



# TEST REPORT

Reference No	; :	WTF24D03067595R1Y

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

Hong Kong

Manufacturer..... : 118897

Address.....: --

Product.....: Smart wireless health watch

Model(s)..... : MO2271

Total pages .....: 67 pages and 4 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2024-03-29 (Original test report);

2024-06-17 (Updated test report)

2024-06-17 to 2024-06-21 (Updated test report)

**Date of Issue**..... : 2024-06-24

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:

Approved by:

Almon Zhao/ Project Engineer

Deval Qin / Designated Reviewer

Devalgin



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Test item description Smart wireles	ss health watch
Trademark MOB	TEX TEX LIEX WITH WITH WITH WHITH
Model and/or type reference MO2271	in mer my my the
Rating(s) Input: 5VDC Battery: 3.7V	′, 180mAh
Remark:	at the feet that stiff with white
Whether parts of tests for the product have been sub	contracted to other labs:
☐ Yes ⊠ No	" A SE SEE SEE STEE STEE
If Yes, list the related test items and lab information:	THE WILL MILL MAN MUN MAN AND
Test items:	or an at the little
Lab information:	THE THE LIBER WITH WITH WITH WALL A
Summary of testing:	who are the set let
Tests performed (name of test and test clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020	No. 77, Houjie Section, Guantai Road,
The submitted samples were found to comply with the requirements of above specification.	Houjie Town, Dongguan City, Guangdong, China
EU Group Differences	368-1:2020+A11:2020.
Use of uncertainty of measurement for decisions	on conformity (decision rule) :
applicable limit according to the specification in the	ard, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
Other: (to be specified, for example when requirequirements apply)	red by the standard or client, or if national accreditation
OD-5014 for test equipment and application of test m IECEE.	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of n of measurement uncertainty principles and applying

the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or

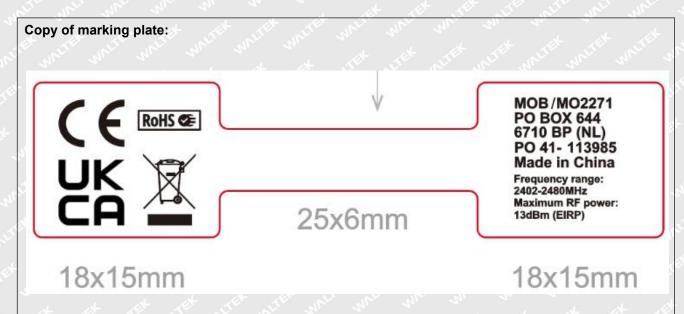
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

TEX SITEX

customer.

the testing.

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## Remark:

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



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TEST ITEM PARTICULARS:	With any and any and the
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<ul><li>□ A;</li><li>Location: □ building □ equipment</li><li>☑ N/A</li></ul>
Equipment mobility:	<ul> <li>☐ movable</li> <li>☐ hand-held</li> <li>☐ transportable</li> <li>☐ direct plug-in</li> <li>☐ stationary</li> <li>☐ for building-in</li> <li>☐ wall/ceiling-mounted</li> <li>☐ SRME/rack-mounted</li> <li>☐ other:</li> </ul>
Over voltage category (OVC):	□ OVC I       □ OVC III         □ OVC IV other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ ☐
Access location:	<ul><li>N/A ☐ restricted access area</li><li>☐ outdoor location ☐</li></ul>
Pollution degree (PD):	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	45°C  Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems	☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.05kg



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	S: (1)			
- test case does not apply to the tes	t object: N/A	N/A		
- test object does meet the requiren	nent: P (Pass)			
- test object does not meet the requ	irement F (Fail)	TER OLIEF MITER MOLIE WALL		
TESTING:	TEN MILE WALLE WAS MI	the state of the		
Date of receipt of test item	See cover p	ge. Life with white		
Date (s) of performance of tests	: See cover p	ige.		
GENERAL REMARKS:	A CH LIER NITE	WILL MILL MULL MALL M		
"(see Enclosure #)" refers to addition "(see appended table)" refers to a text Throughout this report a ☐ com	table appended to the report.	plies white white white whi		
····ora	·			
Product Description  1. The equipment with model MO2  2. It is powered by USB port conformations in the product of the product	271 is Smart wireless health wat			
Product Description  1. The equipment with model MO2  2. It is powered by USB port conforms  3. The maximum operating temper  All technical test data are based or marking plate and main board. The	271 is Smart wireless health wat rmed to LPS or powered by rech ature is 45°C. n the original report number WTF			
Product Description  1. The equipment with model MO2 2. It is powered by USB port conforms 3. The maximum operating temper  All technical test data are based or marking plate and main board. The Report Revision History:	271 is Smart wireless health wat rmed to LPS or powered by rech ature is 45°C. In the original report number WTF e Clause 9 temperature test and	orgeable Li-ion Battery. 24D03067595Y, but only changed th		
Product Description  1. The equipment with model MO2 2. It is powered by USB port conforms.  3. The maximum operating temper  All technical test data are based or marking plate and main board. The Report Revision History:  Report No.  Ref. No. WTF24D03067595Y,	271 is Smart wireless health wat rmed to LPS or powered by rech ature is 45°C. n the original report number WTF	orgeable Li-ion Battery. 24D03067595Y, but only changed th Annex B.2.5 input test were evaluat		
Product Description  1. The equipment with model MO2 2. It is powered by USB port conforms.  3. The maximum operating temper  All technical test data are based or marking plate and main board. The Report Revision History:  Report No.	271 is Smart wireless health wat rmed to LPS or powered by rech ature is 45°C.  In the original report number WTF e Clause 9 temperature test and	orgeable Li-ion Battery. 24D03067595Y, but only changed th Annex B.2.5 input test were evaluat		

Additional application considerations - (Considerations used to test a component or sub-

N/A

N/A

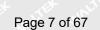
assembly)



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Clause	Possible Hazard						
5	Electrically-caused injury	Electrically-caused injury					
Class and Energy Source	Body Part		Safeguards				
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R			
ES1: All internal circuit	Ordinary	N/A	N/A	N/A			
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A			
6	Electrically-caused fire						
Class and Energy Source	Material part		Safeguards				
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S			
PS1: <15 Watt circuits (Battery circuit)	PCB	N/A	N/A	N/A			
PS2: ≥15 and <100 Watt circuits (All circuit except for the battery circuit)	PCB	Equipment Safeguards	N/A	N/A			
7	Injury caused by hazardo	us substances					
Class and Energy Source	Body Part Safeguards						
(e.g. Ozone)	(e.g., Skilled)	В	S	R			
N/A	N/A	N/A W	N/A	N/A			
8	Mechanically-caused inju	ry					
Class and Energy Source	Body Part		Safeguards				
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R			
MS1: Edges and corners	Ordinary	N/A	N/A	N/A			
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A			
9	Thermal burn						
Class and Energy Source	Body Part		Safeguards				
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R			
TS1: All accessible parts	Ordinary	N/A	N/A	N/A			
10	Radiation						
Class and Energy Source	Body Part		Safeguards				
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R			
RS1: LED	Ordinary	N/A	N/A	N/A			



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	1	V	7
1			

F١	JFR	GY	SO	IIR	CF	DI	AGR	$\Delta M$
=11	A = L	G I	JU	UN	CE	UI	AUN	MIVI

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

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

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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7	<u> </u>					
1, 21,		IEC 62368-1	life with while we			
Clause	Requirement – Test	aur. m. m.	Result – Remark	Verdict		

4	GENERAL REQUIREMENTS	2 - 10 - 11 - 11	Р
<del>4</del> 4.1.1	Acceptance of materials, components and	(See appended table 4.1.2)	P F
2)	subassemblies	me me m	
4.1.2 milited	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	MET P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests	THE THE REFERENCE	N/A
4.4.3.3	Drop tests	in my my m	N/A
4.4.3.4	Impact tests	15th LIER WILLER WILL	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
ry, Myr.	Glass impact test (1J)	LIER MITER WALTE WHILL W	N/A
et et	Push/pull test (10 N)	s s t st	N/A
4.4.3.8	Thermoplastic material tests	y the mit mit with whi	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E WILL MILL MILL MILL	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	OLITER WILLE WALL AND TO	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	EX P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	NV P



N/A

N/A

N/A

N/A

N/A

Ρ

N/A

N/A

N/A

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	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
alle.	THE THE STATE OF	ter with with whi wh	10		
. MITEK	No harm by explosion during single fault conditions	(See Clause B.4)	E PEN		
4.6	Fixing of conductors	See below	N/A		
LITE WAY	Fix conductors not to defeat a safeguard	TEX LIEK OLIEK WITE	N/A		
A	Compliance is checked by test	the the the the	N/A		
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A		
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A		
4.7.3	Torque (Nm)	ALTER INLIER WALLE WAS	N/A		
4.8	Equipment containing coin/button cell batteries	s A	N/A		
4.8.1	General	No coin/button cell batteries used.	N/A		
4.8.2	Instructional safeguard	THE LITER WITER WITER	N/A		
4.8.3	Battery compartment door/cover construction	1 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A		
WILL	Open torque test	EX NITER WITE WAITE W	N/A		
4.8.4.2	Stress relief test	The state of the s	N/A		
4.8.4.3	Battery replacement test	CLIEB WILL MALL WALL	N/A		
4.8.4.4	Drop test		N/A		
			_		

5	ELECTRICALLY-CAUSED INJURY			
5.2	Classification and limits of electrical energy sources			
5.2.2	ES1, ES2 and ES3 limits	it with me and an	Р	
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р	
5.2.2.3	Capacitance limits	No such capacitors	N/A	
5.2.2.4	Single pulse limits	No such single pulses	N/A	
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A	
5.2.2.6	Ringing signals	No such ringing signals	N/A	
5.2.2.7	Audio signals	u m m	P	
5.3	Protection against electrical energy sources	CER TEL STEE SLIE MIN	Р	

Likelihood of fire or shock due to entry of conductive object

4.8.4.5

4.8.4.6

4.8.5

4.9

4.10

4.10.1

4.10.2

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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<u> </u>	IEC 62368-1		1,,
Clause	Requirement – Test	Result – Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	THE THE THE SE	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	mr mr m	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	NITER WHITER WHITER WHITER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
WILL A	Accessibility to outdoor equipment bare parts	t tiek niter inter in	N/A
5.3.2.2	Contact requirements	My Am Am	N/A
incia and	Test with test probe from Annex V	alier while while while	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	an an at the	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIET MILE MILL MILL.	N/A
5.3.2.3	Compliance	s to the state	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at the state of	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	at the life	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	Р
5.4.1.5	Pollution degrees	ITE WALTE WALL WALL !	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* TITER WITER WITER WY	N/A
5.4.1.5.3	Thermal cycling test	The second second	N/A
5.4.1.6	Insulation in transformers with varying dimensions	CLIEF WILL WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	and the self-	N/A
5.4.1.8	Determination of working voltage	NITE WILL WILL WILL	N/A
5.4.1.9	Insulating surfaces	a state of	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	MULL MULL MILL M	N/A
5.4.1.10.2	Vicat test	CHIER WALLE WALLE WAL	N/A
5.4.1.10.3	Ball pressure test	The state of the	N/A
5.4.2	Clearances	WITE MUTTE WALL WHILE	N/A
5.4.2.1	General requirements	L St. St. Set.	N/A
k lek	Clearances in circuits connected to AC Mains, Alternative method	The Marie Marie Marie	N/A
5.4.2.2	Procedure 1 for determining clearance	H MITER WATER WALLE AM	N/A
All P	Temporary overvoltage	The state of	£ _
5.4.2.3	Procedure 2 for determining clearance	ALTER MITE MALL MALL	N/A



