.2	Corded listening devices with digital input	LIER RITER WITE WHITE	N/A	
et et	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	11 2 x 2 x	N/A	
10.6.6.3	Cordless listening devices	WILL WILL MILL WHILL WE	N/A	
- t	Max. acoustic output L <sub>Aeq.T</sub> , dB(A):	1	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING DITION TESTS	PA
B.1	General	My Mr. M. M.	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	VI P
B.2	Normal operating conditions	by my my	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
WALTER.	Audio Amplifiers and equipment with audio amplifiers	(See appended table B.2.5)	Pic
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	The life	of P
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
20,	Instructional safeguard	The Mr. M. M.	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	No such selector	N/A
B.3.6	Reverse battery polarity	No such output terminals	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	F P
B.4	Simulated single fault conditions	Mur Mur Mur and	Р
B.4.1	General	TEX LIEX NITER MITE	and P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	LIFE OF
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р



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Clause	Requirement – Test	Result – Remark	Verdict
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	TER P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	EK 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	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	I'm with white white w	N/A
C.2	UV light conditioning test	and the second	N/A
C.2.1	Test apparatus:	the wife with my	N/A
C.2.2	Mounting of test samples	L A At A	N/A
C.2.3	Carbon-arc light-exposure test	WILL MULL MALL MULL	N/A
C.2.4	Xenon-arc light-exposure test	at the test test	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	at let let let	N/A
D.2	Antenna interface test generator	in min my my m	N/A
D.3	Electronic pulse generator	t get get get at	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio signals		JUÝP.
	Maximum non-clipped output power (W):	(See appended table B.2.5)	_
IL WILL	Rated load impedance (Ω)	(See appended table 4.1.2)	_
L st	Open-circuit output voltage (V)	(See appended table B.2.5)	_
MULIE	Instructional safeguard	Provided in the manual	_
E.2	Audio amplifier normal operating conditions	7/12 7/1 2B	⊢ P∂
112 21	Audio signal source type:	(See appended table B.2.5)	



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01	EN IEC 62368-		11/ 11/4
Clause	Requirement – Test	Result – Remark	Verdict
- 24-	Audio output power (W):	(See appended table B.2.5)	_
ancie a	Audio output voltage (V):	(See appended table B.2.5)	_
at a	Rated load impedance (Ω):	(See appended table 4.1.2)	_
74 E	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	olly P√
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	P.
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	EK P
F.1	General	Apr. Apr. Apr.	Р
inerie un	Language	English	_
F.2	Letter symbols and graphical symbols	M M M	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3	Equipment markings	at the life	P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	P
F.3.3	Equipment rating markings	Not direct connection to the mains, it need not be marked with any electrical rating	N/A
F.3.3.1	Equipment with direct connection to mains	a at at at	N/A
F.3.3.2	Equipment without direct connection to mains	its with my my me	N/A
F.3.3.3	Nature of the supply voltage:	- It let let is	N/A
F.3.3.4	Rated voltage:	mer mer mer me	N/A
F.3.3.5	Rated frequency:	at all all all	N/A
F.3.3.6	Rated current or rated power:	Mer Mer Mer M.	N/A
F.3.3.7	Equipment with multiple supply connections	LEX TEX TEX STEE	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	et tet liet milet mi	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	me m the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Olause	Trequirement – Test	Tresuit – Tremark	Verdict
F.3.5.2	Switch position identification marking	Mr. Mr. Mr. Mr.	N/A
F.3.5.3	Replacement fuse identification and rating markings	White white white whi	N/A
LITE MALT	Instructional safeguards for neutral fuse	TEX LIER NIER WITE	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	24. 14. 14.	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	TEX LIEN OLIEN WITE	N/A
F.3.6.1.1	Protective earthing conductor terminal:	m, m, m, m	N/A
F.3.6.1.2	Protective bonding conductor terminals:	TER STER WITER WITER	N/A
F.3.6.2	Equipment class marking:	- M. 20.	N/A
F.3.6.3	Functional earthing terminal marking:	EX NITER WITE WITE W	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	e natifie
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.	NICE P
F.3.10  F.3.10  F.3.10  F.3.10  F. Marie V. Mari	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.	PURITER OF THE
F.4	Instructions	+ get get get g	P
20, 7,	a) Information prior to installation and initial use	See user manual	Р
INLIFER WAL	b) Equipment for use in locations where children not likely to be present	MALIER MALIER MALIER WALTER	N/A
TEX TEX	c) Instructions for installation and interconnection	t at at att	N/A
F 614	d) Equipment intended for use only in restricted access area	ite with must must a	N/A
AUT.	e) Equipment intended to be fastened in place	it nite with white wh	N/A
10	f) Instructions for audio equipment terminals	The second second	N/A
	g) Protective earthing used as a safeguard	THE WIFE WILL WALL	N/A



