



# **TEST REPORT**

Reference No	: 5	WTF23D11233557X1Y
Applicant	m	Mid Ocean Brands B.V.
Address	N. T. T. F. N	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	÷	114538
Address	: <	Mer when the state state white white white
Product	- - -	Wireless Power bank
Model(s)	:	MO2185
Total pages	St. C.	68 pages and 4 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		2023-11-03
Date of Test	:	2023-11-03 to 2023-11-28
Date of Issue	; ,	2023-12-08
Test Result	: 6	Pass and the second sec

Remarks:

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

## **Prepared By:** Waltek Testing Group Co., Ltd.

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Soap Hu / Project Engineer

Approved by:

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Test item description	Wireless Pov	ver bank	
Trademark	МОВ		
Model and/or type reference:	MO2185		
Rating(s):			
Remark:	Dattory. DO		
Whether parts of tests for the product ha Yes No If Yes, list the related test items and lab		contracted to other labs:	
Test items:			
Lab information:	Mr. w.	the set of the set of the set of the set	
Summary of testing:	in the	white white white white white the	
Tests performed (name of test and test All test data is derived from the CE re WTF23D11233557Y issued by WALTE	eport no.	<b>Testing location:</b> No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China	
Summary of compliance with Nationa	I Difference	s (List of countries addressed):	
white white white white white		Tex writes whites whites whites white white white	
EU Group Differences The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the applicable limit according to the specifi without applying the measurement unce "accuracy method"). Other: (to be specified, for example	of EN IEC 62 or decisions e IEC standa fication in th certainty ("si	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> ard, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as	
EU Group Differences The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the applicable limit according to the specified by the applicable limit according to the specified to the specified by the measurement und "accuracy method"). Other: (to be specified, for example requirements apply) Information on uncertainty of measurement are of OD-5014 for test equipment and applicable	of EN IEC 62 or decisions e IEC standa fication in th certainty ("si e when requi rement: calculated by	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> ard, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as red by the standard or client, or if national accreditation the laboratory based on application of criteria given by	
EU Group Differences  The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the applicable limit according to the specified by the applicable limit according to the specified into the specified by the measurement und "accuracy method").  Other: (to be specified, for example requirements apply)  Information on uncertainty of measure The uncertainties of measurement are of OD-5014 for test equipment and applica IECEE. IEC Guide 115 provides guidance on th the decision rule when reporting test	of EN IEC 62 or decisions e IEC standa fication in th certainty ("si e when requi rement: calculated by ation of test n he application	368-1:2020+A11:2020.	

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#### Copy of marking plate:

MOB MO2185 Input: 5Vdc/2.4A, 9Vdc/2A, 12Vdc/1.5A Output: 5Vdc/3A, 9Vdc/2.22A, 12Vdc/1.66A Wireless: 15W Battery: DC 3.7V, 4000mAh, 14.8Wh



#### 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:	
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>□ not mains connected:</li> <li>□ ES1 □ ES2 □ ES3</li> </ul>
Supply % Tolerance:	□ +10%/-10% □ +20%/-15% □ +%/% ⊠ None
Supply Connection – Type:	<ul> <li>pluggable equipment type A -         <ul> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> </ul> </li> <li>pluggable equipment type B -         <ul> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector is other: not Mains connected</li> </ul> </li> </ul>
Considered current rating of protective device as part of building or equipment installation:	□ UK: 13 A; Others: 16 A; Location: □ building □ equipment ⊠ N/A
Equipment mobility::	<ul> <li>movable</li> <li>hand-held</li> <li>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 □ Not classified □
Access location:	N/A     □ restricted access area       □ outdoor location     □
Pollution degree (PD)	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	25°C 🔲 Outdoor: minimum°C
IP protection class:	⊠ IPX0 □ IP
Power Systems:	□ TN □ TT □ ITV L-L ⊠ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	⊠ 0.134kg

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POSSIBLE TEST CASE VERDICTS:	white white white white white and white
- test case does not apply to the test object	: N/A
- test object does meet the requirement	: P (Pass)
- test object does not meet the requirement	: F (Fail)
TESTING:	and all all and the set set
Date of receipt of test item	: See covers page.
Date (s) of performance of tests	: See covers page.