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Clause	IEC 62368-1	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.4.2.3.2.2	a.c. mains transient voltage	Mr. Mr. M	
5.4.2.3.2.3	d.c. mains transient voltage	18 11 AL	Mile _
5.4.2.3.2.4	External circuit transient voltage	mer me m	7F
5.4.2.3.2.5	Transient voltage determined by measurement	The still out the	NITE"
5.4.2.4	Determining the adequacy of a clearance using an	he me me	N/A
3.4.2.4	electric strength test	TEX OLIEK WITER WA	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t tet stet ste	N/A
5.4.2.6	Clearance measurement	Mr. Mr. Ang	N/A
5.4.3	Creepage distances	TEX LIET OLIET	N/A
5.4.3.1	General	111 111 11	N/A
5.4.3.3	Material group	STEK SLIEF WITER SI	- L
5.4.3.4	Creepage distances measurement	70, 20, 20	N/A
5.4.4	Solid insulation	Et niet unienni	N/A
5.4.4.1	General requirements	(t)	N/A
5.4.4.2	Minimum distance through insulation	WILL AUTE AUTE	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	The same of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	The Mer Mer M.	N/A
5.4.4.6.1	General requirements	t let let let	N/A
5.4.4.6.2	Separable thin sheet material	Mur Mr. M.	N/A
WHEE WA	Number of layers (pcs)	TEK JEK STEK	N/A
5.4.4.6.3	Non-separable thin sheet material	my my m	N/A
The Will	Number of layers (pcs)	TEK TEK WIELD	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at let let	N/A
5.4.4.6.5	Mandrel test	wer me me	N/A
5.4.4.7	Solid insulation in wound components	- TEX STEX STER	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	Any Any Any	N/A
TEK TEK	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	write were were	N/A
5.4.5	Antenna terminal insulation	LIER WALTER WALLE WA	N/A
5.4.5.1	General	st st st s	- N/A
5.4.5.2	Voltage surge test	WALTE WALT WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	1 4 4	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
" "	Clastic street that	EL MILL MILL MILL	NI/A	
F.4.0	Electric strength test		N/A	
5.4.6	Insulation of internal wire as part of supplementary safeguard	AUTE AUTE AUTE A	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	NITER WHITER WHITER WHI	N/A	
5.4.8	Humidity conditioning	at alt alt all	N/A	
- TEX	Relative humidity (%), temperature (°C), duration (h)	Must any any		
5.4.9	Electric strength test	intic wait wat	N/A	
5.4.9.1	Test procedure for type test of solid insulation	at at at	N/A	
5.4.9.2	Test procedure for routine test	Write Mury Mury M.	N/A	
5.4.10	Safeguards against transient voltages from external circuits	LIEK WITER WITER WINI	N/A	
5.4.10.1	Parts and circuits separated from external circuits	s at the set	N/A	
5.4.10.2	Test methods	NALTE WALL WALL	N/A	
5.4.10.2.1	General	at at the	N/A	
5.4.10.2.2	Impulse test	white with my a	N/A	
5.4.10.2.3	Steady-state test	at the	N/A	
5.4.10.3	Verification for insulation breakdown for impulse test		N/A	
5.4.11	Separation between external circuits and earth	ITE WALL WALL WALL	N/A	
5.4.11.1	Exceptions to separation between external circuits and earth	* SLITER WITER SMITH	N/A	
5.4.11.2	Requirements	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
Mr. Mr.	SPDs bridge separation between external circuit and earth	WHITE WHITE WALLE W	N/A	
The MULL	Rated operating voltage U <sub>op</sub> (V)	TEL LIER OLIER MI		
at at	Nominal voltage U <sub>peak</sub> (V)	L 1/11 1/11	_	
Mill	Max increase due to variation ΔU <sub>sp</sub>	EK STER WITE WALLE	_n _	
. At	Max increase due to ageing ΔU <sub>sa</sub>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	
5.4.11.3	Test method and compliance	THE WILL WALLE	N/A	
5.4.12	Insulating liquid	A A A	N/A	
5.4.12.1	General requirements	WHILE MILIE MILL M	N/A	
5.4.12.2	Electric strength of an insulating liquid	A ST ST ST	N/A	
5.4.12.3	Compatibility of an insulating liquid	THE WALL MALL MALL	N/A	
5.4.12.4	Container for insulating liquid	at the left that	N/A	
5.5	Components as safeguards	MULL MULL MULL	N/A	
5.5.1	General	No such components as safeguards.	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
in the second	The sheet was the same of the	Et . The . Street . William	* 100 COL
5.5.2	Capacitors and RC units	70, 70, 70,	N/A
5.5.2.1	General requirement	LIEF RITE WITE	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEX TEX STEEL O	N/A
5.5.3	Transformers	his me mi m	N/A
5.5.4	Optocouplers	CER STER STER SOL	N/A
5.5.5	Relays	111 121	N/A
5.5.6	Resistors	ALTER MITE MITE	N/A
5.5.7	SPDs	70 7	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	onlife unite white o	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIER WHITER WHITER WA	N/A
A TOLIER	RCD rated residual operating current (mA)	et let let like	· —
5.6	Protective conductor	the the co	N/A
5.6.2	Requirement for protective conductors	t TEX LIER SLIER	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	AF SUITE OF	N/A
5.6.3	Requirement for protective earthing conductors		N/A
in wire	Protective earthing conductor size (mm²)	LIE RITE WILL WALL	<u> </u>
k antiex	Protective earthing conductor serving as a reinforced safeguard	et ifet lifet Mifel	N/A
STEK 1	Protective earthing conductor serving as a double safeguard	THE THE TEX	N/A
5.6.4	Requirements for protective bonding conductors	MULL MULL MAN	N/A
5.6.4.1	Protective bonding conductors	at at our	N/A
, ,	Protective bonding conductor size (mm²)	ing my my my	_
5.6.4.2	Protective current rating (A)	et jet liet out	N/A
5.6.5	Terminals for protective conductors	Any Any Any	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	WALTER WALTER WALTER	N/A
INLITER OUN	Terminal size for connecting protective bonding conductors (mm)	UNITER WHITEH WHITEH	N/A
5.6.5.2	Corrosion	at the literal	N/A
5.6.6	Resistance of the protective bonding system	LIE WALL MAL MA	N/A
5.6.6.1	Requirements	at the till	N/A
5.6.6.2	Test Method	MULT MULT MULT	N/A
5.6.6.3	Resistance (Ω) or voltage drop	at at at	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
5.6.7	Reliable connection of a protective earthing conductor	the set set set is	N/A	
5.6.8	Functional earthing	Mult Mull Mill Mull	N/A	
LITET SIN'S	Conductor size (mm²)	TER TER STER STER	N/A	
	Class II with functional earthing marking	he me my my	N/A	
in white	Appliance inlet cl &cr (mm)	LEK LIEK SLIEK WLIEK IN	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	ex alter white white whi	N/A	
5.7.2.1	Measurement of touch current	20 x 14 16	N/A	
5.7.2.2	Measurement of voltage	CLIEB WILL WALL WALL	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	TEX STEX STEX WITEK	N/A	
5.7.4	Unearthed accessible parts	2 My 20 7	N/A	
5.7.5	Earthed accessible conductive parts	EX NIEX WITE WITE W	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	Tet let wiet out	N/A	
	Protective conductor current (mA)	The August Augus	N/A	
NITE WIL	Instructional Safeguard	AL RITER MITE	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A	
5.7.7.1	Touch current from coaxial cables	in the the the	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	MULTER WALTER WHITER WA	N/A	
5.7.8	Summation of touch currents from external circuits	THE MITES MITES WALT	N/A	
LIFE WAL	a) Equipment connected to earthed external circuits, current (mA)	TER LIER SLIER BLIER	N/A	
EK OLIEK	b) Equipment connected to unearthed external circuits, current (mA)	at get get get	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
MITER	Mains terminal ES	No battery used	N/A	
~	Air gap (mm)	The The The Land	N/A	

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	of the text the	CIE P CIT
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P VINLTEK



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<b>0</b> 1	IEC 62368-1		1,7
Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	P
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	WELL P.
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P VINITE
in in	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	Р
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX INCIEX WATER WALTER W	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Lifet SLIFET MITER MILE	N/A
6.4.3.1	Supplementary safeguards	ALL ALL AND AL	N/A
6.4.3.2	Single Fault Conditions	LEX MILL MILL	N/A
et di	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	TER WITE WALL WALL	Р
6.4.5	Control of fire spread in PS2 circuits	in the state of	P.
6.4.5.2	Supplementary safeguards	antil while whi	N/A
6.4.6	Control of fire spread in PS3 circuits	the lite of	N/A
6.4.7	Separation of combustible materials from a PIS	WILL MULL MULL MULL	N/A
6.4.7.2	Separation by distance	at let tet tret	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	of the text of	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	any any a	N/A
6.4.8.2.1	Requirements for a fire barrier	- the the wife and	N/A
6.4.8.2.2	Requirements for a fire enclosure	me me me	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	While Writer Writer While	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	at let let liet	N/A
6.4.8.3.2	Fire barrier dimensions	is me me	N/A
6.4.8.3.3	Top openings and properties	et let let let let	N/A
-A	Openings dimensions (mm)	Mur Mu M. M.	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A



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01	IEC 62368-1	David David	\/ !: t
Clause	Requirement – Test	Result – Remark	Verdict
- C.A.	Openings dimensions (mm)	The Aug of the	N/A
Mur, M	Flammability tests for the bottom of a fire enclosure	White white white whi	N/A
LITE MAL	Instructional Safeguard	TEH ITEK NITER MITER	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
WILL	Openings dimensions (mm)	ter liter alier anie a	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	THE THE THE	N/A
6.4.9	Flammability of insulating liquid	While Must me me	N/A
6.5	Internal and external wiring	It let let let let	THE P
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P Tet whi
6.5.2	Requirements for interconnection to building wiring	White Military and	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	EQ.	P
7.2	Reduction of exposure to hazardous substance		N/A
7.3	Ozone exposure	the there were	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (DDF)	N/A
4	Personal safeguards and instructions	ive equipment (i i L)	
7.5	Use of instructional safeguards and instruction	STEP THE NUMBER	N/A
11.0 - CH	Instructional safeguard (ISO 7010)		
7.6	Batteries and their protection circuits	TE ALL MITTER TE	Р
- Alt	THE LIFE BUT TO THE WINDS	111, 12,	
8	MECHANICALLY-CAUSED INJURY		J/P
8.2	Mechanical energy source classifications		
8.3	Safeguards against mechanical energy sources	WILL MUTTE MUTTER WALL WALL	₩ P
8.4	Safeguards against parts with sharp edges and corners		
8.4.1	Safeguards	The Maria Aug. Aug.	Р
MALTER	Instructional Safeguard	MS1: Edges and corners of enclosure	FET P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P



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1 City	Mrs. we have the	IEC 62368-1	TEL STEE WIFE ST	rie mice mice
Clause	Requirement – Test	Will My	Result – Remark	Verdict

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



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20,	IEC 62368-1	KLIFE WELL WALL WALL	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
2/12	All the tenth of the tenth of	Et with white whi w	100 111
8.6.2	Static stability		N/A
8.6.2.2	Static stability test:	WILLER MULLE MULL MU	N/A
8.6.2.3	Downward force test	L A A A	N/A
8.6.3	Relocation stability	WILL MUTTE MUTTER AND	N/A
	Wheels diameter (mm):	at let let liet	_
701	Tilt test	in mur, mur, mur,	N/A
8.6.4	Glass slide test	t let like like i	N/A
8.6.5	Horizontal force test	Mer Mr. Mr. M.	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ıcture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	ITEL STEEL WITER STATE	N/A
++	Test 1, additional downwards force (N):	2111 111 111	N/A
MULL	Test 2, number of attachment points and test force (N)	ER WHITE WHITE WHITE	N/A
WALTER W	Test 3 Nominal diameter (mm) and applied torque (Nm)	Whitek Miller Miller An	N/A
8.8	Handles strength	at the st	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	The Little	N/A
	Number of handles:	in my min	
antie".	Force applied (N)	A TEX TEX STEEL	من الله به منات
8.9	Wheels or casters attachment requirements	24, 24, 24, 2	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	211- 211- 211-	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	Et TEX TEX NITE	N/A
8.10.3	Cart, stand or carrier loading test	The The The	N/A
MALTE	Loading force applied (N)	- LIEY NLIER WILL OF	N/A
8.10.4	Cart, stand or carrier impact test	111 111 111 11	N/A
8.10.5	Mechanical stability	ALTER MITER MALTER MALT	N/A
jek je	Force applied (N)	in the state of	
8.10.6	Thermoplastic temperature stability	LIEF WITE WALLE WALLE	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	1 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
"IL"	The The Table	ITER LIFE WITE WALL	The Me
	Instructional Safeguard		N/A
8.11.3	Mechanical strength test	LIER NITER MITE MILL	JIN/A
8.11.3.1	Downward force test, force (N) applied	:	N/A
8.11.3.2	Lateral push force test	alter until wall of	N/A
8.11.3.3	Integrity of slide rail end stops	A A A	N/A
8.11.4	Compliance	Wite Will Mury My	N/A
8.12	Telescoping or rod antennas	a at at a	N/A
1/2 /	Button/ball diameter (mm)	: No such parts	7/1/2