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01	EN IEC 62368		1,7 ,7
Clause	Requirement – Test	Result – Remark	Verdict
WITER OF	h) Protective conductor current exceeding ES2 limits	t tet tet tet	N/A
10, 1	i) Graphic symbols used on equipment	me me m	N/A
ALTER WAL	j) Permanently connected equipment not provided with all-pole mains switch	WILLER WILLIER WALLES ON	N/A
IEK WALTE	k) Replaceable components or modules providing safeguard function	JEK MITEK WALTER WALT	N/A
- TEK	Equipment containing insulating liquid	e at at at	N/A
Mr.	m) Installation instructions for outdoor equipment	e while while while	N/A
F.5	Instructional safeguards	at at at	N/A
G	COMPONENTS		- 01 P
G.1	Switches	at the let of	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et get get ge	N/A
G.1.3	Test method and compliance	The the M	N/A
G.2	Relays	t let let lifet	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	Alt Contract of	N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance	Ura Mura Mar Mura	N/A
G.3	Protective devices	Et TEX TEX STER	N/A
G.3.1	Thermal cut-offs	No such component	N/A
Merie M	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	WALTER WALTER WALTER	N/A
LIFE WAL	Thermal cut-outs tested as part of the equipment as indicated in c)	STEET WITE WATER WA	N/A
G.3.1.2	Test method and compliance	a de de	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	et wifet whitet	N/A
LEX.	b) Thermal links tested as part of the equipment	71 7 24	N/A
G.3.2.2	Test method and compliance	WITE WILL MALL 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	set night might miles	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	the set set	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Nequilement – rest	rtesuit – rtemark	verdict
G.3.5.2	Single faults conditions	The All All	N/A
G.4	Connectors	ALTER WILLIAMS	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	NITER WALL WALL ON	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	fet siret milet mil	N/A
G.5	Wound components	. W. W.	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	74 24	N/A
G.5.2	Endurance test	WITE WILL M	N/A
G.5.2.1	General test requirements	to the state of	N/A
G.5.2.2	Heat run test	Will Mail Mail May	N/A
EX TEX	Test time (days per cycle)	a at at a	ļ _
24	Test temperature (°C)	MULL MULL MULL	24
G.5.2.3	Wound components supplied from the mains	et set set	N/A
G.5.2.4	No insulation breakdown	Wer Aug Aug.	N/A
G.5.3	Transformers	at the	N/A
G.5.3.1	Compliance method:	2 34 24 24	N/A
LEW WILLE	Position:	The I'm all the mile	N/A
L A	Method of protection	Mr. M. M.	N/A
G.5.3.2	Insulation	A LIET NITE WITE	N/A
J.	Protection from displacement of windings:	711 111 111	_
G.5.3.3	Transformer overload tests	LIFE OLIFE MILE	N/A
G.5.3.3.1	Test conditions	24	N/A
G.5.3.3.2	Winding temperatures	ALTER INLIER WALTER WA	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	TER MALL MALL MALL	N/A
G.5.3.4.1	General	A At At	N/A
1/12 1	FIW wire nominal diameter	MULL MULL MULL	211.
G.5.3.4.2	Transformers with basic insulation only	et et set	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	mer mer me m	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	THE MULTE MULTE WAS	N/A
G.5.3.4.5	Thermal cycling test and compliance	EX NITER WITE WAITE	N/A
G.5.3.4.6	Partial discharge test	711 711 7	N/A
G.5.3.4.7	Routine test	THE STEE BLIEF	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	ALTER WITE WALTER	N/A
G.5.4.2	Motor overload test conditions	701 X	N/A
G.5.4.3	Running overload test	WILL MILL MULL M	N/A
G.5.4.4.2	Locked-rotor overload test	at the set of	/ N/A
2/1	Test duration (days):	The WALL MULT WALL	- III
G.5.4.5	Running overload test for DC motors	L St St SEX	N/A
G.5.4.5.2	Tested in the unit	White Way Man	N/A
G.5.4.5.3	Alternative method	et et et	N/A
G.5.4.6	Locked-rotor overload test for DC motors	With Mr. Mr. A	N/A
G.5.4.6.2	Tested in the unit	LEX LEX LIET N	N/A
4	Maximum Temperature	in me me in	N/A
G.5.4.6.3	Alternative method	Et JET JET JET	N/A
G.5.4.7	Motors with capacitors	AND THE AND	N/A
G.5.4.8	Three-phase motors	TEN LITER MITTER	N/A
G.5.4.9	Series motors	111 211	N/A
WILL MUS	Operating voltage	Let Control	- L
G.6	Wire Insulation		N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	The second second	N/A
G.7	Mains supply cords	EL MULLINGLI MULL	N/A
G.7.1	General requirements	No such component	N/A
in in	Type	until water water	n
G.7.2	Cross sectional area (mm² or AWG)	at at let	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	NO WILL WE WAY	N/A
G.7.3.2	Cord strain relief	LER WILL MULL MULL	N/A
G.7.3.2.1	Requirements	the state	N/A
21/2 21	Strain relief test force (N)	WALTE WALL WALL	N/A
G.7.3.2.2	Strain relief mechanism failure	et et et	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	MULL MULL MULL M	N/A
G.7.3.2.4	Strain relief and cord anchorage material	at all the	N/A
G.7.4	Cord Entry	in mer mer me	N/A
G.7.5	Non-detachable cord bend protection	et let let let	N/A
G.7.5.1	Requirements	Mr. Mr. M.	N/A
G.7.5.2	Test method and compliance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
7/1/2	Overall diameter or minor overall dimension, D	They have my	- 1/1, - 1/2,
	(mm)	TER STER STER	WITE .
	Radius of curvature after test (mm):	me me m	_
G.7.6	Supply wiring space	TEK LIFE SLIFE ON	N/A
G.7.6.1	General requirements	to my my	N/A
G.7.6.2	Stranded wire	TEK SLIEK WITER WALT	N/A
G.7.6.2.1	Requirements	24 25	N/A
G.7.6.2.2	Test with 8 mm strand	STEE WILL MILL	N/A
G.8	Varistors	The state of	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General	LIFE WALL WALL WAS	N/A
G.8.2.2	Varistor overload test	e state	N/A
G.8.2.3	Temporary overvoltage test	While Must Must	N/A
G.9	Integrated circuit (IC) current limiters	- of set set	N/A
G.9.1	Requirements	No such component	N/A
NITER WIT	IC limiter output current (max. 5A)	at the	uter —
	Manufacturers' defined drift:	1 14 14	_
G.9.2	Test Program	The The Little City	N/A
G.9.3	Compliance	111 211 211	N/A
G.10	Resistors	Et TER STEE WITE	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	alife Mile Willer	N/A
G.10.3	Resistor test	in the	N/A
G.10.4	Voltage surge test	LIER MITE WALTE WAS	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	LET WILL MULL MILL	N/A
G.11	Capacitors and RC units	. * * * *	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	at at at	N/A
G.11.3	Rules for selecting capacitors	MULL MULL MULL M	N/A
G.12	Optocouplers	at let let i	N/A
t Tex	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
m	Type test voltage V <sub>ini,a</sub> :	WHITE MILL MILL	24c -
All The State of t	Routine test voltage, V <sub>ini, b</sub> :	1 1 1	26 <u> </u>



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Clause	Requirement – Test	Result – Remark	Verdict

Gladoo	all the till	Et JEET VEGE VEGE VE	The same
G.13	Printed boards	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	P
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	W P
G.13.2	Uncoated printed boards	UTIL MUTIL MUTICALITY	N/A
G.13.3	Coated printed boards	at all tell tell	N/A
G.13.4	Insulation between conductors on the same inner surface	Mary Mary Mary	N/A
G.13.5	Insulation between conductors on different surfaces	MULTE MILL MILL AND	N/A
ner un	Distance through insulation	ALTER MILE WALLE	N/A
et e	Number of insulation layers (pcs)	an an an although	_
G.13.6	Tests on coated printed boards	LIFE WILLE WILL MILL	N/A
G.13.6.1	Sample preparation and preliminary inspection	a state of the	N/A
G.13.6.2	Test method and compliance	er with mut min m	N/A
G.14	Coating on components terminals	at at alt of	N/A
G.14.1	Requirements	anti mit mit mit	N/A
G.15	Pressurized liquid filled components	THE LIFE	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	The Little	N/A
G.15.2.1	Hydrostatic pressure test	ry mer mer my	N/A
G.15.2.2	Creep resistance test	of the title alter out	N/A
G.15.2.3	Tubing and fittings compatibility test	Mr. Mr. Mr. M.	N/A
G.15.2.4	Vibration test	THE LIFE NITE WITE	N/A
G.15.2.5	Thermal cycling test	241 20 20 20 20 20 20 20 20 20 20 20 20 20	N/A
G.15.2.6	Force test	THE LITER RULE WITE	N/A
G.15.3	Compliance	1 2h 2 3	N/A
G.16	IC including capacitor discharge function (ICX)	TEN STEEL WITE WHITE W	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
Mrs. M	ICX with associated circuitry tested in equipment	CITE INITE WILL WAS	N/A
At C	ICX tested separately	a at at all	N/A
G.16.2	Tests	WILL MULL MULL MULL	N/A
IEK WALTE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	TEX STEEL MITER WHITER	_
MALTER	Mains voltage that impulses to be superimposed on	et itet istet ostet ist	_
TEX	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	The the the Th	_



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	IXesuit – IXemark	Verdict
G.16.3	Capacitor discharge test:	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	The state of	N/A
H.2	Method A	WITE WILL WALL MALL	N/A
H.3	Method B	or at at at	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	Mer Mr. Mr. M.	_
H.3.1.2	Voltage (V):		_
H.3.1.3	Cadence; time (s) and voltage (V):	me me me	_
H.3.1.4	Single fault current (mA)::	L 25 10 10 1	_
H.3.2	Tripping device and monitoring voltage	20 2 2 2 X	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	White white white w	N/A
H.3.2.2	Tripping device	LIEX SLIER WITE NOW	N/A
H.3.2.3	Monitoring voltage (V)	41 41	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	THE THE WITTER	N/A
L A	Winding wire insulation:	24, 24, 24	_
MILL	Solid round winding wire, diameter (mm):	et lifet write write w	N/A
WITEK AN	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	THE THE THE OUT	N/A
J.2/J.3	Tests and Manufacturing	and any any	,
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
MUTIL	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	my my my	N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	Mr. Mr. W. A.	N/A
K.5.1	Under single fault condition	TEX STEE STEE SMITE	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement	IET STIFE WITE WATER W	N/A
K.6.2	Test method and compliance:	, , , , , , , , , , , , , , , , , , ,	N/A
K.7	Interlock circuit isolation		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
an.	M. M. Jeff Market	the street was our on	1111
K.7.1	Separation distance for contact gaps & interlock circuit elements	TEX TEX STEX MUST	N/A
	In circuit connected to mains, separation distance for contact gaps (mm)	THE THE TEXT TEXT	N/A
et el	In circuit isolated from mains, separation distance for contact gaps (mm):	Will mer any	N/A
Mer	Electric strength test before and after the test of K.7.2	THE WALLE WHILE WHILE W	N/A
K.7.2	Overload test, Current (A):	t THE LIFE WITH AND	N/A
K.7.3	Endurance test	All All All All All	N/A
K.7.4	Electric strength test	LIEK ALTER MALTER MALTER	N/A
L	DISCONNECT DEVICES		N/A
L.1 🐠	General requirements	LIER RITE WILL WALL	N/A
L.2	Permanently connected equipment	, , , , , , , , , , , , , , , , , , ,	N/A
L.3	Parts that remain energized	ET INLIER WALTE WALTE WA	N/A
L.4	Single-phase equipment	A A A A	N/A
L.5	Three-phase equipment	WILL MULL MULL MULL	N/A
L.6	Switches as disconnect devices	At JET JET	N/A
L.7	Plugs as disconnect devices	- 2 Aug Aug	N/A
L.8	Multiple power sources	The little	N/A
20	Instructional safeguard	in the the the	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	P
M.1	General requirements		Р
M.2	Safety of batteries and their cells	· TEX STEEL STEEL SOUTH	N/P
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	ne we we the	P
M.3.1	Requirements	its write when were an	Р
M.3.2	Test method	at at set of	P
2011 - 1	Overcharging of a rechargeable battery	(See appended table Annex M)	Р
VE. M	Excessive discharging	(See appended table Annex M)	ω. P
MALT	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
MULTER	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



