



# **TEST REPORT**

Reference No.	N.	WTF23D09200187Y
Applicant	Å.	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:m	116266
Address	: _	2- aret wiret would would would work with wo
Product	m	Recycled ABS TWS earbuds
Model(s)	J. Feit	MO6252
Total pages	ż	67 pages and 5 pages of photo.
Standards		EN IEC 62368-1: 2020+A11: 2020 Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample	Jun.	2023-09-12
Date of Test	N. E.Y.E.Y	2023-09-12 to 2023-09-28
Date of Issue	÷t	2023-09-28
Test Result	: .	Pass Will a set set with which

Remarks:

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

#### Prepared By: Waltek Testing Group Co., Ltd. Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China Tel:+86-769-2267 6998 Fax:+86-769-2267 6828

Compiled by:

Soapthe

Soap Hu / Project Engineer

Approved by:

Almon Zhao / Designated Reviewer

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Reference No.: WTF23D09200187Y

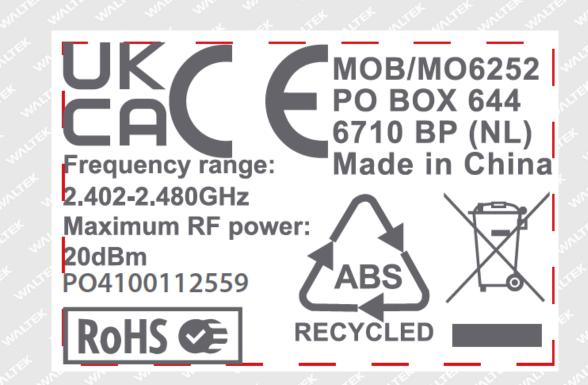
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Test item description	Recycled ABS TWS earbuds		
Trademark	MOB		
Model and/or type reference	MO6252		
Rating(s):	Input: 5VDC, 200mA Earbud battery: 3.7V, 40mAh, 0.148WH Charging box battery: 3.7V, 300mAh, 1.11Wh		
Remark:	15 15	WITE WITE WATE WATE WATE WATE WATE WATE	
Whether parts of tests for the product h	ave been sub	contracted to other labs:	
Yes X	A. A.		
If Yes, list the related test items and lab Test items:	o information:		
Lab information:			
Summary of testing:	Jule - Alle	and the set set set a	
Tests performed (name of test and te	est clause):	Testing location:	
- EN IEC 62368-1: 2020+A11: 2020	North State	No. 77, Houjie Section, Guantai Road,	
The submitted samples were found to o		Houjie Town, Dongguan City, Guangdong, China	
the requirements of above specification Summary of compliance with Nation EU Group Differences		s (List of countries addressed):	
the requirements of above specification Summary of compliance with Nation	al Differences	et water water water water water water	
<ul> <li>the requirements of above specification</li> <li>Summary of compliance with Nation</li> <li>EU Group Differences</li> <li>The product fulfils the requirements</li> <li>Use of uncertainty of measurement f</li> <li>No decision rule is specified by th applicable limit according to the spec without applying the measurement ur "accuracy method").</li> <li>Other: (to be specified, for examp</li> </ul>	al Differences of EN IEC 623 for decisions e IEC standar sification in that neertainty ("sir	368-1:2020+A11:2020.	
the requirements of above specification Summary of compliance with Nation EU Group Differences ☑ The product fulfils the requirements Use of uncertainty of measurement f ☑ No decision rule is specified by th applicable limit according to the spec without applying the measurement ur "accuracy method").	al Differences of EN IEC 623 for decisions e IEC standar sification in that neertainty ("sir	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> rd, when comparing the measurement result with the at standard. The decisions on conformity are made nple acceptance" decision rule, previously known as	

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Copy of marking plate:



#### Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which donot 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.

TEST ITEM PARTICULARS:	n' when we we start
Product group	🛛 end product 🛛 🗌 built-in component
Classification of use by:	<ul> <li>Ordinary person</li> <li>Instructed person</li> <li>Skilled person</li> </ul>
Supply Connection:	<ul> <li>AC mains</li> <li>DC mains</li> <li>DC mains</li> <li>DC mains</li> <li>DC mains</li> </ul>
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 in other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	UK: 13 A; Others: 16 A; Location: building equipment
Equipment mobility:	<ul> <li>movable</li> <li>hand-held</li> <li>transportable</li> <li>direct plug-in</li> <li>stationary</li> <li>for building-in</li> <li>wall/ceiling-mounted</li> <li>SRME/rack-mounted</li> <li>other:</li> </ul>
Over voltage category (OVC):	□ OVC I     □ OVC II     □ OVC III       □ OVC IV     ☑ other: not Mains connected
Class of equipment:	□ Class I □ Class II ☑ Class II □ Class II
Access location:	N/A     □ restricted access area       □ outdoor location     □
Pollution degree (PD)	$\square$ PD 1 $\boxtimes$ PD 2 $\square$ PD 3
Manufacturer's specified maxium operating ambient :	25°C 🔲 Outdoor: minimum°C
IP protection class	
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)	⊠ <mark>0.037kg</mark>

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POSSIBLE TEST CASE VERDICTS:	which which we want the state
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	sol which is the set
Date of receipt of test item:	2023-01-04
Date (s) of performance of tests	2023-01-04 to 2023-02-03
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#### **GENERAL REMARKS:**

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a  $\Box$  comma /  $\boxtimes$  point is used as the decimal separator.

**GENERAL PRODUCT INFORMATION:** 

#### **Product Description**

- 1. The equipment with model MO6252 is Recycled ABS TWS earbuds.
- 2. It is powered by Micro USB port conformed to LPS or powered by rechargeable Li-ion Battery.
- 3. The maximum operating temperature is 25°C.

#### **Model Differences**

N/A

Additional application considerations – (Considerations used to test a component or subassembly) N/A 

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





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		ENERGY	SOURCE I	DIAGRAM		
Indicate which e	nergy sources are inc	cluded in the	e energy sou	ırce diagran	n. Insert diagram below	
at at	Tet Set a	Jet Mile	where a	up the	w w t	1. to
				<u> </u>		
	See details in OVE	RVIEW OF	ENERGY S	OURCES A	ND SAFEGUARDS	



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in m	with the state of the state	IEC 62368-1	inter intit white whi	Mar Mar
Clause	Requirement – Test	mur m m	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P +
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	. Р
4.1.2	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	ALL P M
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests	the state state of	N/A
4.4.3.3	Drop tests	L. M. M. M.	N/A
4.4.3.4	Impact tests	of the state of the south	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
in whit	Glass impact test (1J)	ster outer only white	N/A
* st	Push/pull test (10 N)	a the state	N/A
4.4.3.8	Thermoplastic material tests	VIEW WATER WATE WATE WATE	N/A
4.4.3.9	Air comprising a safeguard	a at at a	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	er unite white white white	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	atter mare waite water of	∑ P∿
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P P F
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P



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Clause	Requirement – Test	Result – Remark	Verdict
What is	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	N/A
Life whi	Fix conductors not to defeat a safeguard	tet tet atter atter atter	N/A S
1 1	Compliance is checked by test	the she she a	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)	t stift out and would wo	N/A
4.8	Equipment containing coin/button cell batteries	5	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	ster strer strer spire	N/A
4.8.3	Battery compartment door/cover construction	- The Annual Contract	N/A
we have	Open torque test	et with mith which w	N/A
4.8.4.2	Stress relief test	the state	N/A
4.8.4.3	Battery replacement test	with white white white	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test	anti unt	N/A <sup>SN</sup>
4.8.4.6	Crush test		N/A
4.8.5	Compliance	TE WALT WAL WAL	N/A
t Set	30N force test with test probe	e at at at	N/A
- an-	20N force test with test hook	white white white wh	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р
4.10	Component requirements	where whe was we	N/A
4.10.1	Disconnect Device	let let set set	N/A
4.10.2	Switches and relays	in min min m	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	white white white and	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	N <sup>C</sup> P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	when we we we	N/A
5.3	Protection against electrical energy sources	Tet ster out and	_s€`P



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20	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
5.3.1	General Requirements for accessible parts to	white white white white	P		
0.0.1	ordinary, instructed and skilled persons	the state state and	et intret		
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	mer mer mer m	N/A		
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	MITER WALTER WALTER WALTER	N/A		
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	Р		
WALL W	Accessibility to outdoor equipment bare parts	t steet while while wh	N/A		
5.3.2.2	Contact requirements	Mr. Mr. W.	N/A		
mer m	Test with test probe from Annex V	wiret mile white white			
5.3.2.2 a)	Air gap – electric strength test potential (V)	in it it it	N/A		
5.3.2.2 b)	Air gap – distance (mm)	with mark while while	N/A		
5.3.2.3	Compliance	e at at at	N/A		
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A		
5.4	Insulation materials and requirements	at at at a	P		
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A		
5.4.1.3	Material is non-hygroscopic	at a set of	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	TE WALT WALL WALL	N/A		
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	t suret muret whitet wh	N/A		
5.4.1.5.3	Thermal cycling test	in the state	N/A		
5.4.1.6	Insulation in transformers with varying dimensions	white white white white	√ <sup>™</sup> N/A		
5.4.1.7	Insulation in circuits generating starting pulses	a at at at	N/A		
5.4.1.8	Determination of working voltage	NUTER WALTE WALL WAL	N/A		
5.4.1.9	Insulating surfaces	h at at at	N/A		
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	white white white where	N/A		
5.4.1.10.2	Vicat test	white white white wh	N/A		
5.4.1.10.3	Ball pressure test	in the de de	N/A		
5.4.2	Clearances	white white white white	N/A		
5.4.2.1	General requirements	a at at at	N/A		
t st	Clearances in circuits connected to AC Mains, Alternative method	The work work work	N/A		
5.4.2.2	Procedure 1 for determining clearance	outer antife antife and the add	N/A		
1th	Temporary overvoltage	in the state	é —		
5.4.2.3	Procedure 2 for determining clearance	stree where water water	N/A		