#### **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  $\square$  comma /  $\boxtimes$  point is used as the decimal separator.

#### **GENERAL PRODUCT INFORMATION:**

#### **Product Description**

- 1. The EUT covered by this report is a Power bank used as information apparatus.
- 2. The manufacturer specified maximum ambient temperature is 25°C. The specified altitude is up to and including 2000 m above sea level.
- 3. The all electronic components are mounted on PWB and housed in a plastic enclosure which is secured by ultrasonic welding, all circuits complied with ES1 and PS1, PS2, no other circuit existed.

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#### **Model Differences**

#### N/A

#### Additional application considerations – (Considerations used to test a component or subassembly)

Report No.	Modification Description	Comment
Ref. No. WTF23D11233557Y, dated 2023-11-28.	Original test report.	-
Ref. No. WTF23D11233557X1Y, 2023- 12-28. (updated)	Amended the photo and the Clause 6, and Schedule 4.1.2.	No tests are requred for this change.



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	N/A <	
ES1: Lithium Cell output	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	
PS2	Battery circuits	Equipment safeguard (e.g., no ignition occurs)	Equipment safeguard (e.g., control of fire spread)	N/A	
PS2	Output circuits	Equipment safeguard (e.g., no ignition occurs)	Equipment safeguard (e.g., control of fire spread)	N/A	
7	Injury caused by hazardo	us substances			
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A M	N/A	N/A	N/A	_^ <sup>™</sup> N/A√	
8	Mechanically-caused inju	ry			
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part Safeguards				
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	⊳ N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part Safeguards				
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED for indicating	Ordinary	N/A	N/A S	N/A	

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#### ENERGY SOURCE DIAGRAM

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

 ⋈
 ES
 ⋈
 PS
 ⋈
 MS
 ⋈
 TS
 ⋈
 RS

 See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS	6	P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	N <sup>P</sup> P
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	P SP SP
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)	P
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	- 2 M. M.	N/A
4.4.3.2	Steady force tests	and the state of	N/A
4.4.3.3	Drop tests	L. Mr. M. M.	N/A
4.4.3.4	Impact tests	it the wet with milet and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
in me	Glass impact test (1J)	with aller white white	N/A
t st	Push/pull test (10 N)	s we then	⊘-N/A
4.4.3.8	Thermoplastic material tests	VIEW WITE WALTE WALT WIT	N/A
4.4.3.9	Air comprising a safeguard	a de de de	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	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	we also an an	Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	Р
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	A. B.



N/A

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**Fixing of conductors** 

4.6

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Clause	Requirement – Test	Result – Remark	Verdict	
when	condition	WATER WITT WAT WAT N	t st	
white w	No harm by explosion during single fault conditions	(See Clause B.4)	P	

See below

	Fix conductors not to defeat a safeguard	up mu mu	N/A
er intre	Compliance is checked by test	ret stet stret wiret al	N/A
4.7	Equipment for direct insertion into mains socket–outlets		
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	when the second second	N/A
4.8 📣	Equipment containing coin/button cell batteries	S LIFE ALTER MAIN MILLE	N/A <
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	er mer mer mer	N/A
4.8.3	Battery compartment door/cover construction	et aret after outer of	N/A
*	Open torque test	Mr. M. A.	N/A
4.8.4.2	Stress relief test	street wheet south white	N/A
4.8.4.3	Battery replacement test	and the second second	N/A
4.8.4.4	Drop test	white white	N/A S
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test	iter white white white w	N/A
4.8.5	Compliance	i to the state	⊘- N/A
m	30N force test with test probe	white white white white	N/A
Set .	20N force test with test hook	a de de de	N/A
4.9	Likelihood of fire or shock due to entry of cond	uctive object	P
4.10	Component requirements	at at set set	N/A
4.10.1	Disconnect Device	still want want want	N/A
4.10.2	Switches and relays	A AT AT AT	N/A