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01			
Clause	Requirement – Test	Result – Remark	Verdict
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	P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	P
M.4.1	General	in min mer me m	Р
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	PI VINLETER VINLETER VINLETER
M.4.2.1	Requirements	ex intermeter white wh	Р
M.4.2.2	Compliance	(See appended table M.4.2)	⊢ P
M.4.3	Fire enclosure:	Only PS1 circuit , no fire enclosures or barriers required	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	THE WAITE WAITE	Р
M.4.4.2	Preparation and procedure for the drop test		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	brit. Mur. Mr. M.	Р
M.5	Risk of burn due to short-circuit during carryin	9 th let let liter o	P
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	ance mer were me	N/A
М.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	MUTT, MUT, MUT, MILE	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.	NITE PO
M.7.	Risk of explosion from lead acid and NiCd batte	eries	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A	
Z	Calculated hydrogen generation rate	me me me	N/A	
M.7.2	Test method and compliance	TEX TEX STEX WITE	N/A	
at a	Minimum air flow rate, Q (m³/h)	in my my	N/A	
M.7.3	Ventilation tests	TEX SLIER WILLIAM INCLES IN	N/A	
M.7.3.1	General	24, 24	N/A	
M.7.3.2	Ventilation test – alternative 1	t alter miter mile mi	N/A	
A.	Hydrogen gas concentration (%)	The state of	N/A	
M.7.3.3	Ventilation test – alternative 2	WILL MILL MULL MAN	N/A	
dt d	Obtained hydrogen generation rate	and the second	N/A	
M.7.3.4	Ventilation test – alternative 3	LIE WALTE WALL WALL	N/A	
the Clark	Hydrogen gas concentration (%)	s at at at	N/A	
M.7.4	Marking:	anti mi unt un	N/A	
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A	
M.8.1	General		N/A	
M.8.2	Test method	The Marie And	N/A	
M.8.2.1	General	the set	N/A	
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m³/s):	ite white whi whi a	12 - 24	
M.8.2.3	Correction factors	t at let let i	Ser The Second	
M.8.2.4	Calculation of distance d (mm)	They say my my		
M.9	Preventing electrolyte spillage	. Let TEX STEX NITE	N/A	
M.9.1	Protection from electrolyte spillage	we me me	N/A	
M.9.2	Tray for preventing electrolyte spillage	TEX TEX LIER WITE	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	it let let let.	N/A	
20,	Instructional safeguard	me me me	N/A	
N STEE	ELECTROCHEMICAL POTENTIALS	t set set set set	N/A	
20.	Material(s) used	The Me Me And		
0.15	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A	
	Value of X (mm)	me me me	Δ-	
PINNLI	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS+ LIET LIET WIFE	N/A	
P.1	General Company of the Company of th	Only PS1	N/A	
P.2	Safeguards against entry or consequences of e	entry of a foreign object	N/A	
P.2.1	General	700 00 00	N/A	
P.2.2	Safeguards against entry of a foreign object	LIEF STIFF WITE WITE	N/A	



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
an	W W JET STEEL ST	Et with with other of	100 100
EX	Location and Dimensions (mm)	No opening.	de de
P.2.3	Safeguards against the consequences of entry of a foreign object	MULTER WALTE MALL VIN	N/A
P.2.3.1	Safeguard requirements	TEX STEX NUTER MITE	N/A
IEK OLITEK	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	of the text street	N/A
- GER	Transportable equipment with metalized plastic parts	and any and	N/A
P.2.3.2	Consequence of entry test	White white white w	N/A
P.3	Safeguards against spillage of internal liquids	at at all a	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	at at all the	N/A
P.3.3	Spillage safeguards	er, mer, mer, me	N/A
P.3.4	Compliance	et get get get	N/A
P.4	Metallized coatings and adhesives securing pa	rts w	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	Mrs. Mrs. Mrs. M.	N/A
NITE NIL	Conditioning, T <sub>C</sub> (°C):	ALL CONTRACTOR	anti-
	Duration (weeks):		
Q d	CIRCUITS INTENDED FOR INTERCONNECTION		N/A
Q.1	Limited power sources	The same of the sa	N/A
Q.1.1	Requirements	ALTER MITER WALTER	N/A
, et	a) Inherently limited output	20 L 24	N/A
ance an	b) Impedance limited output	WILL MULL MULLE MUST	N/A
18th 5	c) Regulating network limited output	a at at all	N/A
710	d) Overcurrent protective device limited output	ALTER WALT WALL WALL	N/A
EK JEK	e) IC current limiter complying with G.9	at the text	N/A
Q.1.2	Test method and compliance	the write many many	N/A
WALTER	Current rating of overcurrent protective device (A)	- stek screek spriek su	N/A
Q.2	Test for external circuits – paired conductor cable	THE DIET WITH WALL	N/A
it is	Maximum output current (A):		N/A
" Whi	Current limiting method	LIEF MITE WILL WHILE	2 /1/2 -1
R A	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	No such consideration.	N/A
R.2	Test setup		N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- Ch-	Overcurrent protective device for test:	The same of the same	( ) L
₹.3	Test method	THE THE THE ME	N/A
7.0	Cord/cable used for test	They are the the	IN/A
SA OF		THE STATE AND ADDRESS.	NI/A
R.4	Compliance	ur au au	N/A
S S.1	TESTS FOR RESISTANCE TO HEAT AND FIRE	viviar materials of acciomant	N/A N/A
3. I	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		IN/A
MACO	Samples, material	KILLER WHILE WHILE WHI	1/4
All the	Wall thickness (mm)	I st st st	4 .4
ne w	Conditioning (°C)	WITE WITE WILL WILL	100,00
LIEK WAL	Test flame according to IEC 60695-11-5 with conditions as set out	LEE DIEN WIFE WAITER	N/A
y 184	- Material not consumed completely	the state of	N/A
77/2	- Material extinguishes within 30s	Ex WILL MILE MULL AN	N/A
(Et	- No burning of layer or wrapping tissue	L A B C	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
TEX.	Samples, material	At All All	- LIEN
100	Wall thickness (mm):	The sun sun	11/2 _ 1
iek ali	Conditioning (°C)	The Lift	NITER - NI
S.3	Flammability test for the bottom of a fire enclose	sure	N/A
S.3.1	Mounting of samples	t tet tet atter a	N/A
S.3.2	Test method and compliance	Mr. Mr. M.	N/A
Willey W	Mounting of samples	TER STEEL STEEL WITE	inti.
	Wall thickness (mm)	any and any	1
S.4	Flammability classification of materials	LIEF SLIEF WIFE WHITE	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	EX MULTER MULTER ON	N/A
TER.	Samples, material	- at let let it	Et JE
1/1,	Wall thickness (mm)	me me me	7,,-
riter at	Conditioning (°C):	THE THE LIFE SUITE	intité :
Т	MECHANICAL STRENGTH TESTS	me, me me me	Р
T.1 NO.	General	TEX LIEK SLIEK MILES	Pur
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:	EX SLIER INLIER MILIER ON	N/A
T.4	Steady force test, 100 N	20, 20, 20	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	S/P