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Clause	IEC 62368-1	Result – Remark	Verdict
	Requirement – Test	Result – Remark	verdict
5.4.2.3.2.2	a.c. mains transient voltage	Mr. W. Ch. W.	
5.4.2.3.2.3	d.c. mains transient voltage	white white white whi	_
5.4.2.3.2.4	External circuit transient voltage	The second second	_
5.4.2.3.2.5	Transient voltage determined by measurement	MILES WALTER WALT WALT	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	set wird miret whird a	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t the state water and	N/A
5.4.2.6	Clearance measurement	me m m	N/A
5.4.3	Creepage distances	whet whet white white	N/A
5.4.3.1	General	all an at at	N/A
5.4.3.3	Material group	LIER MUTER MALTE WALL	
5.4.3.4	Creepage distances measurement	i s at at	N/A
5.4.4	Solid insulation	Et inthe while while w	N/A
5.4.4.1	General requirements	t at at	N/A
5.4.4.2	Minimum distance through insulation	white white when whe	N/A
5.4.4.3	Insulating compound forming solid insulation	A 1 1 1 5	N/A
5.4.4.4	Solid insulation in semiconductor devices	a pure when	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	an water water water	N/A
5.4.4.6.1	General requirements	t ret ret with a	N/A
5.4.4.6.2	Separable thin sheet material	where where we are	N/A
Intres and	Number of layers (pcs)	wet wet with a wet	N/A
5.4.4.6.3	Non-separable thin sheet material	mer me me	N/A
LITE MALL	Number of layers (pcs)	sitet still allet antice	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at the test that	N/A
5.4.4.6.5	Mandrel test	which where we are	N/A
5.4.4.7	Solid insulation in wound components	THE THE WHEN IN	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_{\rm P}$ , $K_{\rm R}$ , $d$ , $V_{\rm PW}$ (V)	and all an a	N/A
let let	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	white white white white	N/A
5.4.5	Antenna terminal insulation	LIER MALT MALL MAL	N/A
5.4.5.1	General	s at at at	N/A
5.4.5.2	Voltage surge test	MALTE WILL WALL W	N/A
5.4.5.3	Insulation resistance (MΩ)	s at at a	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Kequilement – Test	Result - Remark	veruici
jet-	Electric strength test	All All Contraction	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	SUNTER SUNTE SUNTE SUN	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WAITER WAIT	N/A
5.4.8	Humidity conditioning	it it it set	N/A
	Relative humidity (%), temperature (°C), duration (h)	when when we	
5.4.9	Electric strength test	until white white w	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at a	N/A
5.4.9.2	Test procedure for routine test	NALIE WALL WALL WALL	N/A
5.4.10	Safeguards against transient voltages from external circuits	LTEX INTEX MATER WAITE	N/A
5.4.10.1	Parts and circuits separated from external circuits	i i de de	< N/A
5.4.10.2	Test methods	antite while where	N/A
5.4.10.2.1	1 General		N/A
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	The inter white white	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	t stret wiret whitet	N/A
5.4.11.2	Requirements	The second second	N/A
mer m	SPDs bridge separation between external circuit and earth	MALTER WALTE WALTE WA	N/A
LIPE WALL	Rated operating voltage U <sub>op</sub> (V)	stet stret where where	_
st at	Nominal voltage U <sub>peak</sub> (V)	and the second second	
with	Max increase due to variation $\Delta U_{sp}$	Et NITER MITE WAITE	<u> </u>
. It	Max increase due to ageing $\Delta U_{sa}$	i i it it	
5.4.11.3	Test method and compliance	MUTER MALL MALL W	N/A
5.4.12	Insulating liquid	it at at a	N/A
5.4.12.1	General requirements	WALTE WALT WALT WAL	N/A
5.4.12.2	Electric strength of an insulating liquid	at the set set	N/A
5.4.12.3	Compatibility of an insulating liquid	the main man man	N/A
5.4.12.4	Container for insulating liquid	at at set set	N/A
5.5	Components as safeguards	white white white is	N/A
5.5.1	General	No such components as safeguards.	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
	Requirement - rest	Result - Remark	Verdict
5.5.2	Capacitors and RC units	We we are	N/A
5.5.2.1	General requirement	white white white	۸/۸ 🔊 💦
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	and and white	N/A
5.5.3	Transformers	We all an a	N/A
5.5.4	Optocouplers	tet whet white whit	N/A
5.5.5	Relays	The start	N/A
5.5.6	Resistors	t still million with	N/A
5.5.7	SPDs	the state	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	white white white w	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIEK WALFER WALFER WA	N/A
A INLIE	RCD rated residual operating current (mA)	of the set of	- "
5.6	Protective conductor	Protective conductor	
5.6.2	Requirement for protective conductors	+ ret riet wret	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	At A MITER OF	N/A
5.6.3	Requirement for protective earthing conductors		N/A
min	Protective earthing conductor size (mm <sup>2</sup> )	The state with shall	<u> </u>
+ INLIEK	Protective earthing conductor serving as a reinforced safeguard	t tot stat with	N/A
Julet .	Protective earthing conductor serving as a double safeguard	when when the test	N/A
5.6.4	Requirements for protective bonding conductors	white white where a	N/A
5.6.4.1	Protective bonding conductors	at at 5th s	<u>́</u> Л/А
	Protective bonding conductor size (mm <sup>2</sup> )	in my my m	_
5.6.4.2	Protective current rating (A)	at that the way	N/A
5.6.5	Terminals for protective conductors	m. m. m.	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	WALTER WALTER WALTER	N/A
WITER W	Terminal size for connecting protective bonding conductors (mm)	Whitek whitek whitek w	N/A
5.6.5.2	Corrosion	a de de	<u>م</u> الم
5.6.6	Resistance of the protective bonding system	the wait wat was	N/A
5.6.6.1	Requirements	t it it it	N/A
5.6.6.2	Test Method	when when when	N/A
5.6.6.3	Resistance (Ω) or voltage drop	the state	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
5.6.7	Reliable connection of a protective earthing conductor	at at at at	N/A	
5.6.8	Functional earthing	MULT MULT MULTURE	N/A	
NUTER ANY	Conductor size (mm <sup>2</sup> )	the set when when	N/A	
1. A	Class II with functional earthing marking	the superson so	N/A	
NIN NIN	Appliance inlet cl &cr (mm)	let wret writer white a	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	et allet outer antic and	N/A	
5.7.2.1	Measurement of touch current	SN ST AL	N/A	
5.7.2.2	Measurement of voltage	white white white white	_∞ <sup>©</sup> N/A	
5.7.3	Equipment set-up, supply connections and earth connections	Tet allet with anitet	N/A	
5.7.4	Unearthed accessible parts	a the second second	N/A	
5.7.5	Earthed accessible conductive parts	et with mile white w	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	and the state with out	N/A	
	Protective conductor current (mA)	When all an an	N/A	
nerte and	Instructional Safeguard	at with white	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	a when when when	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	* while while while while	N/A	
5.7.8	Summation of touch currents from external circuits	stret untret antret water	N/A	
LIFEX MAL	a) Equipment connected to earthed external circuits, current (mA)	The week much much	N/A	
et ste	b) Equipment connected to unearthed external circuits, current (mA)	at let get get	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
NUTER	Mains terminal ES	No battery used	N/A	
20	Air gap (mm)	my my my my	N/A	

6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of PS and PIS	at at all set set	P
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)	Tex P



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Clause	Requirement – Test	Result – Remark	Verdict
	Requirement – Test	Result - Remark	Veruici
6.2.3	Classification of potential ignition sources	See the following details.	Р
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	THE 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
me m	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	ions	<sup>⊘</sup> ₽
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	et miret aniret wainet an	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	stret stret whilet whi	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions	att white white	N/A
to the	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	reader white white white v	P
6.4.5	Control of fire spread in PS2 circuits	i it it it.	, ⊘⊢ N/A
6.4.5.2	Supplementary safeguards	and the worker white we	N/A
6.4.6	Control of fire spread in PS3 circuits	the state of	N/A
6.4.7	Separation of combustible materials from a PIS	white white white whe	N/A
6.4.7.2	Separation by distance	at at let set	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
	Openings dimensions (mm)	me me me	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A



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in m	IEC 62368-	NUTER INTE WALL WALL	ne m
Clause	Requirement – Test	Result – Remark	Verdict

	Openings dimensions (mm)		N/A
mr. m	Flammability tests for the bottom of a fire enclosure	white white white white	N/A
Little Mail	Instructional Safeguard	THE LIFE NUMBER MUTER	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
MALIN	Openings dimensions (mm)	tex where where while we	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	which which when when	N/A
6.5	Internal and external wiring	at at at at	.5 <sup>67</sup> 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
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	Р
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	ر N/A 🖉
6.6	Safeguards against fire due to the connection to ac	ditional equipment	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	, P ,,⊱
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A ~
, et	Personal safeguards and instructions	—
7.5 🚿	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010)	_
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		-√ <sup>®</sup> P
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy	sources	211 P 21
8.4	Safeguards against parts with sharp edg	ges and corners	_ ∕ <sup>™</sup> P _
8.4.1	Safeguards	NITE WATE WATE MALE WITE	Р
* white	Instructional Safeguard		P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P



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-24	A A A	IEC 62368-1	ne and an	- 14 A.
Clause	Requirement – Test	mer m. n	Result – Remark	Verdict

8.5	Safeguards against moving parts		
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
The Mult	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
et Jet	Moving MS3 parts only accessible to skilled person	at let let ster s	N/A
8.5.2	Instructional safeguard:	i mi mi m	N/A
8.5.4	Special categories of equipment containing moving parts	+ untret antifet antifet and	N/A
8.5.4.1	General	at at the state	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	white white when when	N/A
8.5.4.2.1	Protection of persons in the work cell	at at at at all	N/A
8.5.4.2.2	Access protection override	it was many with a	N/A
8.5.4.2.2.1	Override system	at the state state of	N/A
8.5.4.2.2.2	Visual indicator	the me in a	N/A
8.5.4.2.3	Emergency stop system	LIEX ALIEN MUTE MAIN	N/A
NUTER ANUT	Maximum stopping distance from the point of activation (m):	at start with	N/A
let stat	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements	in more work with all	N/A
WALTER V	Mechanical system subjected to 100 000 cycles of operation	t milet whilet whilet whi	N/A
Set 5	- Mechanical function check and visual inspection	a at at at	N/A
m. m.	- Cable assembly	untit water water water	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	stret maret analet antifet	N/A
8.5.4.3.1	Equipment safeguards	i it it it i	⊘ <sup>_</sup> N/A
8.5.4.3.2	Instructional safeguards against moving parts:	E white white white wh	N/A
8.5.4.3.3	Disconnection from the supply	. A let let S	N/A
8.5.4.3.4	Cut type and test force (N):	which which which which	N/A
8.5.4.3.5	Compliance	at at set set	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
TEL NATE	Explosion test:	the state state within a	N/A
8.5.5.3	Glass particles dimensions (mm):	AND AN AN	N/A
8.6	Stability of equipment	et with our with and a	N/A
8.6.1	General	MS1: Mass of the unit	N/A
we we	Instructional safeguard:	with all and and and	N/A

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201	IEC 62368-1	still white white white	an an
Clause	Requirement – Test	Result – Remark	Verdict
		with white all a	N SW
8.6.2	Static stability	the states	N/A
8.6.2.2	Static stability test:	white white white wh	N/A
8.6.2.3	Downward force test	t at at al	N/A
8.6.3	Relocation stability	min white white whe	N/A
it sit	Wheels diameter (mm):	at at at at	
20	Tilt test	it water water war.	N/A
8.6.4	Glass slide test	t set set set a	N/A
8.6.5	Horizontal force test:	white where where we	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	the street with white	N/A
t at	Test 1, additional downwards force (N):	with the second	N/A
wat	Test 2, number of attachment points and test force (N):	et white white white	N/A
white w	Test 3 Nominal diameter (mm) and applied torque (Nm):	white white white wh	N/A
8.8	Handles strength	A 1 1 1 1	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test		N/A
	Number of handles	me me me	
NUTE	Force applied (N):	t tet stat states	S. S. S.
8.9	Wheels or casters attachment requirements	MULT MULT MILL 23	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	me in in	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	et tet tet ster	N/A
8.10.3	Cart, stand or carrier loading test	m. m. m.	N/A
WALTE M	Loading force applied (N):	THE STEEL STEEL STEEL ST	N/A
8.10.4	Cart, stand or carrier impact test	THE THE TO BE	N/A
8.10.5	Mechanical stability	stret where where whi	N/A
15 13	Force applied (N):	and the second	
8.10.6	Thermoplastic temperature stability	iter miter white white	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		N/A



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

	Instructional Safeguard:	where the second	N/A
8.11.3	Mechanical strength test	white white white white	N/A
8.11.3.1	Downward force test, force (N) applied	the second second	N/A
8.11.3.2	Lateral push force test	NUTE MUTE WILL WILL	N/A <sup>SU</sup>
8.11.3.3	Integrity of slide rail end stops	i it it it	_<_N/A
8.11.4	Compliance	it white white when w	N/A
8.12	Telescoping or rod antennas	s at at at a	N/A
20. 1	Button/ball diameter (mm):	No such parts	

9	THERMAL BURN INJURY		∿л Р .
9.2	Thermal energy source classifications         Touch temperature limits		∕P
9.3			Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P C
9.3.2	Test method and compliance	See B.1.6 & B.2.3	- P
9.4	Safeguards against thermal energy sources	the mile while while whi	<i>∽</i> /∩P
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.	Р
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitter	SAL ANT ATT MATT	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	+ tret whet while white w	N/A
9.6.3	Test method and compliance		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	See below	Р
M. M	Lasers:	LIFE MILES WATE WATE	
ist whit	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	—
+ .5 <sup>6*</sup>	Image projectors:	at the set of	
24	X-Ray:	white man me m	
J.	Personal music player:	of the set of all	