5	ELECTRICALLY-CAUSED INJURY		
5.2	Classification and limits of electrical energy sources         ES1, ES2 and ES3 limits		P
5.2.2			P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	No such capacitors	N/A S
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	the set set when	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
			Tronulot
5.3	Protection against electrical energy sources	Mr. Mr. M.	P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	white white white white	P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	wet wet with white	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	at all set all	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
d+	Accessibility to outdoor equipment bare parts	Mr. Mr. M.	N/A
5.3.2.2	Contact requirements	where miles while while	N/A
1 1	Test with test probe from Annex V	su in a st st	
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIEV INTERNITE WALT	N/A
5.3.2.2 b)	Air gap – distance (mm)	i i at at	N/A
5.3.2.3	Compliance	it while while when w	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	while while while while	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	a pur sur	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)	NUT PN
5.4.1.5	Pollution degrees	i to the tot.	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	we the true true	N/A
5.4.1.5.3	Thermal cycling test	NUTER INTERNATION	~ <sup>0</sup> N/A
5.4.1.6	Insulation in transformers with varying dimensions	in the state	N/A
5.4.1.7	Insulation in circuits generating starting pulses	NUTE NAUTE MALL MAL	N/A
5.4.1.8	Determination of working voltage	a at at at	N/A
5.4.1.9	Insulating surfaces	it whit white white w	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	maret maret would won	N/A
5.4.1.10.2	Vicat test	i tot d	N/A
5.4.1.10.3	Ball pressure test	White white white white	N/A
5.4.2	Clearances	a at at at	N/A
5.4.2.1	General requirements	LTE WALL WALL WALL	N/A
k whitek	Clearances in circuits connected to AC Mains, Alternative method	et milet milet milet m	N/A
5.4.2.2	Procedure 1 for determining clearance	in a star	N/A
mr. m	Temporary overvoltage	the she will whit	