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20,	EN IEC 62368-	The way was	in 1.
Clause	Requirement – Test	Result – Remark	Verdict
"Alex	M M TEN	EL WILL WALL ONLY IN	100
T.6	Enclosure impact test	(See appended table T.6)	N/A
aler al	Fall test	Writer Write White Mile	N/A
18th J	Swing test	at at at at	N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	TELL P
Т.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	EX STEX SLITER OUTER SIN	N/A
*	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	LIER OLIER MILE MILE	N/A
LIEK WALLE	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General	in with any and an	N/A
WALLER ON	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		N/A
V <sup>L</sup> S <sup>O</sup>	DETERMINATION OF ACCESSIBLE PARTS	the life	N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General	t et et it	N/A
V.1.2	Surfaces and openings tested with jointed test probes	Must Aug My Aug	N/A
V.1.3	Openings tested with straight unjointed test probes	WILL MULL MULL MULL	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	1 A A A	N/A
V.1.5	Slot openings tested with wedge probe	ALTER WALTE WALTE WALL	N/A
V.1.6	Terminals tested with rigid test wire	at at at at	N/A
V.2	Accessible part criterion	The me we were	N/A
X NITE V	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 MAR	Clearance:	LIEF ALTER MITER WALLE	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	40	N/A
Y.3	Resistance to corrosion	Et NITE WALLENALIE WA	N/A
Y.3	Resistance to corrosion	70 20 20	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Y.3.1	Matallia marta of distribution and leaving and mariators	The Auto of the	NI/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TEN TEN TEN	N/A
Y.3.2	Test apparatus	me me m	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	TEK TEK STEEL	N/A
Y.3.4	Test procedure	he m m	N/A
Y.3.5	Compliance	TEH SLIER WITER WIN	N/A
Y.4	Gaskets	411 411	N/A
Y.4.1	General	ALTER WITER WALTE	N/A
Y.4.2	Gasket tests	The state of	N/A
Y.4.3	Tensile strength and elongation tests	White White White	N/A
LEF S	Alternative test methods	t it it	N/A
Y.4.4	Compression test	LIET WILL WALL W	N/A
Y.4.5	Oil resistance	a at at a	/ N/A
Y.4.6	Securing means	in white white whi	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	WILL MULL MULL	N/A
Y.5.2	Protection from moisture	A TEN	N/A
1 20	Relevant tests of IEC 60529 or Y.5.3	2 21 2	N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin	and the contraction	N/A
Y.5.5	Protection from excessive dust	H TEK STEK MITE	N/A
Y.5.5.1	General	24. 24. 24.	N/A
Y.5.5.2	IP5X equipment	LIER SLIER WITE	N/A
Y.5.5.3	IP6X equipment	111, 22, 22	N/A
Y.6	Mechanical strength of enclosures	LIEK WITER WATER	N/A
Y.6.1	General	1 1 4	N/A
Y.6.2	Impact test:	IER NITE MITE WAL	N/A



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

#### ATTACHMENT TO TEST REPORT

### IEC 62368-1

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

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

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

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

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

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

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in the	CENELEC COMMON MODIFICATIONS (EN)	They Multe Muly Aut Au	Р
MUTER OF	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 and those in IEC 62368-1:2018 are prefixed "Z".	nbers in that column, except for 1:2018.	H PARTER
ner white	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 decoded	LIFE WHITE WHITE WA	AL PU
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure  Replace 3.3.19 of IEC 62368-1 with the following definitions:		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
3.3.19.3 III	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 Pa² s. $E = \int_{0}^{T} p(t)^2  \mathrm{d}t$	ONLIE WHILE	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, Eo, typically the 1 kHz threshold of hearing in humans.  Note 1 to entry: SEL is measured as A-weighted levels in dB.	JUNITER WHITER WHITER	N/A
	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.	EX WHITEX WHITEX WHITEX WHITEX WHITEX	EX WALLEY WALLEY
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.	JEK WHITEK WHITEK WHITEK WHITEK	N/A
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	THE OUT OF THE SUNT	N/A

10.6.1.1 Introduction N/A Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.



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-20,	EN IEC 62368-1	is the me also	24, 4,
Clause	Requirement – Test	Result – Remark	Verdict
apr.	NOTE 1 Protection against acquistic approxy sources from	A STEEL WALL SAFE	The The
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	a st at	LET LET
	NOTE 2 It is the intention of the Committee to allow the	OLIER MALTE MALTE	ant, and
	alternative methods for now, but to only use the dose	20, 20, 1	it lit
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	TEX LIER OLIER OF	Liter WALL ON
	possible.	See Alle Mr. Mr. Mr.	
	Listening devices sold separately shall comply	at at alt of	er cier ni
	with the requirements of 10.6.6.	auty with the	20,
	These requirements are valid for music or video	a st st	- 18 18 18 18 18 18 18 18 18 18 18 18 18
	mode only.  The requirements do not apply to:	LIFE MITE MILL	Mur. Mur
	– professional equipment;	21/2 24, 25	4
	3 mr mr mr m	LET TEX TEX	CLIEB MITE
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal	ner mer me 1	n - 2
	electronics stores are considered not to be professional	at at at	TEN TEN
	equipment.	LIER WILL WILL WA	211, 211
	– hearing aid equipment and other devices for	20.	+ 1 + 1
	assistive listening;	EX LIET SLIFE SLIFE	MALL WILL
	- the following type of analogue personal music	The This This	
	players:  • long distance radio receiver (for example, a	. Let tet tet	LIER WITE
	multiband radio receiver or world band radio	White Will Mar	41, 41,
	receiver, an AM radio receiver), and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LET LEX
	cassette player/recorder;	WILL W	Vr. 12 12 1
	NOTE 4 This exemption has been allowed because this		1 1
	technology is falling out of use and it is expected that within a	ar ar ar ar	in white and
	few years it will no longer exist. This exemption will not be extended to other technologies.	, mer mer m	
	The The Way May All All All All All All All All All Al	L st set set	- JE - JE
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while</li> </ul>	WILL WILL WILL	11/2 11/2
	in use.	1 1 x	LET LET
	And the take	LIER SLIER WILL	MULL MULL
	For equipment that is clearly designed or intended	m. m. m.	a de
	primarily for use by children, the limits of the relevant toy standards may apply.	Let tet tet	LIER ULIE NI
	Total to y diamardo may appry.	in me me m	20 20
	The relevant requirements are given in	e of the state of	Et JET J
	EN 71-1:2011, 4.20 and the related tests methods	The Wife Will Mile	an an
10.6.1.2	and measurement distances apply.  Non-ionizing radiation from radio frequencies	7 × ×	N/A
10.0.1.2	in the range 0 to 300 GHz	SLIER WITE SUITE	WILL THE
	The amount of non-ionizing radiation is regulated	24, 24, 25	.4 .4
	by European Council Recommendation	TEX TEX LIER	RITE RITE
	1999/519/EC of 12 July 1999 on the limitation of	Wer Aller Alle A	
	exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	at the letter	TEN TEN
	For intentional radiators, ICNIRP guidelines should	ITE WILL WILL MY	211, 211
	be taken into account for Limiting Exposure to	70.	+ 15 1
	Time-Varying Electric, Magnetic, and	the little street outer	WALL WALL
	Electromagnetic Fields (up to 300 GHz). For hand-	211, 211, 21	
	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	A CH CH	TEN TEN