9	THERMAL BURN INJURY		ZIL B
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)	IEK PLI
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy source	SITE MITE WALL WALL	A <sub>U</sub> , b
9.5	Requirements for safeguards		P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	THE VIN
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitt	ers to the tree tree tree	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	THE STEE STEEL WITH MILITE	N/A
9.6.3	Test method and compliance	:2	N/A

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



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AV 33		<u> </u>			
in an	IEC 62368-1				
Clause	Requirement – Test	MUT. All A	Result – Remark	Verdict	

10.3	Safeguards against laser radiation	7, 7	N/A
mr. m	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	MALT P
10.4.1	General requirements	LED: Classed as RS1 (Exempt Group)	TER P
WALTER	Instructional safeguard provided for accessible radiation level needs to exceed	t is the street while the	N/A
A	Risk group marking and location:	7/11 /12 / 24	N/A
West all	Information for safe operation and installation	LIER WILL WILL MILLE	N/A
10.4.2	Requirements for enclosures	the the test	N/A
r. Mrs	UV radiation exposure:	LIER WILL WALL WALL	N/A
10.4.3	Instructional safeguard	a de la	N/A
10.5	Safeguards against X-radiation	it with with me	N/A
10.5.1	Requirements	No X-radiation	N/A
11/2 11	Instructional safeguard for skilled persons:	WHITE WALL THE WALL	_
10.5.3	Maximum radiation (pA/kg)	At The The	_
10.6	Safeguards against acoustic energy sources	1 11 11	N/A
10.6.1	General	THE THE	N/A
10.6.2	Classification	is my me and a	N/A
NITE	Acoustic output L <sub>Aeq,T</sub> , dB(A):	t tet jet sitet mi	N/A
	Unweighted RMS output voltage (mV):	my my m	N/A
Willer W	Digital output signal (dBFS)	TEX STEE STEE SOUTH	N/A
10.6.3	Requirements for dose-based systems	The the total	N/A
10.6.3.1	General requirements	LIER NITER WITE WHITE	N/A
10.6.3.2	Dose-based warning and automatic decrease	70 x x+	N/A
10.6.3.3	Exposure-based warning and requirements	EX OLIE WALLE WALLE OUR	N/A
TEX	30 s integrated exposure level (MEL30)		N/A
21/2 2	Warning for MEL ≥ 100 dB(A)	WILL MILL MULL MULL	N/A
10.6.4	Measurement methods	t at all let	N/A
10.6.5	Protection of persons	WHITE WHITE WALL WHE	N/A
TEX STE	Instructional safeguards	at all all the	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	The me and a	N/A
10.6.6.1	Corded listening devices with analogue input	et intie white white wh	N/A
TEX.	Listening device input voltage (mV)	t at at a	N/A
10.6.6.2	Corded listening devices with digital input	alte mil wall wall	N/A



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Clause	Requirement – Test	Result – Remark	Verdict		
2112	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	the sure of the sure of	N/A		
10.6.6.3	Cordless listening devices	alies wife wife wal	N/A		
it .	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	The state of the s	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		TEK P
B.1	General A THE THE THE TIPE TO THE TOTAL THE TIPE TO THE TIPE THE TIPE TO THE T		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P
B.2	Normal operating conditions	Mr. Mr. Mr. An.	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	WILL P
LIEK WAL	Audio Amplifiers and equipment with audio amplifiers	STEEL MATER WATER WALTER	NITE P
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	L at at all of	Р
B.3.1	General	(See appended table B.3)	, P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
2.	Instructional safeguard	2 24 24	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	UL P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions	ing my my my	Р
B.4.1	General	et tet tet atter	P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	P WALT
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	N/A
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A



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20,	IEC 62368-1	Tile Wer Mar Mar .	21, 20,
Clause	Requirement – Test	Result – Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P.F
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV re	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	. Let get get al	N/A
C.2	UV light conditioning test	MULT AUG 241 CAN	N/A
C.2.1	Test apparatus	At Just wife	N/A
C.2.2	Mounting of test samples	2 24 24	N/A
C.2.3	Carbon-arc light-exposure test	TEN LIE MILLER MITTER	N/A
C.2.4	Xenon-arc light-exposure test	240 An 20 T	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	741 24 T	N/A
D.2	Antenna interface test generator	LIER WILL MILL MILL	N/A
D.3	Electronic pulse generator	70 Th. 14 1/4	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N. P.
E.1	Electrical energy source classification for audio	o signals	A P
The same	Maximum non-clipped output power (W)	See appended table	<u> </u>
- CIER	Rated load impedance (Ω):	See appended table	<u> </u>
20, 1	Open-circuit output voltage (V):	See appended table	_
. 1. T. E.K.	Instructional safeguard:	See appended table	
E.2	Audio amplifier normal operating conditions	Mur Mur Mur Mur	Р
ITE NALT	Audio signal source type:	See appended table	
e st	Audio output power (W)	See appended table	_
MULL	Audio output voltage (V)	See appended table	3 _
	Rated load impedance (Ω)	See appended table	e —
WILL 7	Requirements for temperature measurement	THE STEE WITH WITH	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Me		Er Stir Will SULL SUL	The
E.3	Audio amplifier abnormal operating conditions	7. 1 A	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	W P
F.1	General	TER THE WIFE WIFE	P
	Language:	English	_
F.2	Letter symbols and graphical symbols	TEX SITE WITE WAITE W	P.
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P 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	ULL MULL MULL MULL	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	P
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	Р
F.3.3.3	Nature of the supply voltage:	The April of the	N/A
F.3.3.4	Rated voltage:	LIEK ALTER MITTER AMITE	N/A
F.3.3.5	Rated frequency:	The state of the s	N/A
F.3.3.6	Rated current or rated power:	LIER MITER MITER WALTER	N/A
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	a at at a	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	MULL MULL MULL MILL	N/A
F.3.5.2	Switch position identification marking:	ALTER OLIE MALTE MALTE	N/A
F.3.5.3	Replacement fuse identification and rating markings:	TEX STEX STEX SUITER	N/A
عاد با	Instructional safeguards for neutral fuse	. W. W. W.	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	THE THE STATE OUT	N/A



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01	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	my my my	N/A
F.3.6.1.1	Protective earthing conductor terminal	TEN TEN NITER MITE	N/A
F.3.6.1.2	Protective bonding conductor terminals	the say in the	N/A
F.3.6.2	Equipment class marking:	TEX STEX CLIEN WITE W	N/A
F.3.6.3	Functional earthing terminal marking:	74, 74,	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	100
F.3.8	External power supply output marking:	TEX STEX STEE WITE	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	MITEL P
F.3.10 FEX	Test for permanence of markings	The label was subjected to thepermanence of marking test. Thelabel was rubbed with cloth soakedwith water for 15 sec. And thenagain for 15 sec, with the clothsoaked with petroleum spirit. After this test there was nodamage to the label. The markingon the label did not fade. Therewas no curling and lifting of thelabel edge. After each test, the markingremained legible.	TEK PONTER WALTER
F.4	Instructions	E WELL MET ME AND AND	Р
- STEK O	a) Information prior to installation and initial use	See user manual	Р
an an	b) Equipment for use in locations where children not likely to be present	white and any	N/A
er m	c) Instructions for installation and interconnection	NITE WILL WHITE WALL	N/A
ek waltek	d) Equipment intended for use only in restricted access area	EX STEX BUTER MUTER	N/A
- Let	e) Equipment intended to be fastened in place	10 The state of th	N/A
Aller A	f) Instructions for audio equipment terminals	MITER MITE WALL WALL WALL	√/P
LEF C	g) Protective earthing used as a safeguard	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
ing an	h) Protective conductor current exceeding ES2 limits	MILE MALL MILL MALL	N/A
WALTE	i) Graphic symbols used on equipment	TEX STEX WITE SUITE	N/A
et inliest	j) Permanently connected equipment not provided with all-pole mains switch	at the test that the	N/A
All the	k) Replaceable components or modules providing safeguard function	The the the	N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
The same	N Familian and a state of the s	Er Will Will Will	NI/A
- Liet 1	I) Equipment containing insulating liquid		N/A
<u> </u>	m) Installation instructions for outdoor equipment	White where where	N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		√ P √
G.1	Switches		N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	e of our out	N/A
G.1.3	Test method and compliance	mer are were	N/A
G.2	Relays	at at 18th	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	at let let i	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	t it it is	N/A
G.2.4	Test method and compliance	E WILL MUT AND	N/A
G.3	Protective devices	and the set	N/A
G.3.1	Thermal cut-offs	No such component	N/A
INLIEK WIN	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	or white we	N/A
TEX WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The Time Mile Mark	N/A
G.3.1.2	Test method and compliance	24, 25, 2	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	TEL STELL SITER	N/A
	b) Thermal links tested as part of the equipment	my my my	N/A
G.3.2.2	Test method and compliance	TEX LIEX WIFE W	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	No such component	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	the text rest	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	Mr. Mr. Mr.	N/A
G.3.5.2	Single faults conditions:	MULLE MULL MULL AL	N/A
G.4	Connectors	A 1 1 1 5	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	A 18 18 58	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	ment ment wint	N/A



N/A

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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.5	Wound components	the way one	N/A	
G.5.1	Wire insulation in wound components	No such component	N/A	
G.5.1.2	Protection against mechanical stress	40, 40, 4	N/A	
G.5.2	Endurance test	NITER INLIES WALLE WA	N/A	
G.5.2.1	General test requirements		N/A	
G.5.2.2	Heat run test	TER WALLE MALL WALL	N/A	
TEX	Test time (days per cycle)	L St. St. St.		
1/2 1	Test temperature (°C):	White the Mar		
G.5.2.3	Wound components supplied from the mains	et et set	N/A	
G.5.2.4	No insulation breakdown	Mury Mrs. Mrs. M	N/A	
G.5.3	Transformers	all the the st	N/A	
G.5.3.1	Compliance method	in my m	N/A	
WILL	Position:	EX TEX STER BUTE	N/A	
	Method of protection	In In In	N/A	
G.5.3.2	Insulation	LIEL SLIER WILLE	N/A	
it i	Protection from displacement of windings:	'M' A		
G.5.3.3	Transformer overload tests	White M	N/A	
G.5.3.3.1	Test conditions		N/A	
G.5.3.3.2	Winding temperatures	LIE WILL WALL WALL	N/A	
G.5.3.3.3	Winding temperatures - alternative test method	at at all	N/A	
G.5.3.4	Transformers using FIW	MALL WALL WALL	N/A	
G.5.3.4.1	General	the state of	N/A	
m. m.	FIW wire nominal diameter:	MUTTE MUTT MUTTER	n	
G.5.3.4.2	Transformers with basic insulation only	at let fet	N/A	
G.5.3.4.3	Transformers with double insulation or reinforced insulation	net and and an	N/A	
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	The mail mail mail	N/A	
G.5.3.4.5	Thermal cycling test and compliance	NIE MIE WITE	N/A	
G.5.3.4.6	Partial discharge test	An In In In	N/A	
G.5.3.4.7	Routine test	WILL WILL MILL MILLE	N/A	
G.5.4	Motors	No motors used.	N/A	
G.5.4.1	General requirements	LIE MALL WALL WALL	N/A	
G.5.4.2	Motor overload test conditions	a st st st	N/A	
G.5.4.3	Running overload test	in with mur mur	N/A	