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Clause	Requirement – Test	Result – Remark	Verdict
all a start	NT SUT ST AT 5	et alle and and and	un min
5.4.2.3	Procedure 2 for determining clearance	m m	N/A
5.4.2.3.2.2	a.c. mains transient voltage	MUTER MALIE WALK WAS	_
5.4.2.3.2.3	d.c. mains transient voltage	s at at al	-
5.4.2.3.2.4	External circuit transient voltage	miter white which white	_
5.4.2.3.2.5	Transient voltage determined by measurement	a at at at	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	in which which which	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	white white white an	N/A
5.4.2.6	Clearance measurement	LIEK ALIEK MUTER MAL	N/A
5.4.3	Creepage distances	an an a st	N/A
5.4.3.1	General	LIEK NITE MUTE WAITE	N/A
5.4.3.3	Material group	the state	_
5.4.3.4	Creepage distances measurement	Et INTER WALTE WALTE	N/A
5.4.4	Solid insulation	a at at	N/A
5.4.4.1	General requirements	white white white wh	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation	and when any	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	an when when when	N/A
5.4.4.6	Thin sheet material	at not onet whet a	N/A
5.4.4.6.1	General requirements	MUT MUT MI 20	N/A
5.4.4.6.2	Separable thin sheet material	The state with and	N/A
	Number of layers (pcs)	me me me	N/A
5.4.4.6.3	Non-separable thin sheet material	tiet tiet aller aller ante	N/A
st st	Number of layers (pcs)	n shi n si st	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	the write write write	N/A
5.4.4.6.5	Mandrel test	+ tet stat states	N/A
5.4.4.7	Solid insulation in wound components	MULT MILL VAL	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	WALTER WALTER WALTER WALT	N/A
TER WALTE	Alternative by electric strength test, tested voltage (V), $K_{R}$	Tet united united united	N/A
5.4.5	Antenna terminal insulation	1 A A At	N/A
5.4.5.1	General	white white white w	N/A
5.4.5.2	Voltage surge test	1 A A	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.3	Insulation resistance (MΩ)	W W	N/A
mer m	Electric strength test	NUTER WALTER WALTE	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	the tree wires	N/A
5.4.7	Tests for semiconductor components and for cemented joints	net ret set a	N/A
5.4.8	Humidity conditioning	y my an an	N/A
WALTER W	Relative humidity (%), temperature (°C), duration (h)	t watter watter watte	sunt -
5.4.9	Electric strength test	at at at	N/A
5.4.9.1	Test procedure for type test of solid insulation	white white white	N/A
5.4.9.2	Test procedure for routine test	at let set	N/A
5.4.10	Safeguards against transient voltages from external circuits	it which which we	N/A
5.4.10.1	Parts and circuits separated from external circuits	E WALL WALL WAL	N/A
5.4.10.2	Test methods	at at all	N/A
5.4.10.2.1	General	white white white	N/A
5.4.10.2.2	Impulse test	At 1 At	N/A
5.4.10.2.3	Steady-state test	- s	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	LE WALTE WALLS	N/A
5.4.11	Separation between external circuits and earth	e at at a	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	white white white	N/A
5.4.11.2	Requirements	multi white white	N/A
LIFEK WALT	SPDs bridge separation between external circuit and earth	The street street a	N/A
	Rated operating voltage U <sub>op</sub> (V)	the state of the s	
with	Nominal voltage U <sub>peak</sub> (V)	let miret while whi	- w
	Max increase due to variation $\Delta U_{sp}$	A A A	-
me m	Max increase due to ageing $\Delta U_{sa}$	WALTE WALT WALT	- mr -
5.4.11.3	Test method and compliance	at at alt	N/A
5.4.12	Insulating liquid	WALT WALT WAL	N/A
5.4.12.1	General requirements	at at at	N/A
5.4.12.2	Electric strength of an insulating liquid	the wat wat w	N/A
5.4.12.3	Compatibility of an insulating liquid	at at set is	N/A
5.4.12.4	Container for insulating liquid	Mur Mur Mur	N/A
5.5	Components as safeguards	1 1 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	aue au au au	N/A
5.5.2.1	General requirement	aret aret water with	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	at all the state	N/A
5.5.3	Transformers	me me me	N/A
5.5.4	Optocouplers	t at set set	N/A
5.5.5	Relays	mer mer mer a	N/A
5.5.6	Resistors	tet set when we	N/A
5.5.7	SPDs	and and an an	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIFEK WALTER WALTER WALTE	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	et whitek whitek whitek	N/A
Set	RCD rated residual operating current (mA)	the state	<u> </u>
5.6	Protective conductor	white white white wi	N/A
5.6.2	Requirement for protective conductors	1 1 At 5	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	and the state	N/A
5.6.3	Requirement for protective earthing conductors	or mer mer m	N/A
MUTE	Protective earthing conductor size (mm <sup>2</sup> )	at the the state	in
	Protective earthing conductor serving as a reinforced safeguard	which not not	N/A
ALL S	Protective earthing conductor serving as a double safeguard	white white white we	N/A
5.6.4	Requirements for protective bonding conductors	NETE WHITE WALL WALL	N/A
5.6.4.1	Protective bonding conductors	a at at at	N/A
2012	Protective bonding conductor size (mm <sup>2</sup> )	MALL WALL WALL	20 -
5.6.4.2	Protective current rating (A)	+ A At At	N/A
5.6.5	Terminals for protective conductors	white white white w	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	unifet waitet souther wai	N/A
TEX WALT	Terminal size for connecting protective bonding conductors (mm)	LICE MILES MALTER MALTE	N/A
5.6.5.2	Corrosion	in at at	N/A
5.6.6	Resistance of the protective bonding system	let mile while while	N/A
5.6.6.1	Requirements	a at at	N/A
5.6.6.2	Test Method	and and and and	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
ster	N N STATISTICS	ter white white white wh	200-	
5.6.6.3	Resistance (Ω) or voltage drop	the state	N/A	
5.6.7	Reliable connection of a protective earthing conductor	white white white and	N/A	
5.6.8	Functional earthing	ster street outer online	N/A	
1 0	Conductor size (mm <sup>2</sup> )	in the the second	N/A	
main	Class II with functional earthing marking	The still out white so	N/A	
. st	Appliance inlet cl &cr (mm)	Shi was	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	No and the	N/A	
5.7.2.1	Measurement of touch current	NUE WUE WALL WALL	~ <sup>0°</sup> N/A	
5.7.2.2	Measurement of voltage	and at at at	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	the water water water	N/A	
5.7.4	Unearthed accessible parts	et with mile while w	N/A	
5.7.5	Earthed accessible conductive parts	The second second	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	White white white whe	N/A	
NUT MAY	Protective conductor current (mA)	at a number of the	N/A	
1 1	Instructional Safeguard		N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	LE WALTE MALL MALL	N/A	
5.7.7.1	Touch current from coaxial cables	at let stat stat of	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	which which which will be	N/A	
5.7.8	Summation of touch currents from external circuits	while which which with	N/A	
it when	a) Equipment connected to earthed external circuits, current (mA)	NITE WAIT WALL WALL	N/A	
where	b) Equipment connected to unearthed external circuits, current (mA)	WALTER WALTER WALTE W	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
	Mains terminal ES	No battery used	N/A	
. 5 <sup>6</sup>	Air gap (mm)	at at set 50	N/A	