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

10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1 N	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	Not such equipment	N/A
	For classifying the acoustic output $L_{\text{Aeq},\tau}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	Whitek whitek whitek whi	ite mit
	For music where the average sound pressure (long term $L$ Aeq, $\tau$ ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, $T$ becomes the duration of the song.	TEX WHITEK WHITEK WHITEK	MILITER OF
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{\text{Aeq},7}$ ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	Whitek wh	TE WHITE WALTER WASTER
10.6.2.2  UNLIFE  UNLI	RS1 limits (to be superseded, see 10.6.3.2)  RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.  — The RS1 limits will be updated for all devices as	JUNITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER	



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211.	EN IEC 62368-1	the water water	2/12 2/11
Clause	Requirement – Test	Result – Remark	Verdict
ale.	AN AN THE ST	ALTE MALL MALL	me an
10.6.2.3  SUPER SU	RS2 limits (to be superseded, see 10.6.3.3)  RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	JUNITER WHITER W	N/A  STEEL WALE  W
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Writek Multer Multer	N/A
10.6.3	Classification of devices (new)	at the same	N/A
10.6.3.1	General  Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening	Whitek whitek whitek w	N/A

device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the  $L_{Aeq}$ ,  $\tau$  acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. 10.6.3.3 RS2 limits (new) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player)



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<b>0</b> 1		l	3
Clause	Requirement – Test	Result – Remark	Verdict
WIND ON THE WIND THE	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.	SUNLIER WHITER W	NICE WALTER WALT WALTER WALT WALTER W
10.6.4	Requirements for maximum sound exposure	it, mur aut au	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	Not such equipment	N/A
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.  Protection of persons	A TIET N	N/A
EX WALTE	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	THE WALTE WALTE	t water was
	NOTE 1 Volume control is not considered a safeguard.	WALTER WALTE WALL	mr. mr.
	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional safeguard</b> in accordance with Clause F.5, except that the <b>instructional safeguard</b> shall be placed on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	untitek wattek wattek wate	Whitek Whitek
	The elements of the <b>instructional safeguard</b> shall be as follows:	Whitek multer multer	UNLIE WALTER
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	Mitek Whitek Whitek White	TEX MILES
	wording  – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	MALIER WALLER WHITER	White white
	( 1, 7, 6, 10, 10, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1 1 1	16 16 16 16 16 16 16 16 16 16 16 16 16 1



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
UNLIER WILLER	of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary person</b> and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.  The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.  NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.  NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	JUNITER WHITER W	TEX WALTER WALTER OF THE WALTE	
MALIE	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	MITEL MALTER MALTER	Write Milit	
10.6.5	Requirements for dose-based systems		N/A	
10.6.5.1	General requirements  Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.  The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.  The personal music player shall be supplied with easy to understand explanation to the user of the	Not such equipment	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	
nliek white Lex white	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.	Tex uniter whitek white	LIET WITER O	
10.6.5.2	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	TEX TEX STEEL	N/A	



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- 27	EN IEC 62368-1	re all all all	72.
Clause	Requirement – Test	Result – Remark	Verdict
alle.	M W TEX ST	The water about	we we
	acknowledgement. In case the user does not	200	14 14 Et
	acknowledge, the output level shall automatically decrease to compliance with class RS1.	THE STEE STEE	WILL WILL
	decrease to compliance with class NoT.	We are a	
	The warning shall at least clearly indicate that	a to the state of	CENT SERVE
	listening above 100 % CSD leads to the risk of	LIFET NITE INLIVE WAY	10 10
	hearing damage or loss.	20 20 20 20	
0.6.5.3	Exposure-based requirements	It Let LET JE	N/A
10	With only dose-based requirements, cause and	auti were mure	411. 20.
	effect could be far separated in time, defying the	4	20- 20
	purpose of educating users about safe listening	THE LITTER STATE	with white
	practice. In addition to dose-based requirements,	The The In	
	a PMP shall therefore also put a limit to the short-	at at at	TEX TEX
	term sound level a user can listen at.	WITE WITE WALL MI	in the
	The expecting based limiter (CL) shall	10, 20,	at at
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed	LET JET JET JE	The ST
	100 dB(A) or 150 mV integrated over the past 180	in we we	20 20
	s, based on methodology defined in EN 50332-3.		** ** **
	The EL settling time (time from starting level	ex life wife with	ave ave
	reduction to reaching target output) shall be 10 s	24, 24, 25,	
	or faster.	at at the	THE LITE
	Total of El. 6 mostion eliteria and deliteral and ordered	WILL WILL WALL	20.
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For		* 1
	equipment provided as a package (player with its	LEE STEEL ON	The State of
	listening device), the level integrated over 180 s	- 1 In 20,	
	shall be 100 dB or lower. For equipment provided	4 1	t litt
	with a standardized connector, the unweighted	THE NAME OF THE PARTY	m m
	level integrated over 180 s shall be no more than	70, 2, ,	
	150 mV for an analogue interface and no more	LE THE THE	Tile Will
	than -10 dBFS for a digital interface.	anti with whi	ing in
	NOTE In case the source is known not to be music (or test	1 x	et et
recorder	signal), the EL may be disabled.	THE STATE OF THE	Mr. Mr.
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	211 22	4.
	listening device, and with the volume and sound	A BY THE THE	TO THE WAY
	settings in the listening device (for example, built-	West wife and	21/2 22
	in volume level control, additional sound features like equalization, etc.) set to the combination of		11 11
	positions that maximize the measured acoustic	TEX LIFE OLIVE	inlie when
	output, the input voltage of the listening device	The My My	
	when playing the fixed "programme simulation	A A A	TEX JEE
	noise" as described in EN 50332-1 shall be ≥ 75	SLIE MITE SIRLY WA	1/1/2
	mV.	10. 10.	+ 2+
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	et let let let	11/2 11
-20.	and 27 mV or 100 dB and 150 mV.	y mur mur m	20, 2,
0000	Corded listening devices with digital input	t at at at	N/A
0.6.6.2		The state of the s	- CI
0.6.6.2	With any playing device playing the fixed	are are are	20.
0.6.6.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings	mer me m	it it



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
The same	White the state of	all mile with	The Alle	
unitek uni	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be $\leq 100$ dB with an input signal of - 10 dBFS.	antifek antifek antifek	gunlifest gunlifest.	
10.6.6.3	Cordless listening devices		, ⊢ N/A	
whitek wh	In cordless mode,  — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and  — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and  — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the ∠Aeq, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	MULTER WHITE WHITE	White whitek whi	
10.6.6.4	Measurement method	WILL MILL MILL	N/A	
NITEH AND	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Titt	SLIFEK NITEK NI	
3	Modification to the whole document		N/A	



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<u> </u>			
in m		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

anic.	M	odification	to Clause 1	At-	AT AV		ll. 10. 'U	N/A
	t	Y.4.5	Note					2) , ,
	5 d	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	ALTEK.
	11/2/5	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MUTER
	J.P.			1,000,000	3,000		Note 2	TEX WILL
	4	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and	L 21
	.¥-	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	TEX.
	TZ EN	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MILTER
		Table 13						Allery.
	150	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	2- ZE
	- 1	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	L'EN UNI
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	Write a
	et-	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	124



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EN IEC 62368-1					
Clause	Requirement – Test	Merce Merce Merce	Result – Remark	et d	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

N/A

N/A

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	EN IEC 62368-1	the way are my	
Clause	Requirement – Test	Result – Remark	Verdict
ari	THE THE THE	EN ALTER MALL MALL	The August
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	antifet untifet untifet	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	LIFER WHITER WHITER WE	EX WHITE WHITEK
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	MITER WHITEK WHITEK V	INLIFER WALTER V
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	TEX WHITEX WHITEX WH	TEX ON TEX 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	Whitek Whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.		EK WUIEK WUI
LIEN	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	THE THE TEN	TE NITE