Locked-rotor overload test

G.5.4.4.2



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-20.	IEC 62368-1	all the sale sale	20, 20
Clause	Requirement – Test	Result – Remark	Verdict
7/1	Test duration (days)	the with mile man	1/10. 1/10
0.64.5	Test duration (days):	at at at	
G.5.4.5	Running overload test for DC motors	white are were	N/A
G.5.4.5.2	Tested in the unit	d 10 50 5	N/A
G.5.4.5.3	Alternative method	With Chir. Chir. All.	N/A
G.5.4.6	Locked-rotor overload test for DC motors	at the top of	N/A
G.5.4.6.2	Tested in the unit	y Mr. Mr. M.	N/A
- CIER	Maximum Temperature	t at all all	N/A
G.5.4.6.3	Alternative method	were were man	N/A
G.5.4.7	Motors with capacitors	et let let	N/A
G.5.4.8	Three-phase motors	were mer mer a	N/A
G.5.4.9	Series motors	at the text of	N/A
.1 .4	Operating voltage:	or mer me in	
G.6	Wire Insulation	CEK ITEK STIEK STIE	N/A
G.6.1	General	24, 24, 24,	N/A
G.6.2	Enamelled winding wire insulation	LIEN STEEL BLIEF	N/A
G.7	Mains supply cords	11. 11. 1	N/A
G.7.1	General requirements	No such component	N/A
A 18	Туре	7 1	, -
G.7.2	Cross sectional area (mm² or AWG):	THE RITE WITE WITE	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	* TER STER WITH	N/A
G.7.3.2	Cord strain relief	24 24 2.	N/A
G.7.3.2.1	Requirements	LIER NITE MITE	N/A
	Strain relief test force (N)	111 121 12	N/A
G.7.3.2.2	Strain relief mechanism failure	LIEF WIFE WILLIAM	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		A N/A
G.7.3.2.4	Strain relief and cord anchorage material	IET MITE WALTER WALT	N/A
G.7.4	Cord Entry	1 1 2 et	N/A
G.7.5	Non-detachable cord bend protection	INLIE MALIE WALTE	N/A
G.7.5.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.7.5.2	Test method and compliance	WILL WILL MALL M	N/A
TEKWALTE	Overall diameter or minor overall dimension, <i>D</i> (mm)	TEX OUTEX WITEX WAY	TEK —
t st	Radius of curvature after test (mm)	40. 70. 4	<u> </u>
G.7.6	Supply wiring space	CHARLES OF THE	N/A
G.7.6.1	General requirements	70, 70, 0,	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
0.7.0.0	Character describes	the wife was one we	21/0	
G.7.6.2	Stranded wire	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.7.6.2.1	Requirements	MULL WILL ME ME	N/A	
G.7.6.2.2	Test with 8 mm strand	The set of the settle	N/A	
G.8	Varistors	with the man man	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	in mir, mir, my a	N/A	
G.8.2.1	General	t at all all s	N/A	
G.8.2.2	Varistor overload test	Mur Mur Mur Mur	N/A	
G.8.2.3	Temporary overvoltage test	at at at all	N/A	
G.9	Integrated circuit (IC) current limiters	were the the the	N/A	
G.9.1	Requirements	No such component	N/A	
100	IC limiter output current (max. 5A):	ir mer mer in	_	
The state of	Manufacturers' defined drift:	et the tiet aller al	_	
G.9.2	Test Program	m m m	N/A	
G.9.3	Compliance	TEX STEE STEE SOLIES	N/A	
G.10	Resistors	THE THE THE THE	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.10.3	Resistor test	TER ALTE MITTINGER	N/A	
G.10.4	Voltage surge test	The state of the s	N/A	
G.10.5	Impulse test	A STEE WILLIAM AND AND	N/A	
G.10.6	Overload test		N/A	
G.11	Capacitors and RC units	COLIFE WALL WALL	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	RITER WILL MILL MILL	N/A	
G.11.3	Rules for selecting capacitors	a state of	N/A	
G.12	Optocouplers	The way with a	N/A	
WINLTEK W	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
All C	Type test voltage V <sub>ini,a</sub> ::	a at at all		
45 145	Routine test voltage, V <sub>ini, b</sub> :	WILL MILL MULL MILL		
G.13	Printed boards	at the state state	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	
G.13.2	Uncoated printed boards	20, 20, 20,	N/A	
G.13.3	Coated printed boards	Alt 18th 18th 18th 18th	N/A	



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	IEC 62368-1		1
Clause	Requirement – Test	Result – Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface	Tet Tet Tet	N/A
G.13.5	Insulation between conductors on different surfaces	Mr. Mr. Mr.	N/A
- 711	Distance through insulation	Will Auto Auto Au	N/A
EK NITER	Number of insulation layers (pcs)	at alt alt of	<i>*</i>
G.13.6	Tests on coated printed boards	The Augustin	N/A
G.13.6.1	Sample preparation and preliminary inspection	t get get get	N/A
G.13.6.2	Test method and compliance	The Mr. Mr.	N/A
G.14	Coating on components terminals	TEX ITEX SITES	N/A
G.14.1	Requirements	Mr. Mr. M.	N/A
G.15	Pressurized liquid filled components	ITEK SITEK SITEK ASI	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	EX NIET WITE WITE	N/A
G.15.2.1	Hydrostatic pressure test	70 T 74	N/A
G.15.2.2	Creep resistance test	CLIER WILLE WALLE	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	Mari W	N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test	The Will Mill Mill	N/A
G.15.3	Compliance	e st set set	N/A
G.16	IC including capacitor discharge function (ICX)	MULL MULL MULL	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
20, 20,	ICX with associated circuitry tested in equipment	They were the	N/A
LIE MIT	ICX tested separately	TEK TEK JUEK O	N/A
G.16.2	Tests	in my my	N/A
MALIE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	iet millet miller mill	_ n
WALTER	Mains voltage that impulses to be superimposed on	ALTER MALTER WALTER	whit -
NITEK WIN	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	THE STEEL WITHER	ALTEK -
G.16.3	Capacitor discharge test	m m	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
H.1	General (1997)	- Ju - J	N/A
H.2	Method A	IEF WILL WALLE WALLE	N/A
H.3	Method B		N/A



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- 20,	IEC 62368-1	KILL THE THE THE	24 45
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the test the	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STEEL	. –
H.3.1.4	Single fault current (mA):	y Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t tex stex stex stex st	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the test states of the	N/A
H.3.2.2	Tripping device	mer mer an	N/A
H.3.2.3	Monitoring voltage (V):	tel tel tel stell stille	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	OUT INTERLEAVED	N/A
J.1	General	ie muri muri muri m	N/A
CLITER OF	Winding wire insulation:	the test tills at	· —
'th	Solid round winding wire, diameter (mm):	The Me Me Me	N/A
NLTER WILL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	The State	LIFET TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		
TEK .	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	at at telt the	N/A
K.4	Interlock safeguard override	intit muti wat war	N/A
K.5	Fail-safe	at let let liet	N/A
K.5.1	Under single fault condition	Mr. Mr. M. A.	N/A
K.6	Mechanically operated safety interlocks	A THE THE THE W	N/A
K.6.1	Endurance requirement	The Mr. M. A.	N/A
K.6.2	Test method and compliance	TER LIER MITTER MITTE	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET MILITER MILITER MILITER.	N/A
WILLEY	In circuit connected to mains, separation distance for contact gaps (mm):	the secretary and the second	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	stiek street states white	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
"In	And the state of the state and	E. Will Mary and Mar	211	
ANTEK N	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A	
K.7.2	Overload test, Current (A):	Mrs. Mrs. Mr. Mr.	N/A	
K.7.3	Endurance test	TEX LIEX NUTER MUTER	N/A	
K.7.4	Electric strength test	w m m	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	711 111	N/A	
L.2	Permanently connected equipment	t still with write will	N/A	
L.3	Parts that remain energized	AN AN AN AN	N/A	
L.4	Single-phase equipment	CLIER WILL WALL WALL	N/A	
L.5	Three-phase equipment		N/A	
L.6	Switches as disconnect devices	LIFE WILL WILL MALL	N/A	
L.7	Plugs as disconnect devices	a start of the	N/A	
L.8	Multiple power sources	the write many which we	N/A	
Stell	Instructional safeguard	at at let di	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р	
M.1	General requirements	at the life	υP	
M.2	Safety of batteries and their cells	2 241- 241	Р	
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	P.I	
M.3	Protection circuits for batteries provided within the equipment	* TITEL MILES WAITER WAY	EK P.	
M.3.1	Requirements	10 L A A	P.	
M.3.2	Test method	CLIEF WITE WALL WALL	AL. B	
LIFEX MAL	Overcharging of a rechargeable battery	(See appended table AnnexM)	UNLITE'P	
EK MITEK	Excessive discharging	(See appended table AnnexM)	TEK P	
CLER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
7012 1	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A	
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	WITE W	
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		Р	
M.4.1	General	at at the site	Р	



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100	IEC 62368-1	of the same of the same	a do,
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	P
M.4.2.1	Requirements	t at all out of	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	PS1 circuit	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	whi whi will will	Р
M.4.4.2	Preparation and procedure for the drop test	THE MULL MULL MULL	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%.	JEK PA
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	MILTP
M.4.4.6	Compliance	the set	Р
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	EK P.
M.5.2	Test method and compliance	The state of	N/A
M.6	Safeguards against short-circuits	WILL WILL MILL MILL	JIN P
M.6.1	External and internal faults	at at let let	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	P
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
A 4	Calculated hydrogen generation rate:	me m m	N/A
M.7.2	Test method and compliance	TEX STER MITER MITER	N/A
+ et	Minimum air flow rate, Q (m³/h)	20, 20, 7	N/A
M.7.3	Ventilation tests	ex rifer write write on	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1	LIE NITE INLIVERING	N/A



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-24.	IEC 62368-1	the the the	50. a.
Clause	Requirement – Test	Result – Remark	Verdict
- Ch.	Hydrogen gas concentration (%)	they we are an	N/A
M.7.3.3	Ventilation test – alternative 2	TEE LIE ALIER MA	N/A
10.0.0	Obtained hydrogen generation rate:	The Mr. Mr. M.	N/A
M.7.3.4	Ventilation test – alternative 3	THE THE NIET WITCH	N/A
WI.7.0.4	Hydrogen gas concentration (%)	in the an an	N/A
M.7.4	Marking	CET THE WALL OF	N/A
M.8	Protection against internal ignition from external	al snark sources of hatteries	N/A
WI.O LIE	with aqueous electrolyte	ar spark sources or batteries	INA
M.8.1	General	The state of	N/A
M.8.2	Test method	CLIEB WILL WALL WALL	N/A
M.8.2.1	General	and the state of	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):	LIET WILLE WHILE WHILE	11/2 _21
M.8.2.3	Correction factors:	a at at at	16k -0
M.8.2.4	Calculation of distance d (mm):	the wall and any	7/1
M.9	Preventing electrolyte spillage	at the the	N/A
M.9.1	Protection from electrolyte spillage	were my me me	N/A
M.9.2	Tray for preventing electrolyte spillage	the state of the	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	The life that	N/A
-41	Instructional safeguard	The Marie Marie Marie a	N/A
N TEE	ELECTROCHEMICAL POTENTIALS	at let let let i	N/A
4,	Material(s) used:	They are the top	
0.5	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
30 - 20	Value of X (mm):	We Me Me My	_
P JOL	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS at the little allies	P
P.1	General Andrews Andrew	See below	Р
P.2	Safeguards against entry or consequences of entry of a foreign object		Р
P.2.1	General	10, 10, 10, 10, 1	P
P.2.2	Safeguards against entry of a foreign object	alter miles antic and	JI P
, Et	Location and Dimensions (mm)	No opening.	A.*
P.2.3	Safeguards against the consequences of entry of a foreign object	MULTER WALLE MALLE WALLE	N/A
P.2.3.1	Safeguard requirements	TER STEE WITE SUITE	N/A
* WITEK	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	et tet tet tet	N/A
- 19. - 19.	Transportable equipment with metalized plastic parts	My My My My	N/A