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



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	EN IEC 62368-	1 min white white w	
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P
6.2.3	Classification of potential ignition sources	See the following details.	50 P 55
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)	-√ <sup>1</sup> P
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	MITE P
4	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condition	tions	Р
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	tet y antife watte	N/A s
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE WATE WATER WATER O	N/A
6.4.3.1	Supplementary safeguards	e at at at i	N/A
6.4.3.2	Single Fault Conditions	WITTE WALL WALL WAT	N/A
NUTER I	Special conditions for temperature limited by fuse	. It let not une	N/A
6.4.4	Control of fire spread in PS1 circuits	water water war with	Р
6.4.5	Control of fire spread in PS2 circuits	at at set set	



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Clause	Requirement – Test	Result – Remark	Verdict	
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:	- Pet	
	I at let let set ster street and	1) Printed board: rated V-0	54	
	white white white white white white	2) Internal wires: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21.	NUNITER N	
whitek whitek	A STER WATER WATER WATER WATER WATER	<ul> <li>3) All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying with relevant IEC standard.</li> <li>4) V-0 The tape acts as fire barrier used</li> </ul>	et water	
6.4.6	Control of fire spread in PS3 circuits	the applicants white white	N/A	
6.4.7	Separation of combustible materials from a PIS	that set it	P	
6.4.7.2	Separation by distance	MALL MALL WALL WALL	N/A	
6.4.7.3	Separation by a fire barrier	V-0 of fire barrier used.	P	
6.4.8	Fire enclosures and fire barriers	See below.	Р	
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 of fire barrier used.	P.	
6.4.8.2.1	Requirements for a fire barrier	V-0 of fire barrier used.	Р	
6.4.8.2.2	Requirements for a fire enclosure	HB of fire barrier used.	Р	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	P	
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A	
6.4.8.3.2	Fire barrier dimensions	of the set states	P	
6.4.8.3.3	Top openings and properties	No top opening	N/A	
er mure	Openings dimensions (mm)	at the week out the	N/A	
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A	
white w	Openings dimensions (mm)	t with which which whi	N/A	
STEK IN	Flammability tests for the bottom of a fire enclosure	the set set set	N/A	
h = h	Instructional Safeguard	White white where the	N/A	
6.4.8.3.5	Side openings and properties	No side openings	N/A	
1 A	Openings dimensions (mm)	the man with the of	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 of fire barrier used.	P	

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Clause	Requirement – Test	Result – Remark	Verdict

6.4.9	Flammability of insulating liquid		N/A
6.5 .	Internal and external wiring	alifet marter white white	
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.	unite un
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	P. P. M
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to additional equipment		ŃР