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In Mar	Apr. In. I.	IEC 62368-1	where white white wh	- me m
Clause	Requirement – Test	more min in	Result – Remark	Verdict

10.3	Safeguards against laser radiation		
men m	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		NULL P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	CIEC P
MALTER	Instructional safeguard provided for accessible radiation level needs to exceed	t und winet white whi	N/A
A	Risk group marking and location	The second second	N/A
mer m	Information for safe operation and installation	white white white white	_√N/A
10.4.2	Requirements for enclosures	so i to tot	N/A
er mer	UV radiation exposure:	LIER MITE MALT WALL	N/A
10.4.3	Instructional safeguard:	i i it it	−N/A</td
10.5	Safeguards against X-radiation	ret unite white white wh	N/A
10.5.1	Requirements	No X-radiation	N/A
m n	Instructional safeguard for skilled persons	white white white white	
10.5.3	Maximum radiation (pA/kg)	10 10 5 th	
10.6	Safeguards against acoustic energy sources		Р
10.6.1	General		S Par
10.6.2	Classification	Headphones: RS1	Р
WALTE	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	See EN 50332-2 test report No.: WTF23X09200189Y.	P
WALTER WA	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
de d	Digital output signal (dBFS):	i i at at at	N/A
10.6.3	Requirements for dose-based systems	NUTE INTE WALL WALL	N/A
10.6.3.1	General requirements	s at at at	N/A
10.6.3.2	Dose-based warning and automatic decrease	white white white all	N/A
10.6.3.3	Exposure-based warning and requirements	. It it it is	N/A
20 1	30 s integrated exposure level (MEL30):	main was and man	N/A
STER IN	Warning for MEL ≥ 100 dB(A):	let let stat stat	N/A
10.6.4	Measurement methods	nut mut me m	Р
10.6.5	Protection of persons	at the set wet	ST P.
	Instructional safeguards:	the man and a	Р
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	at white white white wh	Ρ
10.6.6.1	Corded listening devices with analogue input	a at at a	N/A



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20.	and the state of the	IEC 62368-1	201. 24.
Clause	Requirement – Test	Result – Remark	Verdict

	Listening device input voltage (mV):	AN AN A A	N/A
10.6.6.2	Corded listening devices with digital input	white white white white	N/A 🚽
to a	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	shi to to the	N/A
10.6.6.3	Cordless listening devices	NUTER INTER WALL WALL	N/A
et de	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	1 s at at	N/A^

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING ITION TESTS	P
B.1	General	me me me	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	. √°P
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	о́ Р <sub>о</sub>
WALTE	Audio Amplifiers and equipment with audio amplifiers:	at white white white w	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	Р
B.2.5	Input test:	(See appended table B.2.5)	~, Р
B.3	Simulated abnormal operating conditions	at a star	_√P
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
e de	Instructional safeguard:	when the and a	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	N <sup>N</sup> P
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	P.
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	THE P
B.4	Simulated single fault conditions	mu mu m a	Р
B.4.1	General	THE NUTER WITE WIT	NP.
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. SUNITION
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р



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	IEC 62368-1	an an an	
Clause	Requirement – Test	Result – Remark	Verdict
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	State P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	LITER MALTER MALTER WALLER	N/A
C.2.1	Test apparatus:	A A	N/A
C.2.2	Mounting of test samples	and the spring when sh	N/A
C.2.3	Carbon-arc light-exposure test	a at at a	N/A
C.2.4	Xenon-arc light-exposure test	white white white whe	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	with white white white	N/A
D.2	Antenna interface test generator	at all states what	N/A
D.3	Electronic pulse generator	when the sur a	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN		N/A
E.1	Electrical energy source classification for audio	o signals	N/A
IN. THE	Maximum non-clipped output power (W):	with with with out	—
de la	Rated load impedance (Ω):	me m m	—
an when	Open-circuit output voltage (V):	ret miles miles while	_
t st	Instructional safeguard:	the state	
E.2	Audio amplifier normal operating conditions	it while any reason w	N/A
1th	Audio signal source type:	a at at a	é —
m no	Audio output power (W):	white white white white	



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-24.		IEC 62368-1	not and when we	In a
Clause	Requirement – Test	when we we	Result – Remark	Verdict

	Audio output voltage (V):	Star A A	—
in the	Rated load impedance (Ω):	white white white white	
dt i	Requirements for temperature measurement	in a st st	N/A
E.3	Audio amplifier abnormal operating conditions	NUTE INTE WALL WALL	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	LTER P
F.1 🦽	General	5 × ×	,⊱ P,∢
man	Language	English	
F.2 👉	Letter symbols and graphical symbols	1 A A A	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	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.	Р
F.3	Equipment markings	t the stat with our	P
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.	N Ru
F.3.2.1	Manufacturer identification:	See copy of marking plate	, P
F.3.2.2	Model identification:	See copy of marking plate	νP
F.3.3	Equipment rating markings	See below for details.	- P
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	√ <sup>™</sup> N/A
F.3.3.2	Equipment without direct connection to mains	See above.	, ¢P
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	ν Pγ
F.3.3.4	Rated voltage:	See copy of marking plate.	<i>. С</i> . Р
F.3.3.5	Rated frequency	DC supply	Р
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	NUT MUT MUT M	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	TEX WATER WATER WATER	N/A
F.3.5.2	Switch position identification marking:	at at at at	N/A
F.3.5.3	Replacement fuse identification and rating markings	white where we we	N/A
in me	Instructional safeguards for neutral fuse	atter mill white white	N/A



N/A

IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
F.3.5.4	Poplacement better/identification marking	No such betten/	N/A
F.3.5.4	Replacement battery identification marking: Neutral conductor terminal	No such battery.	N/A
1977 - T		No such parts.	
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	ret whet where where w	N/A
F.3.6.1.1	Protective earthing conductor terminal:	Mr. Str.	N/A
F.3.6.1.2	Protective bonding conductor terminals:	t still mill white whi	N/A
F.3.6.2	Equipment class marking:	W L At A	N/A
F.3.6.3	Functional earthing terminal marking:	miter mite wait wat	_s∿ <sup>™</sup> N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	INLIEK V
F.3.8	External power supply output marking:	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	
F.4	Instructions	at all all all	P
, e _ de	a) Information prior to installation and initial use	See user manual	Р
WALTE	b) Equipment for use in locations where children not likely to be present	et white white white w	N/A
JIEK.	c) Instructions for installation and interconnection	at at set is	N/A
and a	d) Equipment intended for use only in restricted access area	white white where where	N/A
ne m	e) Equipment intended to be fastened in place	INTERNATION MAL MAL	N/A
10 50	f) Instructions for audio equipment terminals	s at at set	N/A
a sur	g) Protective earthing used as a safeguard	The watter water water y	N/A
A WALTER	h) Protective conductor current exceeding ES2 limits	et minet antifet waiter wh	N/A

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Graphic symbols used on equipment



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24hr	IEC 62368-1	NUTE WHITE WALL WAL	m. m.
Clause	Requirement – Test	Result – Remark	Verdict
m		the watter water water	Nor Mr
UNLIEK AV	j) Permanently connected equipment not provided with all-pole mains switch	t tet stat stat	N/A
	k) Replaceable components or modules providing safeguard function	which which we are	N/A
24	I) Equipment containing insulating liquid	Inter when whe wh	N/A
et ste	m) Installation instructions for outdoor equipment	at at at at	N/A
F.5	Instructional safeguards	it's white white white	N/A
G	COMPONENTS		Р
G.1	Switches	mer me m	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	m. m. m	N/A
G.1.3	Test method and compliance	the state with mi	N/A
G.2	Relays	h w w	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	Mr. So st	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	WALTER WALTER WALTER	N/A
G.2.4	Test method and compliance	At States	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No such component	N/A
t miret	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	at that the the	N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)	when when when	N/A
G.3.1.2	Test method and compliance	NUNE WITT WAT A	N/A
G.3.2	Thermal links	No such component	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	and when any we	N/A
m	b) Thermal links tested as part of the equipment	TER UNITE WALL WALL	N/A
G.3.2.2	Test method and compliance	a at at	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	white white white w	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	perfet while while whi	N/A
G.3.5.2	Single faults conditions:	set stret wires white	N/A
G.4	Connectors	All and a	N/A
G.4.1	Spacings	No such component	N/A



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29	IEC 62368-1	ner whe whe wh	24 4
Clause	Requirement – Test	Result – Remark	Verdict
when a	n a state	ter and the applicant application	me m
G.4.2	Mains connector configuration:	the state	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components	and the super of	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	set when outer white	N/A
G.5.2	Endurance test	Mi Shi t	N/A
G.5.2.1	General test requirements	et attet intite muit	N/A
G.5.2.2	Heat run test	The state of the s	N/A
me m	Test time (days per cycle):	MITER WALTER WALTE W	1 <sup>2</sup>
the se	Test temperature (°C):	1 At At	
G.5.2.3	Wound components supplied from the mains	LIFE MALL MALL WA	N/A
G.5.2.4	No insulation breakdown	s at at at	N/A
G.5.3	Transformers	while whe whe	N/A
G.5.3.1	Compliance method:	the state of the	N/Á
the a	Position:	white white white	N/A
NUTER INT	Method of protection:	at the	N/A
G.5.3.2	Insulation	- 4 - 4 - 1º	N/A
ier wire	Protection from displacement of windings:	10 Nr 31 1	—
G.5.3.3	Transformer overload tests	me m m	N/A
G.5.3.3.1	Test conditions	of the whee whee	N/A
G.5.3.3.2	Winding temperatures	the second	N/A
G.5.3.3.3	Winding temperatures - alternative test method	THE MUSE WITH T	N/A
G.5.3.4	Transformers using FIW	an an a	N/A
G.5.3.4.1	General	stift out and white wh	N/A
8 1	FIW wire nominal diameter:		* -
G.5.3.4.2	Transformers with basic insulation only	THE MALTE MALL WAL	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	- whet while while	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	tet set set	N/A
G.5.3.4.5	Thermal cycling test and compliance	m. m. m. r.	N/A
G.5.3.4.6	Partial discharge test	THE STREE STREE WIT	N/A
G.5.3.4.7	Routine test	- W. W. W.	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	St. St. A.	N/A
G.5.4.2	Motor overload test conditions	the stree with	N/A



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	IEC 62368-1	m m m m	
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.3	Running overload test	M. W. M.	N/A
G.5.4.3 G.5.4.4.2	Locked-rotor overload test	at set set	N/A
6.5.4.4.2		min min me	IN/A
<u> </u>	Test duration (days)	the state	
G.5.4.5	Running overload test for DC motors	ner and any an	N/A
G.5.4.5.2	Tested in the unit	at the set of	N/A
G.5.4.5.3	Alternative method	y we she she	N/A
G.5.4.6	Locked-rotor overload test for DC motors	t at alt alt	N/A
G.5.4.6.2	Tested in the unit	white white white	N/A
NUTER IN	Maximum Temperature:	at at set	N/A
G.5.4.6.3	Alternative method	Wer Mer Mer M	N/A
G.5.4.7	Motors with capacitors	set set set a	N/A
G.5.4.8	Three-phase motors	er mer mer m	N/A
G.5.4.9	Series motors	et set set all	N/A
A	Operating voltage:	and an an	—
G.6	Wire Insulation	- JEK JIE MIE	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	set intre-wi	N/A.
G.7	Mains supply cords		N/A
G.7.1	General requirements	No such component	N/A
t st	Туре:	in the state	_
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):	A INTER INDER WALTE	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	and what what	N/A
G.7.3.2	Cord strain relief	100 - 10 - L	N/A
G.7.3.2.1	Requirements	ster ster interior	N/A
A 14	Strain relief test force (N):		- N/A
G.7.3.2.2	Strain relief mechanism failure	ist must inthe wat	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1 A A	N/A
G.7.3.2.4	Strain relief and cord anchorage material	INTER WALT WATE	N/A
G.7.4	Cord Entry	+ + t	N/A
G.7.5	Non-detachable cord bend protection	UNITE WATE WATE W	N/A
G.7.5.1	Requirements	a de de la	N/A
G.7.5.2	Test method and compliance	LIES WALL WALL WALL	N/A
A WALTER	Overall diameter or minor overall dimension, <i>D</i> (mm)	at white white white	- m
Ar	Radius of curvature after test (mm):		