**Modification to G.7.1** 

**Add** the following note:

**Modification to Bibliography** 

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

G.7.1

10



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EN IEC 62368-1					711
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict

	Add the following notes for the standards indicated:	N/A
	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 61558-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61658-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-311. IEC 61643-331 NOTE Harmonized as EN 61643-331.	AUTER WAS
11	ADDITION OF ANNEXES	N/A
-0.	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
A.1.15  A.1.15	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	
4.7.3	United Kingdom  To the end of the subclause the following is added:  The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A



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Lange And	EN IEC 62368-1				
Clause	Requirement – Test	Aller Aller Aller	Result – Remark	et d	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 NINI
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	TER WILL MILE WILLER	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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	EN IEC 62368-1	20, 00	
Clause	Requirement – Test	Result – Remark	Verdict
WITEK W	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE THE LIFE	NITER MITER
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	are, whitek arrites are	TEX WITTER ON
ek walter 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 MULTER WALTER WALTE	Muri Ex Muri
5.5.2.1	Norway	TEX STER STER	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mur	an aret
iver in	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MITTER WALTER WALTE M	er let a
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	A TEX NITER MITER	· WALTER WALTE
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	Whitek Multek Multek	MUTER MILIER
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:	Whitek whitek whitek	White white
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIES WILLES WILLES	Will Mulie
5.6.4.2.1	Ireland and United Kingdom	at at let o	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  — the <b>protective current rating</b> is taken to be 13	at the rest of the	
	A, this being the largest rating of fuse used in the <b>mains</b> plug.	Mur. Mur. Mur.	The Table
5.6.4.2.1	France	TEX STEE OUTE	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  — in certain cases, the <b>protective current rating</b>	while with whilek wh	LIEK WITEK
CEP CIE	of the circuit supplied from the mains is taken as 20 A instead of 16 A.	a st set se	Et JEt N
5.6.5.1	To the second paragraph the following is added:	ite were mer mer	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.	* WHITE WHITE WHITE	WALTER WALTE



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J. Mile	EN IEC 62368-1				
Clause	Requirement – Test	The Mary My Man	Result – Remark	Verdict	

5.6.8	Norway	14, 14,	N/A
JUNITER VI	To the end of the subclause the following is added:	MULTER WALTER WALTER OF	MALTER
EK WITE	Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	stek whitek whitek whi	ek whitek w
5.7.6	Denmark	2/1, 21, 2,	N/A
WHITE W	To the end of the subclause the following is added:  The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Whitek whitek whitek	unite unite
5.7.6.2	Denmark	TEX SITES ONLY	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	AND THE MUTTER MUTTER	White whi
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added:  The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building.  Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	white	TEK DITEK
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	ancies while ancies whi	ex whitex
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	ex whitek whitek whitek	White white
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILER MUTER MUTER MA	TEK UNLTEK
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator,	TEX WHITEX WHITEX WHITEX	WALLY WALL
	see EN 60728-11)"	A- 05 AV	.4"



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ale c	and the the	LIE NITER WITH MITTER	The same
UNLIEK VIN	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.	CLIER WILER WILER WILE	Y WILLEY
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sure while whilet whilet	WALTEK WA
	"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	Et whitet whitet whitet wh	STEE WALTE
	apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	at let let let	· NITEK W
on on tres on tres st on trest	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."	Mile whitek whitek whitek wh	un itek vuntiek
8.5.4.2.3	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	united united	WALTER WA
	required where there is a risk of personal injury.	i an an a	
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:  To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A
G.4.2	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 WHITEX WHITEX	n iek vni
whitek w	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 white wh	yours



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EN IEC 62368-1							
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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Lange And	Mrs. Mrs. Mrs. Mrs. Mrs.	EN IEC 62368-1	EC 62368-1				
Clause	Requirement – Test	Aller Aller Aller	Result – Remark	et d	Verdict		

G.7.1	Ireland	70, 70	N/A
MILIER	To the first paragraph the following is added:	NATER MATER WALTER	MALTER
EL WALTE	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	STEK WALTER WALTER WALTER WAS	ek wh
G.7.2	Ireland and United Kingdom	WILL MULL MUST MUST	N/A
	To the first paragraph the following is added:	L A A A	
une vi Tek ni	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.	inter white white white	ileje Teje
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	is me me m	N/A
10.5.2	Germany The following requirement applies:	No CRT within the equipment.	N/A
	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.	Whitek whitek whitek whitek	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Whitek whitek whitek white	
	The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	



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Lang Maria	My My All	EN IEC 62368-1	ITE WILLER WILLER	Mr. Mr. Mil
Clause	Requirement – Test	Note that the me	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 ₹V4-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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. "AL	The The The	EN IEC 62368-1	ITER MILITER WALTER	Mury M	an.
Clause	Requirement – Test	The Mar My Man	Result – Remark	alt d	Verdict

5.2	TABLE: Classification	on of electrical er	nergy source	es		THE STEP	P	
Supply	Location (e.g.	Test conditions		Parame	ters		ES Class	
Voltage	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Ciass	
5.0VDC	The EUT is	Normal	<60Vdc	A - A+	SS	DC	ES1	
	designed to be supplied by USB type-C port	Abnormal	antife and	The Charles of	10, 1,	70,	20.	
		Single fault – SC/OC	STEE ST	et intek	LIEK- WY	EK WALTER	MALTER.	
4.2VDC	The EUT is	Normal	<60Vdc	T.	SS	DC	ES1	
	designed to be supplied by	Abnormal	TER TITE	WALLE MULL	777.0	21/2 - 21/	. 41	
	Internal Li-ion battery	Single fault – SC/OC	- CIER	LIEK WLIEK	NALTEX.	UNLIEK WINLE	EK WILL	

### 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 TABL	LE: Working vo	oltage measui	rement		N/A
Location	1	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
-un wh	20, 2,	74	ik Jek N	Elle Martin M	The Maria Auto Maria
- JEK JIEK	INLIER MILIE	WILL CHE	20, - 20,	-	et let the little
Supplementary in	formation:				

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics								
Method		: ISO 306 / B50	mr mr -					
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)					
-m - m - m	t let with all the	White - Mrey Wh	7/1 - 7/1					
Supplementary information:								
1. 2	et itel lite wife	WELL MUT, MUE	24, 24, 2					

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N/A	
Allowed impression diameter (mm)					m. A	الل. ا	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Impr diame	ession ter (mm)



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		EN IEC	62368-1		
Clause	Requirement – Test	incir when wh	Resu	It – Remark	Verdict
Sep.	241 . 241 . 22	1 1 A	JET S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in the the
<sub>-</sub> +	THE THE THE ON	TER WILLE MY	24.7		c 14 - 14
Suppleme	entary information:				
et.	CER SER STER STE	WILL WALL	24. 24.		

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)
- nit will wall wall	27/2	4,	- ,	7,5	All I	5665	EK TITE	NATE .