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	JUP 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
NULLER.	Personal safeguards and instructions	J -
7.5	Use of instructional safeguards and instructions	N/A
MULTER S	Instructional safeguard (ISO 7010)	<u> </u>
7.6	Batteries and their protection circuits	P

8	MECHANICALLY-CAUSED INJURY		P
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources	when the same	Р
8.4	Safeguards against parts with sharp edges and	corners	N P N
8.4.1	Safeguards	when you we to the	Р
the wet	Instructional Safeguard:	MS1: Edges and corners of enclosure	P.M
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
nr m	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
IT WAL	Moving MS3 parts only accessible to skilled person	Liet allet mile walk a	N/A
8.5.2	Instructional safeguard:		N/A d
8.5.4	Special categories of equipment containing moving parts	at white white white wh	N/A
8.5.4.1	General	The state with a	N/A

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	EN IEC 62368-	L. M. W. Z.	<u> </u>
Clause	Requirement – Test	Result – Remark	Verdict
8.5.4.2	Equipment containing work cells with MS3 parts	white white all all	N/A
8.5.4.2.1	Protection of persons in the work cell	at set of a	N/A
8.5.4.2.1	Access protection override	mut int we we	N/A
8.5.4.2.2.1		and the state state	
	Override system	nt whe we w	N/A
8.5.4.2.2.2	Visual indicator	at the states of the	N/A
8.5.4.2.3	Emergency stop system	all all and	N/A
WALL N	Maximum stopping distance from the point of activation (m)	t white mitter white white	N/A
	Space between end point and nearest fixed mechanical part (mm)	stret stret white white	N/A
8.5.4.2.4	Endurance requirements	MI WI WI	N/A
in white	Mechanical system subjected to 100 000 cycles of operation	stret white white white	N/A
NULLE .	- Mechanical function check and visual inspection	et the state of a	N/A
	- Cable assembly:	AN AN AN	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	WALTER WALTER WALTER WALT	N/A
8.5.4.3.1	Equipment safeguards	At the state	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	a sur su	N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N):	All All Star	N/A
8.5.4.3.5	Compliance	* NITER MITER WATER WA	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
mer m	Explosion test:	NUTER MALICE MALICE MALICE	N/A
8.5.5.3	Glass particles dimensions (mm):	a at the state	
8.6	Stability of equipment	NUTER WALTE WALL WALL	N/A
8.6.1	General	MS1: Mass of the unit	N/A
- Caller	Instructional safeguard:	it's which which we we	N/A
8.6.2	Static stability	+ at at at at	N/A
8.6.2.2	Static stability test	Mart Mart Mart All	N/A
8.6.2.3	Downward force test	THE LER NEED WITH	N/A
8.6.3	Relocation stability	me me me on	N/A
IT WALT	Wheels diameter (mm):	THE STEP MITCH MUTCH	
+ 15	Tilt test	and the second	
8.6.4	Glass slide test	et nut in the white wh	N/A
8.6.5	Horizontal force test		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	Stor Stor Stor	N/A
ne m	Test 1, additional downwards force (N):	NUTER INTER WALTS WALT	N/A
IEK WALTEN	Test 2, number of attachment points and test force (N):	fet stret wiret wiret	N/A
NUTER	Test 3 Nominal diameter (mm) and applied torque (Nm)	at the state state	N/A
8.8	Handles strength	me me me	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	mer mer in m	N/A
	Number of handles:	ster strer white white	
t st	Force applied (N)	the second	×-
8.9	Wheels or casters attachment requirements	Tet white white white	N/A
8.9.2	Pull test	No such parts	N/A
8,10	Carts, stands and similar carriers	MITER MALTER MALTER WA	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test	THE MITE WALK WALK	N/A
t st	Loading force applied (N):	in a stat	N/A
8.10.4	Cart, stand or carrier impact test	et intre-white white w	N/A
8.10.5	Mechanical stability	s at at a	N/A
m. m	Force applied (N)	inter white white white	-101-
8.10.6	Thermoplastic temperature stability	to the state of	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	and the me	N/A
IN LIFE .	Instructional Safeguard:	t set set set a	S N/A
8.11.3	Mechanical strength test	mer me me	N/A
8.11.3.1	Downward force test, force (N) applied		N/A
8.11.3.2	Lateral push force test	all the the the	N/A
8.11.3.3	Integrity of slide rail end stops	Tet sifet milet milet	N/A
8.11.4	Compliance	The second second	N/A
8.12	Telescoping or rod antennas	let outer antifer and s	N/A
Å	Button/ball diameter (mm):	No such parts	/ _