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6	Supply witing appen	the world wind wind with the		
	Supply wiring space	at at at a	N/A	
G.7.6.1	General requirements	main with with sure	N/A	
G.7.6.2	Stranded wire	the state of the	N/A	
G.7.6.2.1	Requirements	all she she she	N/A	
G.7.6.2.2	Test with 8 mm strand	a st st st	N/A	
G.8	Varistors	an when when the se	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	mer and an we we	N/A	
G.8.2.1	General	at at all all	N/A	
G.8.2.2	Varistor overload test	men men men m	N/A	
G.8.2.3	Temporary overvoltage test	at get get with	N/A	
G.9	Integrated circuit (IC) current limiters	the aller aller and	N/A	
G.9.1	Requirements	No such component	N/A	
	IC limiter output current (max. 5A):	mer mer mer in	_	
White W	Manufacturers' defined drift:	STER STER MITER MIT	_	
G.9.2	Test Program		N/A	
G.9.3	Compliance		N/A	
G.10	Resistors		N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	i i it it	N/A	
G.10.3	Resistor test	A MUTER MALLE MALL WAS	N/A	
G.10.4	Voltage surge test		N/A	
G.10.5	Impulse test	white white white white	N/A	
G.10.6	Overload test	+ + + +	N/A	
G.11	Capacitors and RC units	INTERNITE WITT WITT	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	in me me me m	N/A	
G.11.3	Rules for selecting capacitors	- it it it i	N/A	
G.12	Optocouplers	Mart Mart Wat when	N/A	
INLIE WIL	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
1 <sup>10</sup> . 1 <sup>10</sup>	Type test voltage V <sub>ini,a</sub> :	a at at at	_	
ANU.	Routine test voltage, V <sub>ini, b</sub>	The Main Main Main V	_	
G.13	Printed boards	1 1 1 1 1 1	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.13.2	Uncoated printed boards	WILL'S WILL WILL	N/A	
G.13.2	Coated printed boards	at st st	N/A	
G.13.4	Insulation between conductors on the same inner	with with with	N/A N/A	
0.13.4	surface	TEX TEX NUTEX IN		
G.13.5	Insulation between conductors on different surfaces	at at at at	N/A	
20.	Distance through insulation:	y mur mur mur	N/A	
. NUTER .	Number of insulation layers (pcs):	t let set set		
G.13.6	Tests on coated printed boards	me m m	N/A	
G.13.6.1	Sample preparation and preliminary inspection	the state when	N/A	
G.13.6.2	Test method and compliance	m. m. m	N/A	
G.14	Coating on components terminals	TER NITER MITER MY	N/A	
G.14.1	Requirements:	241 241	N/A	
G.15	Pressurized liquid filled components	ret allet white white	N/A	
G.15.1	Requirements	No such component	N/A	
G.15.2	Test methods and compliance	with white white	N/A	
G.15.2.1	Hydrostatic pressure test		N/A	
G.15.2.2	Creep resistance test	unit un	N/A	
G.15.2.3	Tubing and fittings compatibility test		N/A	
G.15.2.4	Vibration test	TE WALL WAL WAL	N/A	
G.15.2.5	Thermal cycling test	e at at at	N/A	
G.15.2.6	Force test	WALL WALL WAT	N/A	
G.15.3	Compliance	at at at	N/A	
G.16	IC including capacitor discharge function (ICX)	mur me me s	N/A	
G.16.1	Condition for fault tested is not required	No such component	N/A	
	ICX with associated circuitry tested in equipment	Nr. What we we	N/A	
E. Mult	ICX tested separately	at which which which	N/A	
G.16.2	Tests	the strength	N/A	
WINDLAW W	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test :	watter watter watter	when -	
INITER UNI	Mains voltage that impulses to be superimposed	Tex stex stex	11 <sup>61</sup> —	
	on	int whe she w		
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	TEX NITEX MITEX MIT	S	
G.16.3	Capacitor discharge test:	and the second	. N/A	
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A	
H.1_&	General	a a at	N/A	
H.2	Method A	with with which a	N/A	

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

Н.3	Method B	and the second	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	near water war war	—
H.3.1.2	Voltage (V):	at all the states	
H.3.1.3	Cadence; time (s) and voltage (V):	we we we we	_
H.3.1.4	Single fault current (mA):	t the state when we	
H.3.2	Tripping device and monitoring voltage	Mr. In In	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	WALTER WALTER WALTE WALTE	N/A
H.3.2.2	Tripping device	ret stat stat when	N/A
H.3.2.3	Monitoring voltage (V):	in mu mu	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	
J.1	General	+ let let set with	N/A
24. 0	Winding wire insulation:	white white white white	—
NUTER IN	Solid round winding wire, diameter (mm):	the state	N/A
let th	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> ):		N/A
J.2/J.3	Tests and Manufacturing	in more more all	
к	SAFETY INTERLOCKS		N/A
K.1	General requirements	mer mer me m	N/A
WILLES M	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	mile while whe where	N/A
K.4 🧹	Interlock safeguard override	at let the states	N/A
K.5	Fail-safe	y mur mur me w	N/A
K.5.1	Under single fault condition	- ret ret with mit	N/A
K.6	Mechanically operated safety interlocks	wat was all the	N/A
K.6.1	Endurance requirement	set set after mile	N/A
K.6.2	Test method and compliance:	New Mr. In the	N/A
K.7	Interlock circuit isolation	ster stier while while a	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at the tit the	N/A
.tt	In circuit connected to mains, separation distance for contact gaps (mm)	wat wat we we	N/A



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m. mur		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Mr	M W Y	- APT THE ALL MALL	solo solo

M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	, P
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	Pyn Mult
nr m	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
SN S	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
Jet	Excessive discharging	(See appended table Annex M)	P
* UNITE	Overcharging of a rechargeable battery	(See appended table Annex M)	P P
M.3.2	Test method	ster street intre- white is	P_2, b <sup>2</sup> ∕l
vl.3.1	Requirements	m m m t	Р
Л.3	Protection circuits for batteries provided within the equipment	and and what make	P.K
vl.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	P
N.2	Safety of batteries and their cells	ite white white white a	Р
VI.1 🧹	General requirements		, P
Л	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	№ Р «
dt .	Instructional safeguard:	the second second	N/A
8	Multiple power sources	MUTER WALTER WALTER WALT	.⊲Ñ/A
7	Plugs as disconnect devices	No. St. A.	N/A
6	Switches as disconnect devices	et the street while we	N/A
5	Three-phase equipment	the second se	N/A
£.4 N	Single-phase equipment	and and after out to	N/A
3	Parts that remain energized	Mar Mar Mar	N/A
2	Permanently connected equipment	10 10 50 50	N/A
1	General requirements	me me m	N/A
_	DISCONNECT DEVICES		N/A
<.7.4	Electric strength test	MAL WAY WILL W	N/A
7.3 °	Endurance test	s at at at	N/A
(.7.2	K.7.2: Overload test, Current (A):	NITE WALTER WATER	N/A
	Electric strength test before and after the test of	(See appended table 5.4.9)	N/A



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2. 2.	and the second second	IEC 62368-1	ne the set of	. 14 m
Clause	Requirement – Test	more me se	Result – Remark	Verdict

M.4.1	General	190 - 190	P,+
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	P
M.4.2.1	Requirements	white white white white	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	LIET WALTER WALTER WALTER	UTE Pont
M.4.4.2	Preparation and procedure for the drop test	the state of a	e P <sub>s</sub> se
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	NP .
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	P
M.4.4.6	Compliance	the white white and a	Р
M.5	Risk of burn due to short-circuit during carryin	g , , , , , , , , , , , , , , , , , , ,	P.S.
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	INTER WALT WAT WAT	√ <sup>™</sup> N/A <sup>→</sup>
M.6	Safeguards against short-circuits	a at at at	_∕ <sup>⊘</sup> P
M.6.1	External and internal faults	with white white white w	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.	Sec Pure
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
in white	Calculated hydrogen generation rate	THE STREE MITTER MUTTERS	N/A
M.7.2	Test method and compliance	She was the	, N/A ∕
with	Minimum air flow rate, Q (m <sup>3</sup> /h):	at outer unite would work	N/A
M.7.3	Ventilation tests	the state of	N/A
M.7.3.1	General	stree white white white	~N/A



	IEC 62368-1	<u> </u>
Clause	Requirement – Test   Result – Remark	Verdict
	AN AN AN AND AND AND AND AND AND AND AND	<u> </u>
M.7.3.2	Ventilation test – alternative 1	N/A
m n	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
2n	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
24	Hydrogen gas concentration (%):	N/A
M.7.4	Marking	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	s N/A
M.8.1 📣	General	_s∿`N/A
M.8.2	Test method	N/A
M.8.2.1	General	N/A
M.8.2.2	Estimation of hypothetical volume V <sub>Z</sub> (m <sup>3</sup> /s):	Set -
M.8.2.3	Correction factors:	n - m
M.8.2.4	Calculation of distance d (mm):	55
M.9	Preventing electrolyte spillage	N/A
M.9.1	Protection from electrolyte spillage	N/A
M.9.2	Tray for preventing electrolyte spillage	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	N/A
JEE	Instructional safeguard:	N/A
N	ELECTROCHEMICAL POTENTIALS	N/A
NUTER IN	Material(s) used:	10 <u></u>
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
in and	Value of X (mm)	Inter-
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	Р
P.1	General See below	J P
P.2	Safeguards against entry or consequences of entry of a foreign object	P
P.2.1	General	V NP
P.2.2	Safeguards against entry of a foreign object	, P
ver m	Location and Dimensions (mm): No opening.	m
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A

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N/A

The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment

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20.	IEC 62368-1	at the she was	$\delta_{i} = \delta_{i}$
Clause	Requirement – Test	Result – Remark	Verdict
m		the water water white and	
	Transportable equipment with metalized plastic parts	at let set is	N/A
P.2.3.2	Consequence of entry test:	MUT MUT MUT AND	N/A
P.3	Safeguards against spillage of internal liquids	the set side with	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	let the street outer intreman	N/A
P.3.3	Spillage safeguards	The second	N/A
P.3.4	Compliance	t still with white white	N/A
P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1 📣	General	No such construction.	_∿ <sup>∩</sup> N/A
P.4.2	Tests	i st at at	N/A
an mar	Conditioning, T <sub>C</sub> (°C):	LIER NALL WALL WALL	n. –,
* 50*	Duration (weeks):	e to at at	× -
Q **	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		P
Q.1	Limited power sources	See appended table Annex Q.1	P
Q.1.1	Requirements		P
tes m	a) Inherently limited output	and white white	N/A
et de	b) Impedance limited output		_ ∕° P
-m	c) Regulating network limited output	in white white white is	N/A
t Jillt	d) Overcurrent protective device limited output	4 at at at a	N/A
in	e) IC current limiter complying with G.9	White white where we	N/A
Q.1.2	Test method and compliance:	See below	Р
Alt of	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	Р
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
with	Maximum output current (A)	let mare unite white white	N/A
det.	Current limiting method:	and the state	ð 🛒
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	General No such consideration.	
R.2	Test setup	white while white white	N/A
5 <sup>04</sup> .51	Overcurrent protective device for test:	it at let let	5 <sup>61</sup> -
R.3	Test method	the write write with a	N/A
A STER	Cord/cable used for test:	at let get get a	
R.4	Compliance	which which where will	N/A