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01	IEC 62368-1		1.7
Clause	Requirement – Test	Result – Remark	Verdict
P.2.3.2	Consequence of entry test:	The The The The	N/A
P.3	Safeguards against spillage of internal liquids	CLIFF INLIFE WHILE WHILE	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	WILL MUTE WHILL WHI	N/A
P.3.3	Spillage safeguards	and the set	N/A
P.3.4	Compliance	the Merit Merit Merit A	N/A
P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	at left left life	N/A
in in	Conditioning, T <sub>C</sub> (°C)	where any one and	
LIER INL	Duration (weeks)	THE THE THE STEEL	OLIE O
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	EX TEX TEX WITER	N/A
Q.1.1	Requirements	24, 24, 25,	N/A
Write (	a) Inherently limited output	TEX STEE OUTE WALT	N/A
A	b) Impedance limited output	The state of the s	N/A
VEL ALL	c) Regulating network limited output	Little Mills	N/A
at a	d) Overcurrent protective device limited output		N/A
, Mr.	e) IC current limiter complying with G.9	LIE MITE WALL WALL V	N/A
Q.1.2	Test method and compliance		N/A
21/2	Current rating of overcurrent protective device (A)	White Mail Mail M	N/A
Q.2	Test for external circuits – paired conductor cable	WILLIER WALTER WALTER WALTER	N/A
The Mi	Maximum output current (A)	the the life dies	N/A
4 1	Current limiting method	Ve Me Me Me	
R	LIMITED SHORT CIRCUIT TEST	THE LIER SLIER WITE OF	N/A
R.1	General of the tree was all the tree with the tree was a second to the	No such consideration.	N/A
R.2	Test setup	- LIER WITE WITE WHI	N/A
-C+	Overcurrent protective device for test:	20, 20, 20	
R.3	Test method	WILL WILL MULL MULL	N/A
LET S	Cord/cable used for test		7.EX-
R.4	Compliance	LIET WILLE WILLE	N/A
S de	TESTS FOR RESISTANCE TO HEAT AND FIRE	s at at at	N/A
S.1	Flammability test for fire enclosures and fire bawhere the steady state power does not exceed		N/A
We a	Samples, material:	ALTER MITTER MALIER MALE	Miles



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Clause	IEC 62368-1	Decult Demont	Mandiat
Clause	Requirement – Test	Result – Remark	Verdict
	Wall thickness (mm):	21/2 2/2 2/1	
War. W	Conditioning (°C)	ALTER WALTER MALTER	mure min
NITEK WA	Test flame according to IEC 60695-11-5 with conditions as set out	TEX LIEK NUTER	N/A
A 16	- Material not consumed completely	11. 14. 12.	N/A
MULL	- Material extinguishes within 30s	JEK OLIEK WLIE WA	N/A
- 11	- No burning of layer or wrapping tissue	W 4	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
TEX.	Samples, material:	The state of the	16th 55th
115 111	Wall thickness (mm)	WILL WILL WILL	me m_
CIEN CI	Conditioning (°C)	the set set	TEN JEN
S.3	Flammability test for the bottom of a fire enclose	sure and and and	N/A
S.3.1	Mounting of samples	at let let is	N/A
S.3.2	Test method and compliance	mer me m	N/A
INLIE .	Mounting of samples	LET JET STER	CLIFE MILE
	Wall thickness (mm)	Mr. An.	
S.4	Flammability classification of materials	ALL STEEL	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	Ite antie milit un	N/A
	Samples, material:	e at at a	y jek <u>a</u> ti
n.	Wall thickness (mm)	MULL MULL MULL	14, 14,
ALTER O	Conditioning (°C)	of let let	THE WITE
T 2	MECHANICAL STRENGTH TESTS	AUT. AUT. AUT.	N/A
T.1	General	CENT TENT STEET	N/A
T.2	Steady force test, 10 N:	by my my m	N/A
T.3	Steady force test, 30 N:	Et LIET SLIER ME	N/A
T.4	Steady force test, 100 N:	Mr. M. M.	N/A
T.5	Steady force test, 250 N	- THE STREET WIFE	N/A
T.6	Enclosure impact test	111 111 11	N/A
West an	Fall test	WITER WHITE WALLE	N/A
At A	Swing test	n t t	N/A
T.7	Drop test:	LIE WALTE WALL ON	N/A
T.8	Stress relief test:	at at at a	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	at at all	N/A



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	THE THE	C 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
ale.	14, 25,	The The Wall Wall of	The Ann
	Number of particles counted	· No such alass	N/A

	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	LIER WITE WHITE WALL	N/A
LIEK M	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 A A A A A A A A A A A A A A A A A A A		N/A
WALTER	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	were mer me m	N/A
V <sup>er</sup> N	DETERMINATION OF ACCESSIBLE PARTS	at alt alt affile	N/A
V.1	Accessible parts of equipment	Vice and any and	N/A
V.1.1	General	Et TET TET STEEL OF	N/A
V.1.2	Surfaces and openings tested with jointed test probes	The text of the te	N/A
V.1.3	Openings tested with straight unjointed test probes	MULL MULL MULL MILL	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	itet street	N/A
V.1.5	Slot openings tested with wedge probe	2 24 24	N/A
V.1.6	Terminals tested with rigid test wire	All IV DIE LIES	N/A
V.2	Accessible part criterion		N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
ang a	Clearance	WILL WILL MULT	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OOR ENCLOSURES	N/A
Υ.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	a at at at	N/A
Y.3	Resistance to corrosion	the many man and	N/A
Y.3	Resistance to corrosion	of the state of	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	Mus and any any	N/A
Y.3.2	Test apparatus	WITE WILL MALL MALL	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	at the tit tit	N/A
Y.3.4	Test procedure ::	LIE MILL MILL MILL OF	N/A
Y.3.5	Compliance	at the tell of	N/A
Y.4	Gaskets	mir mr mr m	N/A
Y.4.1	General	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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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M	THE THE STATE OF	TER OLITE MILL WALL	The All	
Y.4.2	Gasket tests	10 10	N/A	
Y.4.3	Tensile strength and elongation tests	A STER WITE WITE	N/A	
	Alternative test methods:	10, 10 to 14	N/A	
Y.4.4	Compression test	RITER WITE WALL IN	N/A	
Y.4.5	Oil resistance		N/A	
Y.4.6	Securing means	THE WILL MALL WAS	N/A	
Y.5	Protection of equipment within an outdoor encl	osure	N/A	
Y.5.1	General	MULL ME ME	N/A	
Y.5.2	Protection from moisture	at at the	N/A	
n a	Relevant tests of IEC 60529 or Y.5.3:	Weir Mer Mus	N/A	
Y.5.3	Water spray test	et let let.	√ N/A	
Y.5.4	Protection from plants and vermin	Wer Aug Me Con	N/A	
Y.5.5	Protection from excessive dust	Et TEX SEX SIS	N/A	
Y.5.5.1	General	Mr. M. M.	N/A	
Y.5.5.2	IP5X equipment	Y TEX LIER OLITER	N/A	
Y.5.5.3	IP6X equipment	111 111 111	N/A	
Y.6	Mechanical strength of enclosures	At MITTER	N/A	
Y.6.1	General		N/A	
Y.6.2	Impact test:	TE SITE WITH MY	N/A	



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MULL	me no in	IEC 62368-1	ITER INLIER WILLER	Tip Music Mark
Clause	Requirement – Test	Will Author All Au	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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	CENELEC COMMON MODIFICATIONS (EN)	Lies while while my	Р
WALTER O	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and and those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P.
NIT WITE	Add the following annexes:  Annex ZA (normative)Normative references to interr corresponding European publications	national publications with their	Р
	Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	signations for flexible cords	
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	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. $T$ $E = \int_{0}^{T} p(t)^{2} dt$	TEX MULTER WILLER WALTER WILL  AND TEX MULTER WALTER WILL  AND TEX TEX TEXT	N/A



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

Clause	rtequirement – rest	Result – Remark	Verdict
- In-		WILL WILL MILL M	701
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative to	THE STIFF OUT ON	" Will !
	a reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz	The Mr. M. M.	
	threshold of hearing in humans.	A ST ST ST	- July
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	LITER MITE WALL WALL	The The
	- Let the the strength with the	The state of	A
	the the the	at let let the	Note Will.
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	WILL MUE MY	21.
	$(E_0)$ dB	4	LIT LET
	m m m m m	TELL LIER SLIFE IN	LI MILL
	" Let the tile out only	The The The	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at the state of	* (E*
10 - 11		alite of the state of the	1000
3.3.19.5	digital signal level relative to full scale, dBFS	11. 14.	N/A
	levels reported in dBFS are always r.m.s. Full	at let tet tet	CITE MIL
	scale level, 0 dBFS, is the level of a dc-free 997-	it with the tile	211 22
	Hz sine wave whose undithered positive peak	4	J. J. J. J.
	value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	IN THE THEM STILL	NE WELL
	corresponding to negative digital full scale unused	The The Man is	
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels.	the state of	Clif Cliff
	Because the definition of full scale is based on a sine wave, the	LIEN SLIP WILL WAS	The .
	level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals	1/2, 1/4, 20, 20,	
All C	may reach +3,01 dBFS.	at the state of	- JEE .
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources		N/A
	Replace 10.6 of IEC 62368-1 with the following:		are are
10.6.1.1	Introduction	Not such equipment	N/A
The state of	Safeguard requirements for protection against	- 160 JE NICE 1	The William
	long-term exposure to excessive sound	The Mr. M. D.	
	pressurelevels from personal music players	1 1 1 1 1	et let
	closely coupled to the ear are specified below.	THE SLIFE OF THE WALL	11/2 2
	Requirements for earphones and headphones	ing in in	
	intended for use with personal music players are	at the fifth the	STORY N
	also covered.	LIE WITE WALL WALL	21/2 21/2
	A personal music player is a portable equipment	71, 75	4 0
	intended for use by an <b>ordinary person</b> , that:	It THE THE THE	alter aptiv
	The state of the state of the state of	Wer aller Aug a	11.
	- is designed to allow the user to listen to audio or		at let
	audiovisual content / material; and	TEN TEN TEN O	IL WALLE
	– uses a listening device, such as headphones or	The Mer My Mr.	4,0
	earphones that can be worn in or on or	* A A	+ 11+
	around the ears; and	THE LIFE SITE WITH	Janes William
	<ul> <li>has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is</li> </ul>	Le Mr. M. M.	
	intended for the user to walk around with while in	a to the left	18 S
	continuous use (for example, on a street, in a	THE SLIP WILL WALL	Mr. Mr.
	subway, at an airport, etc.).	211, 24, 25	1
	Tr. W. W. A.	L A A A	The STE
	EXAMPLES Portable CD players, MP3 audio players, mobile	" WILL WILL WILL W	211
	phones with MP3 type features, PDAs or similar equipment.	24. 22.	
			. the
	Personal music players shall comply with the	et et let o	EK CLIER



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20,	IEC 62368-1	is the the the	2. 4.
Clause	Requirement – Test	Result – Remark	Verdict
alle	The the the the	the Still Will all the	me me
	requirements of either 10.6.2 or 10.6.3.	70, 7	. * * * *
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	MILIER WALTER WALTER	MUTTE MUTTE
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	strek whitek whitek wh	et artet an
	Listening devices sold separately shall comply with the requirements of 10.6.6.	MUT MUT MI	18 18
	These requirements are valid for music or video mode only.	WALTER WALTE WALL	Mur Mur
	The requirements do not apply to:  – professional equipment;	MITER WAITER WAITER	INLIER MALTE.
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment.	TEX WHITEK WHITEK WH	itek witek w k itek i
	<ul> <li>hearing aid equipment and other devices for assistive listening;</li> <li>the following type of analogue personal music</li> </ul>	Multer Multer Multer	WILL WILEY
	players: • long distance radio receiver (for example, a	white white white	TEX TEX
	multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	The state of	et set
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	The white white white	while while
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>	uniter whiter whiter	MULTER MALTER
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	LIER WHITER WHITER WA	itek wither w
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	THE THE SLIES	White white
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	THE THE THE	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).  For intentional radiators, ICNIRP guidelines should	inite white white whi	iek un iek un
	be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is	MULL MUT, MUT,	MUTER MUTER