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	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	E <sub>P</sub>	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)	
- INLIE WHILL WHILL WE	- 17/V.	- 4	# 11	TEX . JE	- CLIER OF	AE MILIE	
Supplementary information:							
WILL WILL MAY MAY	24	1 1	et .	CER SER	JUE WIT	I WIN I	

5.4.9 TABLE: Electric st	rength tests	TEN STEN ST	N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	Will My Mr M. M.		LEF LEF
-any any any and	A TEN ITEM NUTER INCT	- write white	Vr. 170, 1
Basic/supplementary:	WALLE WALL WALL THE WALL		CEL STEP N
Tr. M. M.	of the the street wife	Write Mure And	2115
Reinforced:	the me the the	A 15 16	t set sie
- 44	the state of the patient applied to	TI ME MUT	~11 ~11.
Routine Tests:	Mr. M. M. A.	at at at	LIFE SLIER
N' - X A	TEK NITE INITE WALLE WAS	- no m	21, 7,
Supplementary information:			



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

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
7112 -	711.	- 4	Normal	TER WITE O	Writ War.	m -m
· WALTER -	INLIEK W	NIET WALTE WALL	Single fault: SC/ OC	y tiet si	i et milet w	LIEK WALTER
Supplemer	ntary infor	mation:	,			
[] bleeding	g resistor		., normal operation, or	open fuse), SC	C= short circuit, (	OC= open

5.6.6	TABLE: Resistance	of protective conduc	tors and termina	itions	N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
		At the sail	will -wer	2/4 /1/1 /2	, ',

5.7.4	TABLE: Unearthed accessible parts						
Location	Operating and fault	Supply	F	Parameters		ES class	
	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)		
المارين المارين	Normal	A- 10+	TEE- TEE	INLIE WALTE	W.T.	11/1 - 4	
	Abnormal	ALL THE	2424.	- A	- 5	18th-	
	Single fault: SC/OC	L - (E)	JEK -JEK	NITE NALLE	1000 11	-7/1	
Suppleme	ntary information:	P			1	1	
SC= short	circuit; OC= open circuit		Elt SET S	TE CLIE SI	in the	2/6	

5.7.5	TABLE: Earthed acces	sible conductive part				
Supply vo	Itage (V)	-14, 14, 2,	* #	LEN LEN	_	
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Dis	stribution System	[]TN []TT []IT				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commer	nt	
- Will	The Mr. Mr.	A - A A	18th 18th	CLIFE MAIN	OV.	
Suppleme	entary Information:					



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Victor Musical	Mrs. Mrs. All Mrs.	EN IEC 62368-1	TEX MITEX WHITE W	71.	711
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	Verdict

5.8	TABLE	「ABLE: 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
TIE MILL	Whis	mr. m	4, - 4,	/c <del>-</del> /	er <del>o</del> er .	LIER - NITE	WALL WA
Supplemen	tary infor	mation:					

6.2.2 T	TABLE: Power source circuit classifications					
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Battery	Normal	2.6	3.3	8.58	3S	PS1
Input (5VDC 500mA	() (- ) (- ) (- ) (- ) (- ) (- ) (- ) (	5.0	0.5	2.5	38	PS1

#### Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE: Determ	ination of Arcing PIS	Le sur	711 211 2	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
Test July		7 7 7 100	<b>-</b>	- t- 10	- JIE STE
Supplemen	tary information:				
t Jet	NITE WITE NO	The Miles		at left left	TEX STER

6.2.3.2	TABLE: Determi	nation of resistive PIS	The state of	N/A
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
Jille Mille	Wer. Ave.	m - * st	At At July	WILL WITH

### Supplementary information:

All circuits are considered as resistive PIS;

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

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

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

8.5.5	TABLE: High pre	essure lamp	ALTER MITER MAI	anti mur	24	N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		ticle found nd 1 m Yes / No
There was	ir wir wir	2/1	at let let	ALTER - ALTER I	N. C.	Waring All



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

				1,754,3						
Supplementary information:										
me, me m. m.	20	*	ot-	C. C. E.	NITER.	MITE	WITE	Mer	ALL	ah.

9.6	TABLE	E: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply voltage	ge (V).				Mer	14/2 11	40	7,1	_
Max. transmi	it powe	er of transn	nitter (W)		TEX	atter at	IEK MITE	WILLE	_
11/2 12 22 11 21 21 11					th receiver and with receiver ar distance of 2 r				ceiver and at ce of 5 mm
Foreign obj	ects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
11. 25.		L - 3+	74	16th- 10	The STATE	SILE S	nr n	-71/1	10
Supplementa	ary info	rmation:							

5.4.1.4, 9.3, B.1.5, B.2.6	E: Temp	erature m	easurei	ments	AUTE AUT.	WELK W	iek uitek	P
Supply voltage (V).			:	Powered by battery and speaker working normal	Powered by type C with fully dischargin g battery and speaker working normal	Powered by type C with fully dischargin g battery and speaker no work	Whitek w Whitek whi Tek white	_ s
Ambient temperatu	re during	test $T_{ m amb}$	(°C):	See below	See below	See below	y - 184	
Maximum measured temperature ${\cal T}$ of part/at:					Allowed T <sub>max</sub> (°C)			
DC connector				39.3	51.7	53.6	n - n	Ref.
PCB near IC				42.1	49.6	46.7	NITER INIT	105
Battery wire	, E*	All C	SEX OF	39.2	39.8	39.3		80
Battery	Vr. 19	10 14		39.7	38.1	37.9	15 TO 15	Ref.
Enclosure inside ne	ar batter	y t	- Will	38.1	36.8	36.8		Ref.
Ambient	. The	24	1	35.0	35.0	35.0	INITE S	11 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Enclosure Outside	Top near	PCB	WILL	27.1	29.9	29.1	Æ	77
Button	2/1/2	44		27.3	26.8	27.9	antite - and	77
Ambient	TEX	CLIFE W	Very R	25.0	25.0	25.0	* - x	* 76*
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω	) t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulatio n class
- NITE WALLE	in 191	-21/2			d - dt	State St	Er Cie	artite ar



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

### Supplementary information:

Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.

B.2.5	TABL	.E: Input to	est					WILL WILL AND A BUIL
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5V	NUTUR.	0.42	0.5		- united	<u></u> W	Luniti Vuniti	Empty battery and charged by USB type-C.
5V	y with	0.43	0.5	WILLER WALTER	WINLIEK V	MITER MITER	MALTEK MALTEK	Empty battery and charged by USB type-C. Speaker working with 1/8 Max non-clipped output power.
4.2 (Powered by fully charged battery)	onitek Stek	0.082	NATED AND	iste <del>s.</del> Miss Miss	sir <sup>e</sup> - w	- W White White	ek vini	Speaker working with 1/8 Max non- clipped output power.
Supplemen	itary inf	formation:						
10. 10.	7 1		7 A		CLER.	JE.	-20	are me me in

B.3, B.4	TABLE: Abnorr	nal operating	g and fau	It condit	ion tests	it unti mili m	Р
Ambient tem	perature T <sub>amb</sub> (°	C)	11/12	70-	: See b	pelow	_
Power source	e for EUT: Man	ufacturer, mo	del/type, c	outputrati	ng:	MULT WILL WILL	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	
AV	ry and charged by the rking with 1/8 Ma	1112		ower.	t JEX	LIEK WIEK WILEK W	NITEK WA
R26	Short circuit	5VDC	10mins	UNITER .	when whi	Unit working normally. damage, no hazard. Battery charging currer	
U2 pin 4 - 17	7 Short circuit	5VDC	10mins	TEK.	JEK - WITEK	Unit shutdown. No dam hazard.	nage, no
Powered by	fully charged ba	ittery	11, 11	4,	, , , , ,	at let let	JULEN .
U2 pin 17- 18	Short circuit	4.2VDC	10mins	ilik — NAT	NUTTE V	Unit shutdown. No dam hazard.	nage, no
Speaker	Max. available output power	4.2VDC	10mins	unliek unliek	MULTER MINITE	Normal operation, no d no hazard. Enclosure Outside Top PCB: 28.6°C Ambient: 25.0°C	#



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

Speaker	Short circuit	4.2VDC	10mins	51/2 - 21	10 Tay	Unit shut down immediately. No
WILL WALL	any an		20,		et et	damage, no hazard.

### Supplementary information:

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

- 1) 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.