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m	all the second	IEC 62368-1	UTER WALTE WALT W	r. me m
Clause	Requirement – Test	mer my m	Result – Remark	Verdict

sur	with with the set of t	m
s 🖉	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
LIE M	Samples, material	nur-n
st s	Wall thickness (mm)	
m	Conditioning (°C)	3. <del>4</del> 1,
MALTER	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
Inter W	- Material extinguishes within 30s	N/A
de la	- No burning of layer or wrapping tissue	N/A
S.2 📣	Flammability test for fire enclosure and fire barrier integrity	N/A
* 1	Samples, material	st - 3
m	Wall thickness (mm)	- alex
. At	Conditioning (°C)	
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
Set al	Mounting of samples	5 <sup>68</sup> -18
	Wall thickness (mm)	
S.4 ో	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A
dt .	Samples, material	Jet-
~ w	Wall thickness (mm)	$h_{n}$ $\overline{h}_{n}$
t 5ª	Conditioning (°C)	(t <sup>a</sup> - 5
Т	MECHANICAL STRENGTH TESTS	N/A
T.1_5	General	N/A
Т.2	Steady force test, 10 N	N/A
Т.3	Steady force test, 30 N	N/A
Т.4	Steady force test, 100 N	N/A
T.5	Steady force test, 250 N	N/A
Т.6	Enclosure impact test	N/A
while	Fall test	N/A
d.	Swing test	N/A
T.7	Drop test	N/A



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	IEC 62368-1	the the second	
Clause	Requirement – Test	Result – Remark	Verdict
T.8	Stress relief test:	white white white wh	NI/A
	and the second	1 1 1 1 1 S	N/A
T.9 📣	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	at at let let	N/A
20	Number of particles counted:	No such glass	N/A
T.11 🛒	Test for telescoping or rod antennas		
t stit	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1 📣	General		_√°Ň/A
LIEK MAIN	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	white white	N/A
V.1.3	Openings tested with straight unjointed test probes	Alt of the state of	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	Mr. Mr. M.	N/A
V.1.5	Slot openings tested with wedge probe	t wet when which wh	N/A
V.1.6	Terminals tested with rigid test wire	M. M. M.	N/A
V.2	Accessible part criterion	stret atter with white white	N/A
X of south	ALTERNATIVE METHOD FOR DETERMINING CL INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
et Jiet	Clearance:	it at set set	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	Mr. Mr. Mr. M.	N/A
Y.3	Resistance to corrosion	at at are are	N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TER WAITER WALTER WALTER	N/A
Y.3.2	Test apparatus	t at at at	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	WALL WITH WITH	N/A
Y.3.4	Test procedure	at the state of	N/A



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24	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
sin	with the second	+ TER MITE AND AND	me me	
Y.3.5	Compliance	with the second second	N/A	
Y.4 📣	Gaskets	with with white white	N/A	
Y.4.1	General	and the set	N/A	
Y.4.2	Gasket tests	LIEK NUTER INTE MALL W	N/A	
Y.4.3	Tensile strength and elongation tests	i i i it it	N/A	
m	Alternative test methods	Et in its white white wh	N/A	
Y.4.4	Compression test	L A A A	N/A	
Y.4.5	Oil resistance	unite while while white	N/A	
Y.4.6	Securing means	t at at set	N/A	
Y.5	Protection of equipment within an outdoo	r enclosure	N/A	
Y.5.1 💉	General	A A let let	N/A	
Y.5.2	Protection from moisture	The man man me m	N/A	
an interest	Relevant tests of IEC 60529 or Y.5.3	united the set of	N/A	
Y.5.3	Water spray test	me me me m	N/A	
Y.5.4	Protection from plants and vermin	the set state with	N/A	
Y.5.5	Protection from excessive dust	WALL WALL WALL WALL	N/A	
Y.5.5.1	General	all the sales	N/A	
Y.5.5.2	IP5X equipment		N/A	
Y.5.5.3	IP6X equipment	et ter with white wh	N/A	
Y.6	Mechanical strength of enclosures		– N/A	
Y.6.1	General	all anter antice wait	N/A	
Y.6.2	Impact test	50 - 50 - A	N/A	



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Clause

Requirement – Test

Result – Remark

Verdict

	Trequirement – Test	Result – Remark	veruici
WALTER WA	ATTACHMENT TO TEST R IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND N		Whitek
the second	/video, information and communication technology ed	The strength of the strength o	nents)
Difference	s according to: EN IEC 62368-1:2020+A1	1:2020	st.
Attachmer	nt Form No: EU_GD_IEC62368_1E nt Originator: UL(Demko) achment: 2021-02-04	Net white white white white	WINLIFE WINLIFE
	© 2021 IEC System for Conformity Testing and Co eneva, Switzerland. All rights reserved.	ertification of Electrical Equipm	ent
L'E MAL	CENELEC COMMON MODIFICATIONS (EN)	LIES MITE MALICE MALICE MA	Р
WALTER W	Clause numbers in the cells that are shaded light gr 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 anr those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P M
	<ul> <li>Add the following annexes:</li> <li>Annex ZA (normative)Normative references to intern corresponding European publications</li> <li>Annex ZB (normative)Special national conditions</li> <li>Annex ZC (informative)A-deviations</li> <li>Annex ZD (informative)IEC and CENELEC code destinational conditions</li> </ul>	ite white white white whi	
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	efinitions:	N/A
3.3.19.1	momentary exposure level, MELmetric for estimating 1 s sound exposure level fromthe HD 483-1 S2 test signal applied to bothchannels, 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 additionalinformation.	Not such equipment	N/A
3.3.19.3	sound exposure, E	NUTE INTE WALL WALL	N/A
	A-weighted sound pressure ( <i>p</i> ) squared and integrated over a stated period of time, <i>T</i> Note 1 to entry: The SI unit is Pa <sup>2</sup> s. $E = \int_{0}^{T} p(t)^{2} dt$	and white white white white	



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Ser.	Mr. Mr. M. A. Alt of	the set of	me m
3.3.19.4	<ul> <li>sound exposure level, SEL</li> <li>logarithmic measure of sound exposure relative to a reference value, <i>Eo</i>, typically the 1 kHz threshold of hearing in humans.</li> <li>Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.</li> </ul>	MALTER MALTER MALTER M	N/A
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$ Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	whitek whitek whitek	white white
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997- Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals	And white white white	er N/A
2	may reach +3,01 dBFS. Modification to Clause 10		N/A
			2
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	ite white white white	N/A
	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an <b>ordinary person</b> , that: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	uniter white white white	
	EXAMPLES Portable CD players, MP3 audio players, mobile		1 1



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Ma	where the set of the s	er alle and and	mr m
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	No. No. of the	at at
	n' when when we are	the star star	Inter Mater
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose	and an an	5
	measurement method as given in 10.6.5 in future. Therefore,	a at at	Set Set
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	life all with which we	· 4 4
	possible.	1. 20. 2.	s it
	Listening devices sold separately shall comply	at at all as	ne in
	with the requirements of 10.6.6.	when when when	30. 2.
	These requirements are valid for music or video	a at at	10 15
	mode only. The requirements do not apply to:	The with white	white white
	– professional equipment;	m. m. w.	d A
		at at at	JIE NIE
	NOTE 3Professional equipment is equipment sold through	inter water water a	12 - 20
	special sales channels. All products sold through normal electronics stores are considered not to be professional		at at
	equipment.	Jet Jet with m	Nr - Nr
	and the state state with an	when we we	
	- hearing aid equipment and other devices for	+ at at a	5 . S . S
	assistive listening; – the following type of analogue personal music	untit with with	the in
	players:		de la
	Iong distance radio receiver (for example, a	THE JEE WITH	INLIE MALL
	multiband radio receiver or world band radio	Mr. mur mur.	20. 20
	receiver, an AM radio receiver), and	1 / At	Set Set
	cassette player/recorder;	AN ANALAN	and a second
	NOTE 4 This exemption has been allowed because this		st at
	technology is falling out of use and it is expected that within a	10 NO 10 1	in the second
	few years it will no longer exist. This exemption will not be extended to other technologies.	in which which which	24.
	the strength of the second	A at at	- 5 <sup>0</sup> - 5
	- a player while connected to an external amplifier	NUTE INTE MAIL	men men
	that does not allow the user to walk around while	The second	st st
	in use.	At At At	NUTE INTE
	For equipment that is clearly designed or intended	white white white y	n - 2n
	primarily for use by children, the limits of the	1 A A	st st
	relevant toy standards may apply.	LIER NUTE INLIV.	when we
	The relevant requirements are still in which it	In the co	d. A
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods	at let let it	in the
	and measurement distances apply.	when when when	26 20
10.6.1.2	Non-ionizing radiation from radio frequencies	the state	N/A
JUN 1	in the range 0 to 300 GHz	STE MIL MIL	me men
	The amount of non-ionizing radiation is regulated	20. 20. 2	st st
	by European Council Recommendation	at at set	SLIFE MUT
	1999/519/EC of 12 July 1999 on the limitation of	Inter white where we	
	exposure of the general public to electromagnetic	i de de	at at
	fields (0 Hz to 300 GHz).	ster site with and	w w
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	w w s	4
	Time-Varying Electric, Magnetic, and	t it it it	
	Electromagnetic Fields (up to 300 GHz). For hand-	white white white	In In
	held and body mounted devices, attention is	i i it	15 13
	drawn to EN 50360 and EN 50566.	Alt Alt Alt	No and



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2	IEC 62368-1	in the she	24. 2.
Clause	Requirement – Test	Result – Remark	Verdict
alle.	N N N	et alle all and a	no m
10.6.2	Classification of devices without the capacity to	o estimate sound dose	N/A
10.6.2.1	General	Not such equipment	N/A
	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.	and white white white	A SUFFER
	For classifying the acoustic output $L_{Aeq, \tau}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	white write white w	net whitek
	For music where the average sound pressure	m m m	6 st
	(long term $LAeq, \tau$ ) measured over the duration of	Tet ster street outer on the	in The
	the song is lower than the average produced by the programme simulation noise, measurements	m m m	1
	may be done over the duration of the complete	of the tet the	نام کنی
	song. In this case, <i>T</i> becomes the duration of the song.	white and white	STEK STER
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq}, r$ ) 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.	white white white white	et variet
	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.	ner water with water	NITE VINIT
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	Shi Shi A	N/A
	and the set of the set	atter intrevintite white	NUL.
	RS1 is a class 1 acoustic energy source that does not exceed the following:	20 20 20 20	t de
	- for equipment provided as a package (player	all all after after	White a
	with its listening device), and with a proprietary	the me me m	
	connector between the player and its listening	at the set set	. 1 <sup>07</sup> . 1
	device, or where the combination of player and listening device is known by other means such as	white white white	n. in
	setting or automatic detection, the $LAeq$ , $\tau$ acoustic	a at at	10 10
	output shall be $\leq$ 85 dB when playing the fixed "programme simulation noise" described in EN	WALTER WAITE WALTE W	it white
	50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that	MALTER WALLER WALLER WALL	White
	allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be	et set set we	IN TEX N
	≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme	when when we	St 5
	simulation noise" described in EN 50332-1. – The RS1 limits will be updated for all devices as	white white white	ne sur
	per 10.6.3.2.	A A A	15 19



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	with white with	P-
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the $LAeq, \tau$ acoustic output shall be $\leq 100 \text{ dB}(A)$ 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 $\leq 150 \text{ mV}$ (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	and the and the and	antic antick and
10.6.2.4	RS3 limits	The second second	N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	WAITER WAITER WAITER W	NUTE WALL
10.6.3	Classification of devices (new)		Ń/A
10.6.3.1	<b>General</b> Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new)	Mr. M. C.	N/A
and	<ul> <li>RS1 is a class 1 acoustic energy source that does not exceed the following: <ul> <li>for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.</li> <li>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.</li> </ul> </li> </ul>	Antick antick antick and	AND SALES
10.6.3.3	RS2 limits (new)	mill while while	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player	ANALTER MALTER MALTER M	whitek