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IEC 62368-1				
Clause	Requirement – Test	WILL MULL MILL MILL	Result – Remark	Verdict

	drawn to EN 50360 and EN 50566.	70. 7	45
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2  10.6.2.1  LEE WALTER  MILITER WALTER  MILITER WALTER  MILITER WALTER  MARKET WALTER  MAR	General  This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.  For classifying the acoustic output <i>L</i> <sub>Aeq, T</sub> , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.  For music where the average sound pressure (long term <i>L</i> <sub>Aeq, T</sub> ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	Not such equipment	N/A N/A
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$ ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	Whitek whitek whitek w	MINITER WATER
10.6.2.2	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	INTER WALTER	THE WALTER WAS THE WAY



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

Clause	rtequirement – rest	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	And And Oly	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or 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	antifek whitek w	THE WALLEY WAS
MU	simulation noise" as described in EN 50332-1.		are an
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Whitek whitek whitek we	N/A
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General	Not such equipment	N/A
SEK WALTER	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	TE WALTER WALTER	WATER WATE
10.6.3.2	RS1 limits (new)	1/1, 1/1, 1/1,	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	INTER WHITE	TE WALTER ON THE WALTER
10.6.3.3	RS2 limits (new)	NITE WILLENNIE	N/A
White W	RS2 is a class 2 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player	MILER WILER WHILER WA	TEX WALTER



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Clause Poguiroment Test Poguit Pemerk			
Clause	Requirement – Test	Result – Remark	Verdict
WILLER WILL WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER	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.	JUNITER WHITER W	WINTER WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
10.6.4	Requirements for maximum sound exposure	Tie Muri Aur Mur	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	THE STEP AS	N/A
et white	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	The market market	
	NOTE 1 Volume control is not considered a safeguard.	White White White	Wer aver
	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.	untick whitek whitek whitek	Whitek Milek
	The elements of the <b>instructional safeguard</b> shall be as follows:	MALTER MALTER MALTER	INLIE VINLIER
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	Writes Miles Miles Miles	TEX MILEX
	wording  - element 4: "Do not listen at high volume levels for long periods." or equivalent wording	A MALIER MALIER	WALTE WALTE



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40,	IEC 62368-1	is the mer me	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict			
"ILE	THE THE THE	ALTER MITE MAIL	wer and			
MILTEK W	of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary person</b> and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	MULTER WHITER WHITER OF	INTER WITTER			
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	EX WHITEX WHITEX WHITEX  WHITEX WHITEX WHITEX  WHITEX WHITEX WHITEX	yntiek white white whitek			
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	TEX WATER WALTER WAL	EK MUTEK M			
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	* WHITEK WALTER WALTER	MULLER MULL			
WALTER V	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	lifet night might	INLIER WHITE			
10.6.5	Requirements for dose-based systems		N/A			
10.6.5.11	General requirements  Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.  The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	Not such equipment	N/A  N/A  N/A  N/A  N/A  N/A			
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	White whitek whitek whi	on the wo			
10.6.5.2	Dose-based warning and requirements	* LIFE OLIFE ONLIFE	N/A			
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an	THE STEEL STEEL	NITEK WALTER			



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21,	IEC 62368-1	LIL WILL WALL WALL	771. 12.
Clause	Requirement – Test	Result – Remark	Verdict
an.	asknowledgement. In case the user deep not	White Mary Mary	The An
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	1 4 4	LET LET
	decrease to compliance with class RS1.	LIER SLIE WITE	Will Mar
	a ex rex iter still with whi	24/2 24 24 24 2	
	The warning shall at least clearly indicate that	at at the	TER LITE
	listening above 100 % CSD leads to the risk of	THE MULL WALL MAY	2, 2,
<del>!</del>	hearing damage or loss.		. الحال ا
0.6.5.3	Exposure-based requirements	EX LIER ALTER MLTE	N/A
	With only dose-based requirements, cause and	24 24 24 24	
	effect could be far separated in time, defying the	at the set	TE SITE
	purpose of educating users about safe listening practice. In addition to dose-based requirements,	THE WALL WALL	21/2
	a PMP shall therefore also put a limit to the short-	3	14 18th
	term sound level a user can listen at.	TEK STEK STEK O	Lite Milit
	I to get get need only	ne me me	
	The exposure-based limiter (EL) shall	at at at a	Ell TELL
	automatically reduce the sound level not to exceed	LIE WILL MALL WALL	211, 21,
	100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	70.	
	The EL settling time (time from starting level	et the the still	THE WALL
	reduction to reaching target output) shall be 10 s	The Me in	70
	or faster.	the state of	TEX TEX
		alter with walk y	We are
	Test of EL functionality is conducted according to		* st
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its	LET STIFF OF	I'm All C
	listening device), the level integrated over 180 s	- 1 2n 2n	
	shall be 100 dB or lower. For equipment provided	* * * * * * * * * * * * * * * * * * *	the State of
	with a standardized connector, the unweighted	TER WILL MULT MULT	210 211
	level integrated over 180 s shall be no more than	20, 2,	11- 18
	150 mV for an analogue interface and no more	- TELL STEP STEP	WILL WILL
	than -10 dBFS for a digital interface.	The Mer Me	10 2
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX TEX TEX	ALTER MALTER
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	5 M. M. M.	
	listening device, and with the volume and sound	at the till	- J 6
	settings in the listening device (for example, built-	SOUTH WALL WALL	21/2
	in volume level control, additional sound features like equalization, etc.) set to the combination of	1	
	positions that maximize the measured acoustic	THE STIEF STEE	WELL SUPER
	output, the input voltage of the listening device	Mus Mr. M.	
	when playing the fixed "programme simulation	at at at	TEN STEE
	noise" as described in EN 50332-1 shall be ≥ 75	WITE WILL WALL MY	471
	mV.		,+ .J+
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	TEX STER WITER WITE	THE THE
0.6.6.0	and 27 mV or 100 dB and 150 mV.	20, 20, 20,	N1/A
0.6.6.2	Corded listening devices with digital input	t THE LITTER STIFE	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN	Mr. Mr. M.	2,
	50332-1, and with the volume and sound settings	at at at	TEN LIEN
	in the listening device (for example, built-in volume		21/2



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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
The same	White the state of	LITE MIT WILL	The The
onerek oner	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.	antitek antitek antitek	antiek whitek
10.6.6.3	Cordless listening devices		N/A
WILLER WILLER	In cordless mode,  — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and  — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and  — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	MULTER WHITE WHITE	MULTER WILLER  MILLER  MILLER
10.6.6.4	Measurement method	Will will with	N/A
NITEK AND	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Tat	LITER RETER OF
3	Modification to the whole document		P



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The way	Mr. Mar Aller in	IEC 62368-1	ITE NITE WALTER WA	The A	11-6
Clause	Requirement – Test	"Merical Pales Call	Result – Remark	Verdi	ct

نامان	list:	country note	:5 III IIIE 1816	rence docume	nt according	to the following	- 10
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
NUT.	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	11/2
TEX.	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	C.E.Y
¥.	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	+
-211	Table 13						2
WALT	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	J.
ALTEK	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	, cis
EX	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	CENT.
'an'	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	12
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
71	Y.4.5	Note					
CIV.	71, 2	4		JOY AV		No. 101. 12	
	Modification	to Clause 1					
ال كان		wing note: se of certain substanent is restricted v			MITER WIT	E WALTE WALT	
	Modification						



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IEC 62368-1					Tip Ministralia
	Clause	Requirement – Test	William Alberta Mir And	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
AND TEK WALTER  WALTER	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  In the superior of the	SUPLIFIE OF SUPLIFIES OF SUPLIF
6	providing protection in accordance with the rating of the wall socket outlet.  Modification to 5.4.2.3.2.4	ter alie with writer wa	N/A
	× 10 10	N. A. C.A. A. A. 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
	Modification to 10.5.1		N/A



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

Clause	rtequirement – rest	rtesuit – rtemark	Verdict
" Alex	all all the de	THE WALL WALL WALL	20.
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	united united united united	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	Liter white white white white	MUTER ON
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	INLIER WHITER WHITE WHITE.	Mr. M
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	TEK WITEK WITEK WITEK	TER WA
	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	MULTER W
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	the life white white	TEX WALL
LIEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	at the text of	L CLIEN
9	Modification to G.7.1		N/A
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to	MITER WALTER WALTER	N/A
	the IEC cord types are given in AnnexZD.		



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IEC 62368-1		TEL NITER WILLER	Tip Mury Mr.	
Clause	Requirement – Test	rite Murit Mr. M.	Result – Remark	Verdict

W.	and the state of the state with the state of	211.
, et	Add the following notes for the standards indicated:	Р
AUREN WALTER WALTER WALTER WALTER WALTER WALTER WALTER	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 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-31. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	JUNITER WHITE  JUNITER WHITE  JUNITER WHITE  JUNITER WHITE  JUNITER WHITE  JUNITER WHITE  JUNITER WHITE
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15  INLIER SUNLIFE  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF  SUNLIF	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 anetwork shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."  In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A STANDARD
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 SEEL WHITE WHITE WHITE



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	io.: Will ElBeccorocoltil	1 age 01 01 01		. T.	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
" The		IEC 62368-1			21/2
Clause	Requirement – Test	Nr. M. M.	Result – Remark	٠ ,	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 WHITEK WHITEK WHITEK	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.	WILL MULES WILLES WAS	IEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	WILLER MUTTER MUTTER MUTTER	- JALTEK V
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	un'il un' LIFX unlif
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	TELY STEEL STEEL SOLE	EX WILLEX



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	IEC 62368-1	r. The M. M.	
Clause	Requirement – Test	Result – Remark	Verdict
apr.	M. M. T. T. T.	ET OLIV ONLY MALE	The The
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STIFF STIFF	NITEK WILTER
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	strek whitek muriek mur	IEK WALTER W
EK WALTER	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITEK WHITE	Anni Est uni
5.5.2.1	Norway	t let litt liter	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mr.	IN TEX
ines in	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILLER WHITE WHITE WA	er ter
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	of street souther souther	WALTEX WALT
	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 Multer Multer A	WILLER MULTER
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuseswith higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification:	Whitek whitek whitek	white white
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WALTER WALTER W	MULT.
5.6.4.2.1	Ireland and United Kingdom	at at let a	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 A, this being the largest rating of fuse used in the	it white white white	Whit Ex Whit
- 25	mains plug.	1 1 15 15	(4)
5.6.4.2.1	France After the indent for pluggable equipment type A,	MULL MULL MULL	N/A
	the following is added:  – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	ALTER WALTER WALTER WA	iter unlife a
5.6.5.1	To the second paragraph the following is added:	THE MULT WALL WALL	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 mm²to 1,5 mm²in cross-sectional area.	MUNITER MUTER MUTER	WALTER WALTE



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Lange August	Mr. Mer All Mr.	IEC 62368-1	TEX MITEX WILLER WIL	The And
Clause	Requirement – Test	Aller Aller An	Result – Remark	Verdict

5.6.8	Norway	24 24	N/A
	To the end of the subclause the following is added: 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.	united white white white w	MULIE MITER MULIE
5.7.6	Denmark	Mr. M. M. 20.	N/A
MILIER.	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.	Martiek Martiek Martiek Martiek	MULTER ON
5.7.6.2	Denmark	TEX STEEL WIFE WITE W	N/A
ek volitek	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.	antiek unitek unitek unit	ek vinitek
5.7.7.1	Norway and Sweden	Not such system.	N/A
MALIER ON THE	To the end of the subclause the following is added:  The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building.  Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.  It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which	THE WHITE WH	NITE OF STEEL OF STEE
	may be provided by a retailer, for example.	Life while while while w	201
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	A THE MILITER WHITE	ek white whitek
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILE MUTER MUTER MUTER	aurren au
LIEK WALTE	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, see EN 60728-11)"	THE WALTER WALTER WALTER WALTER	TEX WALT
20, 2	NOTE In Norway, due to regulation for CATV-installations, and	aver My My Mr.	20. 2



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20,	IEC 62368-1	is the me and a	,
Clause	Requirement – Test	Result – Remark	Verdict
alle 1	All the off	The meli will win	1/1/2
	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.	WILLER WILLER WHILE	MULTEX.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	tiet nifet whilet whilet	WALTEK WI
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	Et unifet unifet unifet unifet unif	E WALTER
nt wn fex white whitex	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."	INTER WHITE WHITE WHITEK	on itek ooni
3.5.4.2.3	United Kingdom  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the	No external circuits.	N/A
EL WALTER	requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	TE WILLE WILLER WILLER	Will MUT
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.47 LEK WINTER	The following is applicable:  To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	mains  White the property of t	Whitek whitek
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 JUNITER WHITEK WHITEK	NIEK WAL
	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 whitek wh	ANUTEX A