1- :4:  -  -	30, 27,	otection circu				47		- J	7,15	21,		
is it possible	to install the	battery in a re	evers	e polarity	position?	:	20.					
					С	harg	ging					
Equipment S	pecification		Vo	ltage (V)					Current (A)			
		21, 24	97	5VDC	* 18		18th	LITER	0.5	Will		
					Battery	spe	pecification					
		Non-recharge	eable	batteries			Rec	hargeab	le batteries			
		Discharging		ntentional	C	Char	ging		Discharging	Reverse		
Manufacti				harging rrent (A)	Voltage (V) Curre		ent (A)	current (A)	charging current (A)			
Henan Hengyi lithium energy technology Co., Ltd / IMR18650- 1200mAh		whitek whitek	Whitek Mu		4.2		0.6		0.6	TEK <sub>WI</sub> LTE K		
Note: The tes	sts of M.3.2 a	re applicable o	only v	when abov	e appropri	ate o	data is	s not ava	nilable.			
Specified bat	tery tempera	ature (°C)	$a_h$			;	<i></i>	At C	-50°C			
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltage (V)	Obse	ervation		
- 1 <sub>n</sub> 2	Normal	Charge mod	de	7hour	11 <sup>fer</sup> 10 <sup>1</sup>	0.	485	4.1	Normal cha	arging.		
J2 pin 4 - 17	SC	Charge mode		7hour	EK TLEY	6	0	MUTEN	NL, NS, NE	E, NF		
- 18th 18	Normal	Discharge mode		7hour	-24	0.	082	4.1	Normal dis	charging.		
U2 pin 17- 18	SC	Discharge mode		7hour	White whi		0		NL, NS, NE, NF			

### 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.

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



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The same	The the time	EN IEC 62368-1	mir mir
Clause	Requirement – Test	Result – Remark	Verdict

M.4.2	TABLE:	Charging sa	feguards for	equipment	containing a	secondary lithium	LIEVP
Maximum	specified	charging voltag	ge (V)		4.2	24 24 4	_
Maximum	specified	charging curre	nt (A)		0.6	CLIER MALTER WAL	_
Highest sp	ecified ch	arging tempera	ature (°C)	214	50	4 4 2	
Lowest spe	ecified cha	arging tempera	ture (°C)		Oct with	VITE MALIE WALL	
Battery manufacturer/type		Operating				Observatio	n
		and fault condition	Charging voltage (V)	Charging current (A)	Temp.		
Henan Hengyi lithium energy	rgy	Normal condition	4.2	et Out	50	Stop charging	
technology / IMR18650 1200mAh		U2 pin 4 – 17 SC	4.2	0_	50	Stop charging	
White white w		Normal condition	4.2	ANTIER ANT	O TOTAL TOTAL	The charging voltage do not exceed 4.20V and the charging current does not exceed 0.485A.	
		U2 pin 17- 18 SC	4.2	0.00	O ULIE MAIL	The charging voltage does not exceed 4.20V and the charging current does no exceed 0.485A.	

Supplementary information:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)									
Output	Condition	11 (\( \( \) \( \)	Time (a)	I <sub>sc</sub> (A)		S (	VA)			
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit			
	Normal	NITER MILE	Mar.	10, - 14	8		100			
white wh	Single fault - SC/OC	- J+	zet-	16th 17th	8	NITE - WIT	100			
Supplement	ary Information:									
SC = short o	circuit, OC = open circuit	L st	all it	Et JET	WITE SIN	The WALL	me m			

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est	JEK M	TEK WILTER	WATER WATER WATER ON	P
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	



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				EN IEC	62368-1	life intie white whi	
Clause	Requireme	nt – Test	in me	. 70	700	Result – Remark	Verdict
Enclosure (T.4)	Plastics	1.5 m	ek until	100	5	Enclosure remained opening developed	intact, no crack
Supplement	ary informati	on:					
Supplement	ary informati	on:	-20° -	24.	J.L.	at at set s	3th 1817

T.6, T.9	TABLE: Impa	ct test	Mr. m.	N/A
Location/Pa	rt Material	Thickness (mm)	Height (mm)	Observation
21/2 - 21		A A	EK - LIER	Thirty white white whe will will be
Supplemen	tary information	:		
311. 21.	- L	at at all	- CLIEB	with whit with any one in

T.7	ABLE: Drop	test		THE MILE WILL WALL AND PURE
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Plastics		1.5	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementa	ry information:			
INLIE WILL	14, 14,	2 2	٠,	THE REPORT OF THE WALL WALL WALL

n Observation
Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.

X	TABLE: Alterna	ative met	hod for c	determinir	ig minimum clearand	ces distances N/A
	nce distanced etween:	Peak o	of working (V)	voltage	Required cl (mm)	Measured cl (mm)
ALTE MIL	in Mir Mr.	21/2		J+	THE THE LIER	alier mile- mile.
Supplemen	tary information:			,		

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard <sup>2</sup>		c(s) of cormity <sup>1</sup>



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Lang Maria	My My All	EN IEC 62368-1	ITE WILLER WILLER	Mr. Mr. Mil
Clause	Requirement – Test	Note that the me	Result – Remark	Verdict

Speaker	Interchangeable	Interchangeabl e	5W,4ohm, 2Pcs	EN IEC 62368-1	Test with appliance
Plastic enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AG15E1-H	ABS, HB, 60°C, min. thickness 1.5mm	UL 94	UL E162823
All PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	Interchangeabl e	Min. V-1, Min. 105°C, FR-4.0	UL 796	UL E330731
Internal Li- ion battery	Henan Hengyi lithium energy technology Co., Ltd	IMR18650- 1200mAh	3.7V, 1200mAh	IEC 62133-2: 2017 EN 62133-2: 2017	CB JPTUV- 137276



Supplementary information:

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

<sup>&</sup>lt;sup>2)</sup>License available upon request.



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# **Photo Documentation**

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Figure 1: Overall view



Figure 2: Overall view

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# **Photo Documentation**

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Figure 3: Internal view

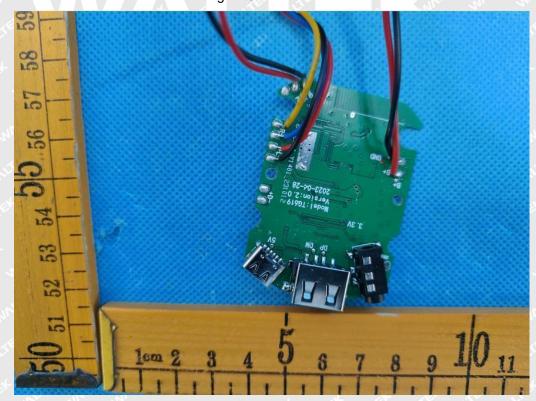


Figure 4: PCB view



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# **Photo Documentation**

Reference No.: WTF23D10230600Y

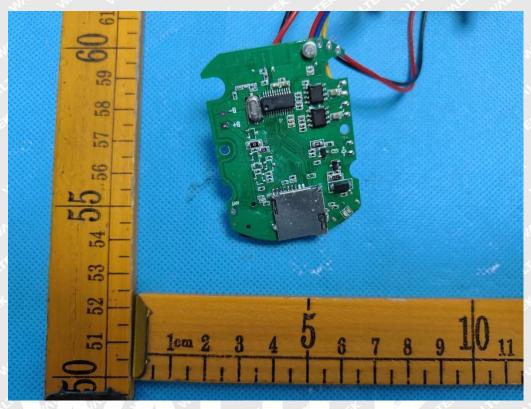


Figure 5: PCB view

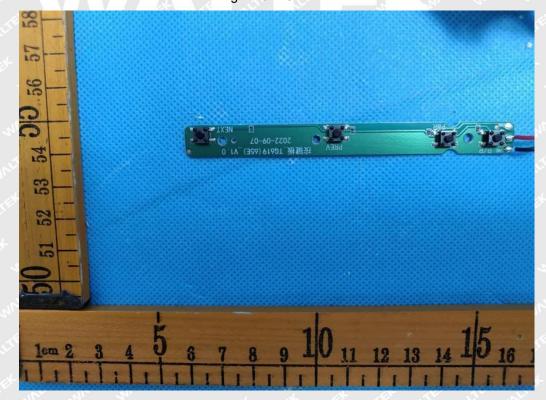


Figure 6: PCB view



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Figure 7: Battery view ===== End of Report ======