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
and the and	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	and an	
10.6.4	Requirements for maximum sound exposure	with write write write	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A
10.6.4.2	Protection of persons	At A A A A A A A A A A A A A A A A A A	P
	Except as given below, protection requirements for parts <b>accessible</b> to <b>ordinary persons</b> , <b>instructed persons</b> and <b>skilled persons</b> are given in 4.3.	fer white white white	win fet wint
	NOTE 1 Volume control is not considered a <b>safeguard.</b>	WALTER WALTE WALT	mur mur
	Between RS2 and an <b>ordinary person</b> , the <b>basic</b> <b>safeguard</b> may be replaced by an <b>instructional</b> <b>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	whitet whitet whitet w	ET EX WALTER
	instruction manual. Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	and some some some some	whit at whit
	The elements of the <b>instructional safeguard</b> shall be as follows:	watter watter watter	INLIES WILLIES
	- element 1a: the symbol , IEC 60417- 6044 (2011-01) - element 2: "High sound pressure" or equivalent	ALTER MALTER MALTER MA	Tet MUTERS
	wording – element 3: "Hearing damage risk" or equivalent wording	tet white white white	who who
	<ul> <li>element 4: "Do not listen at high volume levels for long periods." or equivalent wording</li> </ul>	watte while while	when when
	An equipment safeguard shall prevent exposure	The star with a	in white



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
and	<ul> <li>of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.</li> <li>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.</li> <li>NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.</li> <li>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.</li> </ul>		
10.6.5	exposed to RS3.  Requirements for dose-based systems	MILTER MAITER WALTER	N/A
10.6.5.1	General requirements	Not such equipment	N/A
	<ul> <li>Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.</li> <li>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.</li> <li>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</li> </ul>		ANN SEX ANN
L /	races, etc.	L At At At	
10.6.5.2	<b>Dose-based warning and requirements</b> 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	white white white	N/A



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2012	IEC 62368-1	Lite white white white	- apr - ap
Clause	Requirement – Test	Result – Remark	Verdict
ANNUTER AN	acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	ANTICE MUT ANTICE	save save
10.6.5.3	Exposure-based requirements	at at at 54	N/A
ANNUTER AND	<ul> <li>With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.</li> <li>The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.</li> <li>Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.</li> </ul>	and the and th	
INLIEK NI	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	and the tree	NUTER UNITER
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
	Corded listening devices with analogue input With 94 dB $LAeq$ acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be $\ge$ 75 mV.	Not such equipment	N/A
10.6.6.2	and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input	11 12 X	N/A
10.0.0.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	WALTER WALTER WALTER	



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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
whitek w	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq$ , $\tau$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of - 10 dBFS.	antiet antiet antiet an	antifet antifet a
10.6.6.3	Cordless listening devices		er N/A €
whitek whitek whitek whitek whitek	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 $\leq$ 100 dB with an input signal of -10 dBFS.	and and a set and	AND ANTER AN
10.6.6.4	Measurement method	white white white	√ <sup>™</sup> N/A <sup>→</sup>
NUTEX NO	Measurements shall be made in accordance with EN 50332-2 as applicable.		strek Nirek and
3	Modification to the whole document		Р



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24			de la	EC CIEC	C 62368-1	he the	$b_{\mu} = 2\eta_{\mu} = 2\eta_{\mu}$	
Clause	R	equirement -	- Test	m	20. 20.	Result – Rema	ark	Verdict
Whitek w	D		"country" note	s in the refe	rence docum	nent according	to the following	P
	2-	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	14
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	With M
	- 11	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	Cet whi
	19.25	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	et intre
	с. 	Table 13						-Su at
	5	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	Where.
	1. 1. 1.	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	N-JEX W
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	Set whit
	10-24	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	K WALTER
	54	<del>10.6.1</del>	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NUTER .
	¢-	Y.4.5	Note					er er
. and	10	S.			107 - K	V SV A	5 10 <sup>5</sup> 4	in at
	Μ	odification	to Clause 1					Р
WALL .	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.				P S			
<u>~~~</u>		odification	to 4.Z1					Р



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IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c.	Not directly connected to the mains	N/A		
	<ul> <li>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):</li> <li>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;</li> <li>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</li> </ul>	et whitek whitek whitek	s where su		
	protective devices in the building installation; c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , 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.	1 it at at .	n <sup>litek</sup> wi litek vinitisk		
et white	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type</b> <b>A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	white white whitek	ALTER N		
6	Modification to 5.4.2.3.2.4		N/A		
5.4.2.3.2.4	Add the following to the end of this subclause:	No connection to external	N/A		
Jet .	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.	circuit.	- NUTER		
7	Modification to 10.2.1				
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A		
8	Modification to 10.5.1		N/A		



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
sur		En all' white white	Mr. Mr.	
	<ul> <li>Add the following after the first paragraph:</li> <li>For RS 1 compliance is checked by measurement under the following conditions:</li> <li>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.</li> </ul>	and	N/A	
	<ul> <li>NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.</li> <li>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.</li> </ul>	ANTER MATTER MATTER	ALTER WALTER	
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	whitek whitek whitek	whitek whitek	
	For RS1, the dose-rate shall not exceed 1 $\mu$ Sv/h taking account of the background level.	for sumine sumine sumi	et unifet whi	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the state of the		
9	Modification to G.7.1		N/A	
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	White white white	N/A	
10	Modification to Bibliography		Р	



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Les Mer	m m r	. st	IEC 62368-1	inter antice and and a	ten the
Clause	Requirement – Test	MALIT	mer me m	Result – Remark	Verdict
- mar -	m. m. a		1 1 5	and a state of the share	m.
L A	Add the following not	tes for th	e standards indicated		P
intre M	IEC 60130-9	NOTE	Harmonized as EN 601;	30-9	in the
20. 2	IEC 60269-2		Harmonized as HD 602		
18t . 5	IEC 60309-1	NOTE	Harmonized as EN 603(	09-1.	JET J
an in	IEC 60364	NOTE	some parts harmonized	in HD 384/HD 60364 series.	she she
A A	IEC 60601-2-4		Harmonized as EN 6060		at the
MEN NUTE	IEC 60664-5		Harmonized as EN 606		Ster Martin
-20	IEC 61032:1997		Harmonized as EN 610		
at the	IEC 61508-1		Harmonized as EN 6150		of set
we saw	IEC 61558-2-1		Harmonized as EN 615		with a
	IEC 61558-2-4 IEC 61558-2-6		Harmonized as EN 6159 Harmonized as EN 6159		1
Set is	IEC 61643-1		Harmonized as EN 6164		NUTE IN
the an	IEC 61643-21		Harmonized as EN 6164		24. 24
1 10	IEC 61643-311		Harmonized as EN 6164		10 10
alle week	IEC 61643-321		Harmonized as EN 6164		nor when
3	IEC 61643-331	NOTE	Harmonized as EN 6164	43-331.	1 4
the state					St 55
11	ADDITION OF ANNEXES				Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)				Р
4.1.15	5 Denmark, Finland, Norway and Sweden Not directly connected to the				N/A
STEEL WALTER	To the end of the sub added: Class I pluggable ed connection to other e if safety relies on con if surge suppressors network terminals and marking stating that t connected to an earth The marking text in th be as follows: In Denmark: "Apparate stikkontakt med jord s stikproppens jord." In Finland: "Laite on varustettuun pistoras In Norway: "Apparate stikkontakt" In Sweden: "Apparate	quipmen quipmen nection t are conn d <b>access</b> he equip ned <b>mair</b> ne applic ne applic atets stikp som give liitettävä iaan" et må tilk	At type A intended for t or a network shall, o reliable earthing or ected between the sible parts, have a ment shall be ns socket-outlet. able countries shall prop skal tilsluttes en r forbindelse til suojakoskettimilla oples jordet	and and an area area area.	S NUTER SALLER
4.7.3	United Kingdom				N/A
DUTER WALTER	To the end of the sub added:	clause th	ne following is	and wonther wonther wonther w	NIEL MALTE
S SUNTER	The torque test is per complying with BS 13 assessed to the relev see Annex G.4.2 of the	863, and ant claus	the plug part shall be ses of BS 1363. Also	white white white whi	S A SINLIPER



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IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
in the		and and and and an	in the		
5.2.2.2	<b>Denmark</b> After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the	No high touch current measured.	N/A		
	limits of 3,5 mA a.c. or 10 mA d.c.	with which which which	m. m.		
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:	et wanter watte water w	nt sunt		
	For separation of the telecommunication network from earth the following is applicable:	watter watter watter was	t strek		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	mill while while while while	JAN W		
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	it whit whit whit	NI VI		
	<ul> <li>one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul>	white white white white	ot whitek		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	ALTER MALTER WALTER	W NUTEX JU		
	<ul> <li>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),</li> </ul>	Whitek whitek whitek whitek	A MAINER N		
	and	at that the winds	NITEX MALT		
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	whe where white	ret white		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	ALTER WALTER WALTER WALTER	WALLER W		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	tot water water water	un vint		
	<ul> <li>the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3</li> </ul>	which which which which	et whitet		



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IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
sulles .	Mr. W. S. S. A. S. M. S.	and the public supplies	mer m		
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	the state with the	NUTEX MULTER		
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	LIEX WILLEX WALLEX WAL	ret whitek w		
et white	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.	et whilet whilet while	while whi		
5.5.2.1	Norway	t alt set set	N/A		
	After the 3rd paragraph the following is added:	which which which	and the set		
INCT W	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	marter antifer antifer an	er int		
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A		
	To the end of the subclause the following is added:	the stret suret sources	white white		
	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.	whitet whitet whitet	MUTER MALTER		
5.6.1	Denmark	No such equipment.	N/A		
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	Set white white white	winter white		
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WALLEY WALLEY W	NUTE MUTE		
5.6.4.2.1	Ireland and United Kingdom	a at the a	N/А.		
	After the indent for <b>pluggable equipment type A</b> , the following is added: - the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.	et antiet antiet antie	whitek whit		
5.6.4.2.1	France	t the star star	N/A		
NUTEX WAY	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	white white white	tret untret w		
5.6.5.1	To the second paragraph the following is added:	are white white white	N/A		
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	t wontret wontret wontret	white white		



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
str	IN IN I A LAT I	and the south south	me me	
5.6.8	<ul> <li>Norway</li> <li>To the end of the subclause the following is added:</li> <li>Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is</li> </ul>	antifet wattet wattet	P	
<u> </u>	accepted.	the with white white	-me me	
5.7.6	DenmarkTo the end of the subclause the following is added:The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	whitek whitek whitek	MALTE WALTER	
5.7.6.2	Denmark	at at the	P	
	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.	whitek whitek white	wintifet whit	
5.7.7.1	Norway and Sweden	Not such system.	• N/A	
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	ALTER MALTER WALTER	WALTER WALTER	
	external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	LIET WALLET WALLET WA	Tet Waret W	
	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:	et whitet whitet white	white white	
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	MALE WALLEY MALLEY W	Nifet anifet.	
	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)"	Tex whitek whitek white	NALITY NALITY	
	NOTE In Norway, due to regulation for CATV-installations, and	with the states	no n	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
when .	M. M. S. A Alt of	A ALTER AND MALE AND	- an	
	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.	white multiply white white	* whitek	
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	when white white white	Whitek W	
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	whitek whitek whitek wh	E Et white	
nts worth	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 medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	Antice while while while	NUTEX NUT	
8.5.4.2.3	United Kingdom	No external circuits.	N/A	
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	set and and and an area of	WALTER WA	
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A	
B.4	The following is applicable: To protect against excessive currents and short- circuits in the primary circuit of <b>direct plug-in</b> <b>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</b> <b>equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	mains	NUTER NUT	
G.4.2	Denmark	Not directly connected to the	N/A	
	To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided	mains	N/A	
	with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	white white white	THE WALTER	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
WALTER N	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	antifet annifet antifet antifet	* owner	
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	et whitet whitet whitet	water w	
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	WALLEX WALLEY WALLEY WALLEY	WALTER .	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Tet whitet whitet whitet	In JEX JU	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 5a or DK 1-7a	A WALTER WALTER WALTER WA	A MALIER	
	Justification:	Mr. S. A. At	Stor	
in all	Heavy Current Regulations, Section 6c	and and and a	2 m 2	
G.4.2	United Kingdom	Not directly connected to the	N/A	
	To the end of the subclause the following is added:	mains	n' un	
whitek whi	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	whitet whitet whitet white	aniret aniret	
G.7.1	United Kingdom	at net ster ster of	N/A	
	To the first paragraph the following is added:	wat wat we we		
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	water water water water	et suntret suntret maret sun	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	watter watter watter wa	Jet whit	