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	IEC 62368-1	211, 711, 72,	
Clause	Requirement – Test	Result – Remark	Verdict
aller	The The The The	the city will show the	411.
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	the state of the	y JEY
	N W W JEE	LITER RETER MALL WALL	Mr.
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase	m in it get get	TEX
	equipment is provided with a supply cord with a	LIER RUTE MILIE WALLE	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	plug, this plug shall be in accordance with the	2 M 2 2 2	4
	standard sheets DK 6-1a in DS 60884-2-D1 or EN	EX TEX LIEX SUTER OF	we will
	60309-2.	Mr. Mr. M.	
	Mains socket outlets intended for providing power	- LEK TEK STEK AS	E CLIE
	to Class II apparatus with a rated current of 2,5 A	They were were all	-2.7
	shall be in accordance DS 60884-2-D1:2011		- 154
	standard sheet DKA 1-4a.	ALTER MITER MALTE MALTE	Mer.
	Other current rating socket outlets shall be in	an an an	24
	compliance with Standard Sheet DKA 1-3a	THE THE THE WITH	اله سنتاس
	or DKA 1-1c.	and my my	
	Mains socket-outlets with earth shall be in	at left telt till ti	ITER INLI
	compliance with DS 60884-2-D1:2011	mer me m	10.
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	TEX STEX SUITER WITH	MALTER
	Justification:	Were Mrs. Mrs. Mrs.	, L
	Heavy Current Regulations, Section 6c	LIFE STIFE STIFE	MITE
G.4.2	United Kingdom	Not directly connected to the	N/A
TEN CLIFE	To the end of the subclause the following is	mains	NIE W
	added:	in min mer mer a	71.
	The plug part of direct plug-in equipment shall be	- TEK LITEK ALITEK AND	ie Muri
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,	The sign in in	
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17,	A ST ST SE	- JIEN
	except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is	WITE WILL MULL MULL	Che.
	replaced by an Insulated Shutter Opening Device	4	11
	(ISOD), the requirements of clauses 22.2 and 23	TEX ITEX STEE OUTE	المد المالي
	also apply.	in my my	
G.7.1	United Kingdom	IL THE THE STEEL OF	N/A
	To the first paragraph the following is added:	Any Any Any	
	Equipment which is fitted with a flexible cable or	let tet tet te	E DLIE
	cord and is designed to be connected to a mains	MULT AND AND AND	20,
	socket conforming to BS 1363 by means of that	the state of	TEN
	flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and	LIER NITER MITE WALL	ALC:
	Sockets etc. (Safety) Regulations 1994, Statutory	16. 24. 24. 2	-4-
	Instrument 1994 No. 1768, unless exempted by	at let let iter	NITE OF
	those regulations.	in wir were and a	11 20
	areas regulations.		
	NOTE "Standard plug" is defined in SI 1768:1994 and		75th 15



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The same	Mr. Mr. All.	IEC 62368-1	LIET WALTER WALTER WALT	Mr. Mr.
Clause	Requirement – Test	WILL MULL MILL MILL	Result – Remark	Verdict

G.7.1	Ireland	711, 24,	N/A
Mulier W	To the first paragraph the following is added:	whilek whilek whilek whilek	MALTER
	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	STEK MUTER MUTER MUTER	
- LEF	which is equivalent to the relevant Irish Standard		- JE
G.7.2	Ireland and United Kingdom	THE MALL WALL WALL	N/A
	To the first paragraph the following is added:	The state of the	
	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.	INLITER WHITE WHITE WHITE	
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)	is my my my my	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.	MULTER WHITER WHITER WHITER	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since	TE WHITE WHITE WA	
	2002-07-01, implementing the European Directive 96/29/EURATOM.	MULTER WALTER WHITE WALL	
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-	THE LIFE WITH MILE	



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IEC 62368-1				
Clause	Requirement – Test	with the min me	Result – Remark	Verdict

Type of flexible cord	Code de	signations
	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	5	5>
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



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U. 21/2	M. M. M.	IEC 62368-1	VI AVE AVE
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy sourc	ces		٠ ٠	P
Supply Voltage	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>	Class
et et	TEK STEK N	Normal	5.0VDC	2, -2,	SS	DC	ES1
5VDC Input circuit	Input circuit	Abnormal	See .	LIER TUE	1677 - 1	Vice Aug	Mer
	N. White watte	Single fault – SC/OC	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	et set	LIEK K	EX -IEX	MALTEK
<i>A</i>	EF TEK LIEK	Normal	4.2VDC	1/1, - 1/1,	SS	DC	ES1
4.2VDC	Battery	Abnormal	CENT - CENT	1112 MI	TILLIE	100 TO	10 m
LIEK MALIE	MALTER WALTER W	Single fault – SC/OC	7E.F	TEN TEN	-UEK	INLIER MILI	EX 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 short circuit; OC= open circuit

SC=

5.4.1.8 TABLE: Workin	g voltage measu	rement	, ,	The set	N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comment	is
E-write with much in	L 2111	at tit a	et Jet	LIER MITER WILLER	Will.

Supplementary information:

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Method		: ISO 306 / B50	unite unit —			
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)			
- Mir Aur Mr. Mr.	THE ART S	et aliet wife on	Lie will - will			
Supplementary information:						
WE ALL ALL AND	The state of the	THE LIFE ALL	The sale of			

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



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IEC 62368-1							
Clause	Requirement – Test	Result – Remark Verdic					
de	The The Table	EX THE LIFE METERINE METERINE					
- 4	THE THE TIES WITH MANY	M. M. M. T. T. W. W. T. W. W. T. W. W. T. W. W. T. W.					
Suppleme	ntary information:						
*	the the little still spring with	The The Late of th					

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)
- with white will work	27/2	411	/	<del>-</del> e+	A COL	JEH 20	Er Tile	MILLE
Supplementary information:								
Supplementary information:	nahi	n.		,		A- 10	F 10	

1) 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 insulation
 N/A

 Distance through insulation (DTI) at/of
 Peak voltage (V)
 Insulation\*
 Required DTI (mm)
 Measured DTI (mm)

 - - - - - 

 Supplementary information:

 \*See also sub-clause 5.4.4.9

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)	
WITE WALL WALL	7115		# .d+	-18th 17th	- NITER IN	The Will	
Supplementary information:							

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 ITEN STIER INTE	- write white	Vr. 170, 1
Basic/supplementary:	WALLE WALL WALL THE WALL		CENT STEP N
Tr. M. M.	A TEX TEX NITER WITE	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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- au		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.5.2.2	.5.2.2 TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class	
in in -	2/1, 1		Normal	IFE WALLE	hri Mar.	74 -74 -	
WALTEK -	INLIEK VIN	TE WALLE WALL	Single fault: SC/ OC	t wet w	iet Tet	LIEK WALIEK	

Supplementary information:

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

5.6.6 TABLE: Resistance of protective conductors and terminations N/A								
Location	Test current Duration (A) (min)		Voltage drop (V)	Resistance (Ω)				
whi he we we	, I A	* 15E* 15E*	RLIFE WILLE WI	17, <sup>18</sup> 77, 1				
Supplementary information:								
E. AL. III A A	L. L.	All All	Colife Will	intr in				

5.7.4	TABLI	LE: Unearthed accessible parts					
Location		Operating and	Supply	ſ	Parameters		ES class
		fault conditions Volta	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	
L/N to secondary terminals		Normal	m m		- 15 AN		LUE .
		Abnormal: overload	WALTER WALTE	MULLE MULLE	Mur Mur.	All .	264 2
		Single fault: SC/ OC	LIEK MILIEK	WALTER WALTER	NUTE OUT	1000 00	~
Supplemen	itary info	rmation:					
SC= short of	circuit: 0	C= open circuit	EX STATE OF	50 Mrs. 211	. " "		

5.7.5	TABLE: Earthed acces	sible conductive part					
Supply vo	Itage (V)	-24, 24, 2,	* *	CENT CENT	_		
Phase(s)	hase(s) [] Single Phase; [] Three Phase: [] Delta						
Power Dis	er Distribution System [] TN []TT []IT						
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commer	it		
- JALIA	The Mr. Mr.	A-A-A	- 11º- 11º	CLIFE SHALL	WILL		
Suppleme	entary Information:						



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200	74, 24, 2,	IEC 62368-1	LIER WITE WALL W	in my min
Clause	Requirement – Test	Mar. M. M.	Result – Remark	Verdict

5.8 TABLE: Backfeed safeguard in battery backed up supplies								
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
rtile mili	Min	Mrs. M.	4, - 4,	76 <sup>th</sup> .5	et out	LIER - NITE	White My	
Supplemen	tary infor	mation:						
The Market of the Control of the Con	arr.	ar ar	10 0	.+ .c.\	- 4 <sup>th</sup> 5	ET JE	VIL. TUR.	

6.2.2	6.2.2 TABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class		
5V Input ci	rcuit USB	ITE WALTER WALL	Aller Alle	- 184 - 191	TEK - TEK	PS2 (declared)		
Battery	/	3.287	0.63	2.07	3S	PS1		

#### Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	TABLE: Determ	ination of Arcing PIS	in the sale	711	N/A		
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No		
Tet Jille			<u> </u>	- C	LITE STE		
Supplementary information:							
t The	NITE MITE WA	in mile in		the set set	TEN STEE		

6.2.3.2	TABLE: Det	LE: Determination of resistive PIS							
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
All primary circuits/co		and the street	WALTER WHITER WAL	Yes (declaration)					
Suppleme	ntary informatio	n:							

All circuits are considered as resistive PIS;

A combination of If a separate

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

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 pr	essure lamp	NITER WITER WA	in with mir	2/1	N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		ticle found nd 1 m Yes / No
- RLITER OF	the mer mer	-2/1	The set set	TEL TEL	Life	المى التلاس



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Ne.	41, 21, 21,	IEC 62368-1	LIER INLIER WALLE W	in Mr. Mi
Clause	Requirement – Test	ris Murs And An	Result – Remark	Verdict

Supplementary information:										
me me m	7	A	at .	Jet .	CLER 1	NIE.	Will !	Wille	Mr.	a

9.6	TABLE	E: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply voltage	ge (V).				Mer	1/2 11	40	7,1	_
Max. transmi	it powe	er of transn	nitter (W)		TEX	atter at	IEK MITE	WILLE	_
			eiver and contact		eiver and contact		ver and at of 2 mm		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									
Supply voltage (V)	5V (Fully dischargin g battery and Max available power speaker and LED with Maximum brightness)	5V (Fully dischargin g battery and Max available power speaker and LED with Maximum brightness)	Battery (Max available power speaker and LED with Maximu m brightnes s)	Battery (Max availabl e power speake r and LED with Maximu m brightn ess)					
Ambient temperature during test $T_{amb}$ (°C):	25.0	45.0	25.0	45.0	_				
Maximum measured temperature <i>T</i> of part/at:		Allowed T <sub>max</sub> (°C)							
IC the let the mi	59.4	79.4	47.3	67.3	130				
Battery body	32.8	52.8	35.6	55.6	The Walter A				
Battery wire	39.1	59.1	42.1	62.1	80				
Speaker wire	35.2	55.2	44.8	64.8	80				
Terminal	33.5	53.5	32.2	52.2	Ref.				
LED screen	33.2	NITER IN	36.3	mr.	48				
Button	32.4	20, - 2,	33.2	#	48				
Enclosure outside	31.9	NITER -WILLE	33.8	W 91	48				
Ambient	25.0	45.0	25.0	45.0	Eth Tille				



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Victor Murille	Mr. Mr. M. M.	IEC 62368-1	TEX MITEX WILLER WIT	Tip Mail Mari
Clause	Requirement – Test	in the the	Result – Remark	Verdict

Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
T	et - Let	Still Still	(1 <sup>EE</sup> - 10)		4	n -	, 1

#### Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 45°C.