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IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	and and and and and and and	N/A		
G.7.2	Ireland and United KingdomTo the first paragraph the following is added:A power supply cord with a conductor of 1,25 mm²is allowed for equipment which is rated over 10 Aand up to and including 13 A.	White white white white	N/A		
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)				
10.5.2	Germany         The following requirement applies:         For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.         Justification:         German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.         NOTE Contact address:         Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig.         Tot to 40 500 European the two (menunth december 2002)	No CRT within the equipment.	N/A		
ZD	Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I	FLEXIBLE CORDS (EN)	Р		



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n m		JEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Cladoo			

Type of flexible cord		signations
	IEC	CENELEC
PVC insulated cords	1	
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		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	нозрv4-н
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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m	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical e	nergy source	es		4 M	N/A
Supply Voltage	Location (e.g.	Test conditions	Test conditions Parameters				ES Class
	tage circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
+ let set set a		Normal	5.0VDC		SS	DC	ES3
5VDC	Input circuit	Abnormal		JER THIS	men m	the all	m
WALTER W	N CANNER WALTE	Single fault – SC/OC	M - M	t Set	LIEK NY	et ret	WALTER
dt i	at the the	Normal	4.2VDC	m - n	SS	DC	ES1
4.2VDC	Earbud battery	Abnormal	at - 5th	STAT N	San Marine	mer m	1 1
JEK MITE	Milet White W	Single fault – SC/OC	- 41°	su <u>-</u> su	t Tet	NUTER UNIT	et mi
c A	at at a	Normal	4.2VDC	Vr 742	SS	DC	ES1
4.2VDC	Charging box	Abnormal	<i>it</i>	et - et	JA	LE JALIE	MALIE
	battery	Single fault – SC/OC	en	<u></u>		t Jet	NLIEK

Supplementary information:

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

3) Test Conditions:

Normal –Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8	TABLE: Working	g voltage measur	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
Free Mer	white white	m -m	1 - A	dd	THE NUM INTERNA
- 	the state	Tet -Tet	WILL BURN	mm.	AN AN - A
Suppleme	ntary information:				

5.4.1.10.2	1.2 TABLE: Vicat softening temperature of thermoplastics						
Method			ISO 306 / B50	et niter			
Object/ Part No./Material		Manufacturer/trademark	Thickness (mm) T soften		ing (°C)		
A WILL	mer mer m	1 - 15 At	Jet Jet Niles	Marth M	an whi		
Supplemen	tary information:						
JAN S	ne m m	A St S	et 10 50	NUT IN	ant		

5.4.1.10.3 **TABLE:** Ball pressure test of thermoplastics

N/A



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m		IEC	62368-1					
Clause	Requirement	equirement – Test			Result – Remark			
Mr.	24. 26.	1 1 A	St 50	5 . S	and when	M	- m-	
Allowed im	pression diame	eter (mm)	:	≤ 2 m	m	d.	_	
Object/Part No./Material		Manufacturer/trademark	Thickness (mm)		Test temperature (°C)		oression eter (mm)	
1 - The main	mer me	- which which which		JEt	NUTER INLIEU NO	LIE N	W. mr.	
Supplemen	ntary information	ו:						
in the	when the	24. 24.	de 1	dr.	ST 59 5	191	an an	

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)
· · · · ·	d-	Set-	N.1.1.	nin - mi	4	4	-m	
Supplementary information:								

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

5.4.4.2	TABLE: Minimum distance through insulation         N/						
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)		
174-1 MAL	194 194	· · · ·	. dt - dt -	NITE MI	mr. m		
Supplemen	tary information:						
*See also s	ub-clause 5.4.4.9		15 19 5	and a straight of the	when when		

<u>г</u>					
E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
s st	the mine	The share	- mr	The chi	"
,		d - tet tet mile	al - the trat white manual we	al - the trat with the the second	

5.4.9	TABLE: Electric strength	tests		N/A
Test volta	ge applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functiona	1. Mu m	at let let let	MUTER WALTE WAT	in more m
	et set site with a	ar a - m m	<u> </u>	- 1 - 3
Basic/sup	plementary:	the set stat with a	LIFE WALL WALL	me m
÷	TEX NIFE MITER WA	- m m	The st st	
Reinforce	d:	- Tet Tet wifet with	White white	mer mer
- 14	with with only and	nu -nu -n		A - A
Routine T	ests:	the state state with	with which we	1 1



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		IEC 62368-1		
Clause	Requirement – Test	white sales sa	Result – Remark	Verdict
silve	the the second	1 I S	the with min when we	the start is

-----Supplementary information:

5.5.2.2	2.2 TABLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class
n. 74	24	i st st	Normal	white wh	mr. m	- 2 <u>1</u>
WALTER WAL	Et whit	white white a	Single fault: SC/ OC	ALTER MIT	S MITTER MALT	et whitet w

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	ctors and terminati	ons	N/A S	
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
		JE - MUL			J. J.
Supplemen	tary information:				

5.7.4	TABL	E: Unearthed acces	ssible parts				N/A	
Location		Operating and	Supply	I		ES class		
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current Free (A <sub>rms</sub> or A <sub>pk</sub> ) (Hz			
L/N to secondary		Normal		. ITEK NITEK	INLIE TONIL	n		
terminals		Abnormal: overload	an an i	at the	Tet NITET IN	TEK	et	
		Single fault: SC/ OC	and the second	a w <u>r</u> w	*	*	MUTER	
Supplemen	ntary info	irmation:						
SC= short	circuit; C	DC= open circuit	24. 11	4	- 15 It	500	STE O	

5.7.5 TABLE: Earthed accessible conductive part						
Supply volta	age (V)	- at the state of	et intre int	mer me	_	
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Distri	ibution System	[]TN_[]TT_[]IT_[]				
Location		Fault Condition No in IECTouch currentComm60990 clause 6.2.2(mA)			nt	



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2m	State of the state	IEC 62368-1	it white white white	211. 24
Clause	Requirement – Test	tr. M. W.	Result – Remark	Verdict
	11. 10. 1.			

- A A A A A	with the me	10 - 10 -	1 74 14
Metal enclosure	neutral open	0.024	ES1
Supplementary Information:			
itte with white when a	the star	1 1 5	the other other soft

	TABLE: Backfeed safeguard in battery backed up supplies							
		Supply voltage (V)	Operating and fault condition	Time (s) Open-circuit voltage (V)		Touch current (A)	ES Class	
-m m	24		1 -1 5	at star	NUT - MUT	mr - m	-11-	

6.2.2	TAI	BLE: Power source	e circuit classif	ications			P
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
5V Input cir	rcuit	Pin + to -	5. 1 <del>15</del> . 2	/		5S	PS1
Earbud bat	tery	Output pin + to -	3.7	0.52	1.93	_√` 5S √`	PS1
Charging box battery		Output pin + to -	3.7	0.31	1.15	5S	PS1
Supplement	ary in	formation:					
		= short circuit; OC= r 3 s for PS1 and m		s for PS2 and F	2S3.	and white a	Intit water

\* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1	TABLE: Determ	ination of Arcing PIS			N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
	NUTER MUTE	WITT ATT AND		at the a	t . 5 <sup>45</sup> . 5
Supplement	ary information:	·		·	
Supplement	ary information:	in automatic		s s d	. At

6.2.3.2	.2.3.2 TABLE: Determination of resistive PIS					
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No		
All primary circuits/comp	ponents	when the state with	et milet while while wh	Yes (declaration)		

Supplementary information:

All circuits are considered as resistive PIS;

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

If a separate voltmeter and ammeter are used, the product of  $(VA \times IA)$  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



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20	the second second	IEC 62368-1	In In
Clause	Requirement – Test	Result – Remark	Verdict

30 s after introduction of the fault.

8.5.5	TABLE: High	pressure lamp	NITER WALT WALL	mer mer a	N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- mr	me m		at the state of	MALIE WALL	mr m
Supplemen	tary information:				

9.6 TABL	E: Temper	ature meas	suremen	ts for wirel	ess power	r transmitte	ers √	N/A
Supply voltage (V)			m	r. m.	24 .	50 S.	4 . A	
Max. transmit pow	er of transr	nitter (W)		* STEK	WITER IN	ites white	white	
			receiver and with receiver and distance of 2 m					
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
				<u> </u>	1200 C	m - n		
Supplementary info	ormation:			·	<u> </u>	·		
			i si	N 199		a la	10 A	

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temp	perature m	easureme	ents				NUT MALTER
Supply volta	ıge (V)		:	_or1) -s	2)	24		
Ambient terr	nperature durin	g test <i>T</i> <sub>amb</sub> (	°C):	25.0	25.0	* <u>54</u>	NUTE - M	
Maximum measured temperature <i>T</i> of part/at:					Т	(°C)		Allowed T <sub>max</sub> (°C)
Surface of E	arbud battery	1. At	Set a	37.4	31.3	m -m		45
Surface of Charging box battery				31.7	27.9		No. of the second second	45
Internal wire				30.0	27.7	6. 2 <u>4.</u>		80
Internal encl	osure of Earbu	d 👘		29.2	29.4	St 500	nulle ut	Ref.
External enc	losure of Earbu	id 🦿 🖉	mun	28.9	27.8			77
Internal encl	osure of Chargi	ing box	st	35.5	27.5	- <u></u>	PULL MALL	Ref.
External enc	losure of Charg	ging box	sure a	32.4	27.1	~ `	+ - +	77
Botton	an an		det .	25.0	25.0	In the Topic	and the second s	77
Temperature winding:	e T of	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
2	at at	A 5		an <u>r</u>	h 21	70	-	1 -1

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Clause	Requirement – Test	Result – Remark	Verdict

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

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

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

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

B.2.5	τ/	ABLE: In	put test					A A A A P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	¢ - З	0.19	0.2	0.95	WALTER	WILTE	WALTE	Powered by 5VDC with empty battery(at battery charging mode)
4.2VDC	-	0.21	et ret	0.89	ountitet .	UNLIEK.	miret v	Charging box battery (Discharging mode with fully charged battery)

Supplementary information:

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

ABLE: Abnor	mal operating	g and fau	lt condit	ion tests	the set is	Р
erature T <sub>amb</sub> (°	°C)		<u></u>	: See b	elow	
for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng:		
Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	
SC	4.2	30min	merer w	0.019	Speaker no voice, no dam hazard.	age,n
VDC with emp	oty battery(at b	pattery cha	arging mo	ode)	intite white white wh	~
SC	5VDC	7h		0.12	Unit normal working, no damaged, No hazard.	it win
SC	5VDC	10mins	- SUM	0.01	Unit shut down, no damag hazard.	ed, No
i-ion Battery ([	Discharging m	ode with	fully char	ged battery)	Mr. M. M.	4
SC	4.2VDC	10min	J. F.	50° 0,50°	Unit shut down, no damag hazard.	ed, No
SC SC	4.2VDC	7h	a	0.081	Unit shut down, no damag hazard.	ed, No
	erature T <sub>amb</sub> (s for EUT: Man Condition SC VDC with emp SC SC i-ion Battery (I SC	erature T <sub>amb</sub> (°C)         for EUT: Manufacturer, mo         Condition       Supply voltage (V)         SC       4.2         VDC with empty battery(at B         SC       5VDC         SC       5VDC         i-ion Battery (Discharging m         SC       4.2VDC	erature T <sub>amb</sub> (°C)         for EUT: Manufacturer, model/type, or         Condition       Supply voltage (V)         SC       4.2         SC       4.2         VDC with empty battery(at battery chains         SC       5VDC         SC       10mins	erature T <sub>amb</sub> (°C)         for EUT: Manufacturer, model/type, outputrati         Condition       Supply voltage (V)       Test time       Fuse no.         SC       4.2       30min          VDC with empty battery(at battery charging mode       SC       5VDC       7h          SC       5VDC       10mins          i-ion Battery (Discharging mode with fully char       SC       4.2VDC       10min	See b         for EUT: Manufacturer, model/type, outputrating:          Condition       Supply voltage (V)       Test time       Fuse no.       Fuse current (A)         SC       4.2       30min        0.019         VDC with empty battery(at battery charging mode)       SC       5VDC       7h        0.12         SC       5VDC       10mins        0.01         i-ion Battery (Discharging mode with fully charged battery)       SC       4.2VDC       10min        0	erature T <sub>amb</sub> (°C)       See below         for EUT: Manufacturer, model/type, outputrating:          Condition       Supply voltage (V)       Test time       Fuse no.       Fuse current (A)         SC       4.2       30min        0.019       Speaker no voice, no dam hazard.         VDC with empty battery(at battery charging mode)       SC       5VDC       7h        0.12       Unit normal working, no damaged, No hazard.         SC       5VDC       10mins        0.01       Unit shut down, no damag hazard.         SC       5VDC       10mins        0.01       Unit shut down, no damag hazard.         SC       4.2VDC       10min        0       Unit shut down, no damag hazard.

<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.

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



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

standard after restoration of normal operating conditions.

3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pro	otection circu	its f	or batterie	es provid	ed v	vithin	the eq	uipment	4	Р
Is it possible	to install the	battery in a re	vers	e polarity	position?.	,i:		d is	et det		
					C	harg	ging				
Equipment S	Specification		Vo	ltage (V)					Current (A)		
		At At		5Vdc	with	4	2	w.	0.2A		A
					Battery	/ spe	cifica	tion			
		Non-recharge	able	batteries			Rec	chargeal	ole batteries		
Manufacturer/type		Discharging current (A)	g Unintentional Charging			ent (A)	Discharging current (A)		Reverse charging current (A)		
Henan Sa Energy Co.,L	mrtt New	ALTER ALTE	See table B.2.5			e table .2.5	See table B.2.5	2			
Note: The tes	sts of M.3.2 a	re applicable o	only v	when abov	e appropri	iate	data i	s not av	ailable.	<u> </u>	
Specified ba	ttery tempera	ature (°C)			<u> </u>				10-45	Ļ	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltag (V)	e Obs	er\	vation
Battery (charge base)	Capacitor SC	Charge	¢	7h	NITET WA	5 <sup>61</sup>	0 VINL	0	Unit shutd immediate Recoveral damaged,	ely. ble	No
Supplementa	ary informatio	n:									
Abbasidadaa				land to NIL	in a standar		. de	NIC		<b>6</b> 11.	

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

M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	ontaining a se	econdary lithium	P	
Maximum s	pecified o	charging voltag	ge (V)	<u>+, (</u>	: 4.0	white white whe		
Maximum s	pecified of	charging curre	nt (A)	n n	: 5	1 1 5		
Highest specified charging temperature (°C):						me me		
Lowest spe	cified cha	arging tempera	ture (°C)		: 10	t set set		
Battery		Operating		Measuremen	t	Observatio		
manufacture	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)			
Lowest spec	cified cha	rging temperat	ure: 10°C (Bat	tery (earbuds)	)	1 1 5	t sit	
Shenzhen baijiaying Technology	Co.,	Normal	4.2	0.021	Battery temperature: 10°C	The battery chargin decreases	ng current	



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she i	m a				JET JIT .	NET MAL	all'	- an
Ltd / 50101:	2	Abnormal-	LIEF - NITE	-m	· · · · ·	7 4		- st
white white wh		Single fault -	et whitek	o user onis	Battery temperature: 10°C			ing current
Highest spe	cified cha	arging temperatu	ure: 45°C (B	attery (charge	base))	m. n	1. s	lo
Henan Samrtt New Energy Co.,Ltd. / 602030		Normal	4.20	0.021	Battery temperature: 60°C		e battery charging circuit op charging	
		Abnormal-			Str. Alt o	Ster Julie	and the walk walk	
MUTER WAITER WAIT		Single fault –	ren viller Kart	NUTER AND	Battery temperature: 60°C		he battery charging circuit top charging	
Lowest spec	cified cha	rging temperatu	re: 10°C (Ba	attery (earbud	s))		Ster .	NUTER ON
Shenzhen baijiaying Technology Co., Ltd / 501012		Normal	4.2	0.001	Battery temperature: 10°C		The battery charging current decreases	
		Abnormal-	JULE - MULE	n. n	2		- 1	t sit
		Single fault _	et -ret	Martin Martin	Battery temperature: 10°C		The battery charging curren decreases	
Highest spe	cified cha	arging temperati	ure: 45°C (B	attery (charge	base))	Culton 1	n .	No. 11
Henan Sam Energy Co., 602030		Normal	4.20	0.001	Battery temperature: 60.0°C		The battery charging circuit stop charging	
		Abnormal-	, A	t	Str. Alt.	STE MAIN	m	m
		Single fault –	re- <del>v</del> ne * ret	NAL - M	Battery temperature: 60.0°C		The battery charging circuit stop charging	
Supplement	tary inforr	nation:						
	pecified of	charging curren			aximum specifie d charging tem			
Q.1	TABLE	: Circuits inter	ded for inte	erconnectior	with building	wiring (LPS	6) 5	N/A
Output		andition		Time (a)	I <sub>sc</sub> (A)		S (	VA)
Circuit		ondition	U <sub>oc</sub> (V)	Time (s)	Meas. L	imit M	eas.	Limit

Supplementary Information:



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Clause	Requirement – Test	Result – Remark	Verdict

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

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est			N/
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
NUTER NO	The white	me in	-m			ret ret ret wret wret wi
20. 2.	t it	1. 1.	t still	MULTE	June - an	Mr. Mr. M.
NUTER WIT	unit.	me m	242	.t	1	t fet with sufer with
Supplementa	ary informati	on:				

T.6, T.9	TABLE: Impa	ct test	N/A	
Location/Pa	rt Material	Thickness (mm)	Height (mm)	Observation
m. m	100	at at a	it when	MITE WATE WATE WAT AND
50 5	A Star	and the second	7	at the state state of
the star			JE	The survey of the second secon
Supplement	ary information	1:		
*Test was n	erformed on pr	oduct with each so	urce listed in	table 4.1.2

Т.7	TABLE: Drop	test		N/A
Location/Par	rt Material	Thickness (mm)	Height (mm)	Observation
1. 18	t stat s	Set must work	m n	the state of the
n m	20. 20	A A	Set 5	The matter with which which which we
t at	Set Se	INLIE MALIE	m. m.	i i i it it it i
Supplement	ary informatior	. anti aunti	24. 24	<u> </u>

T.8	TA	BLE: Stress	s relief test	m	m. w.	1 A A A A	N/A
Location/Pa	ırt	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
		st st	tet aller	MUTE MALT	with	me me me	*
Supplement	tary	information:					
*Test was p	erfo	rmed on pro	duct with each sou	urce listed in t	able 4.1.2.	2 24 24 24	, it



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Olduse	Requirement – rest		Result – Remark	

	ternative method for determining	ig initiation clearances	s distances N/A	
Clearance distance between:	d Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)	
The MALL WALL	the star in the	the state states	LIET MITE - MIT W	
Supplementary informat	on:			

4.1.2	TABLE: Critical components information         P						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>		
Plastic enclosure	CHI MEI CORPORATION	PA-757(+)	HB, 80°C, Min. Thickness 1.5mm	UL 94, UL 746	UL E56070		
Charging box battery	Henan Samrtt New Energy Co.,Ltd.	602030	3.7V, 300mAh, 1.11Wh	IEC 62133- 2:2017	Report No.: TCTTJ2021 0110470ZB- BR02		
Earbud battery	Shenzhen baijiaying Technology Co., Ltd	501012	3.7V, 40mAh	IEC 62133- 2:2017	Report No.: ZKS210400 188-1		
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GDM-C3, ILM- C3	V-0, 130°C	UL 796	UL E330731		
Alternative	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL M		

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

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Photo 4



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Photo 5

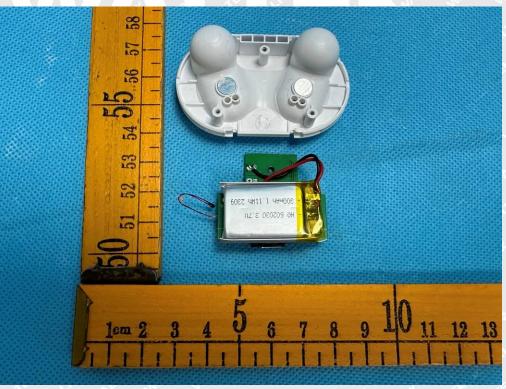


Photo 6



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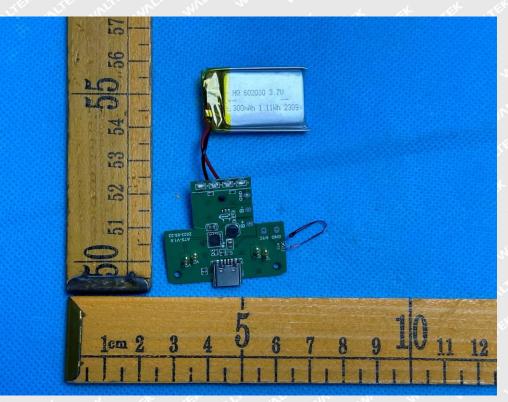


Photo 7

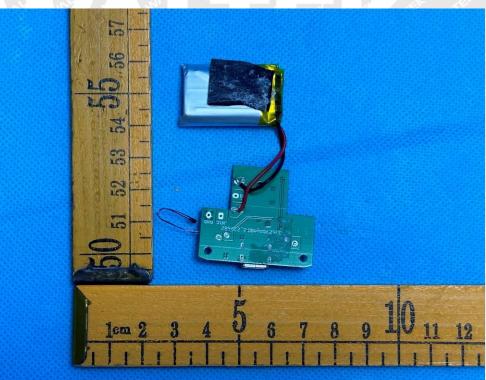
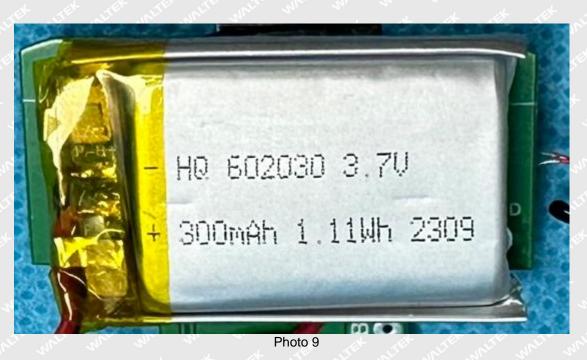


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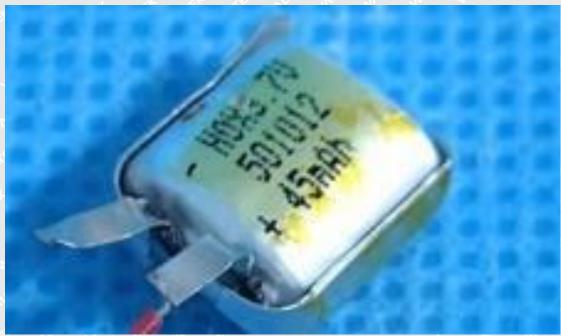


Photo 10.

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