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

B.2.5	2.5 TABLE: Input test				P			
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	4	0.164	1 (Referenc e)	WIN STEP	aniiek (	yn <sup>lifeld</sup> (	NALTER V	Powered by 5VDC with empty battery (at battery charging mode) Max available power speaker and LED with Maximum brightness.
4.2VDC	all <sup>LT</sup>	0.180	MULTER W	SLIFE WI	ite on	A THE T	14 - 11/16	(Discharging mode with fully charged battery) Max available power speaker and LED with Maximum brightness.

#### Supplementary information:

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

TABLE: Abnor	mal operatin	g and fau	It conditi	ion tes	ts		H Park
mperature T <sub>amb</sub> (°	°C)				See b	elow	_
ce for EUT: Man	ufacturer, mo	del/type, d	output rati	ing:	t	At Let JE	_
nt Condition	Supply voltage (V)	Test time	Fuse no.			Observation	า
SC	4.2	10min	* WALLEY	WILL	-71L	Speaker no voice, no hazard.	damage,no
y 5VDC with emp	oty battery(at l	battery ch	arging mo	ode)		EX OLIER WILLER WA	in whi
3 SC	5VDC	10mins	MUT 1	1. F	JU.	Unit shut down, no da hazard.	maged, No
4 SC	5VDC	10mins	VITE - W	<u> </u>	ار در	Unit shut down, no da hazard.	maged, No
y Li-ion Battery (I	Discharging m	node with	fully char	ged bat	tery)	WILL MUT MUT	111 111
SC	4.2VDC	10min		15	<u>-</u>	Unit normal working, r	10 FER WALT
	mperature T <sub>amb</sub> (stree for EUT: Mannet Condition  SC  y 5VDC with empty SS  SC  y Li-ion Battery (limits)	mperature T <sub>amb</sub> (°C) rce for EUT: Manufacturer, mont	mperature T <sub>amb</sub> (°C)  rce for EUT: Manufacturer, model/type, of the Condition Supply voltage (V) Test time  SC 4.2 10min  y 5VDC with empty battery(at battery charges and selections of the SC 5VDC 10mins 10mins of the SC 5VDC 10mins 10mins of the SC 5VDC 10m	mperature T <sub>amb</sub> (°C)	mperature T <sub>amb</sub> (°C)	roce for EUT: Manufacturer, model/type, output rating:  Int	mperature T <sub>amb</sub> (°C): See below rce for EUT: Manufacturer, model/type, output rating:  nt Condition Supply Test Fuse round current (A)  SC 4.2 10min Speaker no voice, no hazard.  y 5VDC with empty battery(at battery charging mode)  SC 5VDC 10mins Unit shut down, no dai hazard.  y Li-ion Battery (Discharging mode with fully charged battery)  SC 4.2VDC 10mins Unit normal working, round in the control of

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

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



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The Miles	Mr. Mr. All	IEC 62368-1	IEC 62368-1			
Clause	Requirement – Test	rite Murit Mr. M.	Result – Remark	Verdict		

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

is it possible	to install the	battery in a re	vers	e polarity	position?.	:	21/2	2,1	- "	_
					C	Charg	ging			
Equipment S	Specification		Vo	ltage (V)					Current (A)	
Equipment	ppecification	FER STER	NLTE'	5 MALTER	MALTEX	تامان	1 (Reference)			
					Battery	y spe	cifica	tion		
		Non-recharge	able	batteries			Rechargeable batteries			
		Discharging	Unintentional		(	Char	ging		Discharging	Reverse
Manufact	urer/type	current (A)		narging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)
BLUECHAO	/LC502020	Jt Jt	4	کنی - <u>+ن</u>	4.2	ıu.	0	.18	0.18	1,
Note: The te	sts of M.3.2 a	re applicable o	nly v	vhen abov	e appropr	iate d	data is	s not ava	nilable.	
Specified ba	ttery tempera	ature (°C)				:		10	0-50	7
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltage (V)	Obse	ervation
Battery	Normal	Charge		7h	IEK WILT	0.	168	0	Unit norma No damag hazard.	
ang. an	y	- AV		W. C.				27		
Battery	B- to P- SC	Charge	JUNE!	7h	MATTER	0.	168	0	Unit norma No damag hazard.	
Mur. M		Charge Discharge	aint TEX	7h 7h	WALTER OF	ani	168 160	0	No damag	ed, no

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE=

no explosion; NF= no emission of flame or expulsion of molten metal.



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The Miles	Mr. Mr. All	IEC 62368-1	IEC 62368-1			
Clause	Requirement – Test	rite Murit Mr. M.	Result – Remark	Verdict		

M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	ont	aining a se	econdary lithium	P
Maximum	specified (	charging voltag	je (V)		l:	4.2	20, 20,	_
Maximum	specified o	charging curre	nt (A)		:	0.18	NIE MIE	_
Highest s	pecified ch	arging tempera	ature (°C)	31	1/2	50		
Lowest sp	ecified cha	arging tempera	ture (°C)			0 550	WITE WALL ON	
Battery	,,	Operating		Measuremen	nt		Observation	on
manufacti	urer/type	and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)		
Lowest sp	ecified cha	rging temperat	ure: 0°C	et et		CIER SIF	RLIE WALTER	Write 1
BLUECHA /LC50202		Normal	4.2	nt white	tei	Battery mperature: 0°C	The battery charging stop charging	ng circuit
BLUECH/ /LC50202		B- to P- SC	4.2	and the year	tei	Battery mperature: 0°C	The battery charging circustop charging	
Highest s	pecified cha	arging tempera	ture: 50°C	A 18	٠	JEK J	IFF RITER WITE	MILITER
BLUECH/ /LC50202	107	Normal	4.20	THE LIE	tei	Battery mperature: 50°C	The battery chargir stop charging	ng circuit
BLUECH/ /LC50202		B- to P- SC	4.20	O Lifet	tei	Battery mperature: 50°C	The battery charging stop charging	g circuit

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

	TABLE: Circuits intended for interconnection with building wiring (LPS)  N/A							
Condition	11 ()()	Time (a)	I <sub>sc</sub> (	A)	S (VA)			
Condition	U <sub>0c</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit		
of still still	Write - Wer	'n <u>'</u> '	n 22	- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,-	J J	x -14		
y Information:								
	Condition   / Information:  uit, OC = open circuit	/ Information:	/ Information:	Condition         U <sub>oc</sub> (V)         Time (s)         Meas.                 y Information:	Condition U <sub>oc</sub> (V) Time (s) Meas. Limit y Information:	Condition         U <sub>oc</sub> (V)         Time (s)         Meas.         Limit         Meas.                   y Information:		

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est	″.k 10 <sub>2</sub> − 2	LEK LEK	TEK.	LIFE MI	*** ***	N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)		Observa	ation	
- 18th - 10	EK TIER	anti" anti	400	n,	n .	J	- /#	16th	LIEFE .
Supplementa	ary informati	on:							



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

T.6, T.9	TABLE: Imp	act test			N/A
Location/Pa	art Material	Thickness (mm)	Height (mm)	Observation	
TEN NETER	WILL WALL	mr -mr		T It IS IS IS	TITE WIT
Supplemen	tary informatio	n:			
- LITE	NITE WALL	MUL MU M		at at the set	ALIEN MILL

T.7	ABLE: Drop	test	-41	· .	J+	,et	1et	JEK .	N/A
Location/Part	Material	Thickness (mm)	Height (mm)			Obse	rvation		
r. 70, 1	n -n	+	All S		er wi	WILL	WILL	. Mr.	n,
Supplementary	/ information:								
211. 211.		* *	TEX SITE	WITE.	MITTE	While	alle.	m.	211

T.8 T.	ABLE: Stress	relief test	+ JEX	aller or	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
JER JATE N	<u> </u>	2 - L		£	- The State Mile Mile Mile
Supplementary	information:				
in the wall	Mr. C	me me	+ 2+	ek .	THE STEE ALTER MITE MATE

X TABLE: Altern	ative method for determini	ng minimum clearances	s distances N/A
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
F. 24. 24. 2.	A CH CET I	ITER INITE - WALTE WA	The who we
Supplementary information:			
711. 211. 2	1 A AB A	ALTE WALL WALL	me me



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Clause	Requirement – Test	WILL MUTE MIN MIN	Result – Remark	Verdic	t	

4.1.2	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Enclosure	LG Chem Huizhou Petrochemical Co Ltd	HP171	HB, 70°C, min. thickness:1.5mm	UL 94	UL E476284
Internal wire	Various	Various	Min. 28AWG, VW-1, 80°C	UL 758	UL
Battery	BLUECHAO	LC 502020	3.7V, 180mAh	IEC 62133- 2:2017 EN 62133- 2:2017/A11:202	Test report no.: TCT221219 B093
Screen	white white whi	HY201074A	- WITER WITER WAITE	EN IEC 62368-1	Test with appliance
PCB	Sui Ning Rui Jie Xing Technology Co., LTD	RJX-D (ASP 1)	V-0, 130°C	UL 94, UL 796	UL E493761

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

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# **Photo Documentation**







Photo 1 Overall view



Photo 2 Overall view

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# **Photo Documentation**

Reference No.: WTF24D03067595R1Y





Photo 3 Internal view



Photo 4 Internal view

### Page 3 of 4

# **Photo Documentation**

Reference No.: WTF24D03067595R1Y



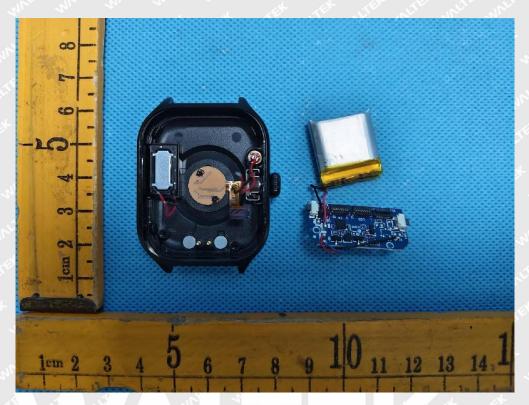


Photo 5 Internal view

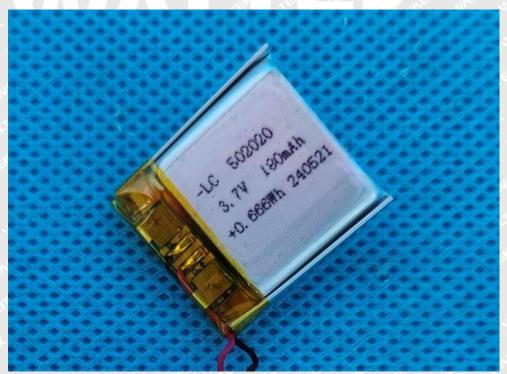


Photo 6 Battery



# **Photo Documentation**

Reference No.: WTF24D03067595R1Y



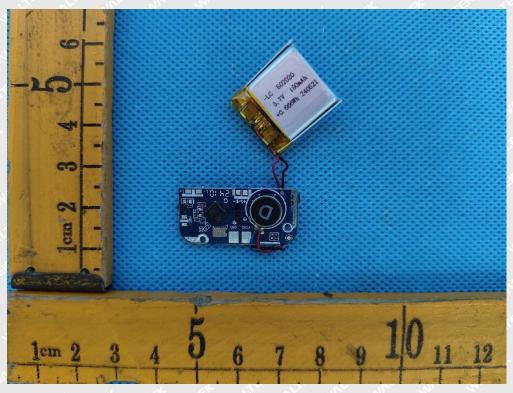


Photo 7 PCB view

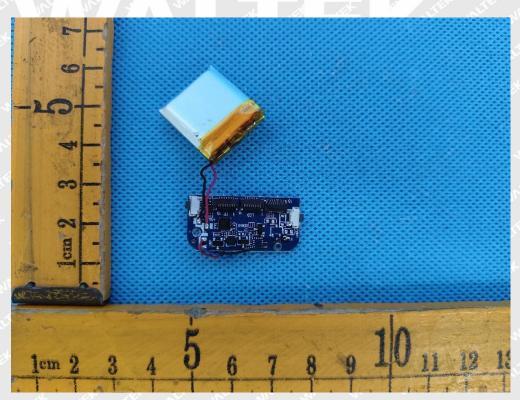


Photo 8 PCB view

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

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