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

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications	The stift with white white	N°P
9.3	Touch temperature limits	in sur in the set	Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р « <sup>1</sup>
9.3.2	Test method and compliance	See B.1.6 & B.2.3	C RIV
9.4	Safeguards against thermal energy sources	a sur and a	, P
9.5	Requirements for safeguards	iter aller with white shirt white	NР
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P.
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitte	ers of an and	Р
9.6.1	General	a ret ret ret with	Р
9.6.2	Specification of the foreign objects	(See appended table 9.6)	Р
9.6.3	Test method and compliance	: (See appended table 9.6)	P

10	RADIATION		50 <sup>00</sup> P 55
10.2	Radiation energy source classification	were and the second second	Р
10.2.1	General classification	See below	P
	Lasers	. Mur Mur Mu	
WALLEY N	Lamps and lamp systems	: RS1: LED only for indicating use which is considered as low power application.	
r. m.	Image projectors	NUTER MALTE MALT WALT	
# 5 <sup>0</sup>	X-Ray	L A A At	
- nu-	Personal music player	NE WALL WALL WALL WALL	
10.3	Safeguards against laser radiation		
. Alt	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lam (including LED types)	ps and lamp systems	P N
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P
WALTE	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
St	Risk group marking and location	is at at at a	N/A



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	EN IEC 62368-	2. M. Co. 2.	
Clause	Requirement – Test	Result – Remark	Verdict
<u></u>	Information for safe operation and installation	me me m	N/A
10.4.2	Requirements for enclosures	JER LIER NUTER	N/A
at a	UV radiation exposure	Much Aller Car	N/A
10.4.3	Instructional safeguard	The sheet white	N/A
10.5 🦽	Safeguards against X-radiation		N/A
10.5.1	Requirements	No X-radiation	N/A
et	Instructional safeguard for skilled persons	i stat at	
10.5.3	Maximum radiation (pA/kg)	white white white	
10.6	Safeguards against acoustic energy sources	at at at	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	at the set	5 N/A
	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	r me me m	N/A
A ALIG	Unweighted RMS output voltage (mV):	et the state with	N/A
A	Digital output signal (dBFS)	The sur su	N/A
10.6.3	Requirements for dose-based systems	ister surface muster	N/A
10.6.3.1	General requirements	W. W. A.	N/A
10.6.3.2	Dose-based warning and automatic decrease	at antife on	N/A
10.6.3.3	Exposure-based warning and requirements		N/A
mer	30 s integrated exposure level (MEL30):	TEN MITE WALT WAL	N/A
t set	Warning for MEL $\geq$ 100 dB(A)	i st at al	N/A
10.6.4	Measurement methods	A MUTE WALL WALL	N/A
10.6.5	Protection of persons	1 at at	N/A
m m	Instructional safeguards	white white white	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	wifet miret antifet an	N/A
10.6.6.1	Corded listening devices with analogue input	i de de de	N/A
m	Listening device input voltage (mV)	The south solution wat	N/A
10.6.6.2	Corded listening devices with digital input	the state of the	N/A
m a	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	Main Main Mat	N/A
10.6.6.3	Cordless listening devices	a at at	N/A
W. W.	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	with white white w	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P <sup>N</sup>
B.1	General	Tet with with white white	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Pot-
B.2	Normal operating conditions	white white white white white	JULE 21



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	EN IEC 62368-	2. M. Co. 2.		
Clause	Requirement – Test	Result – Remark	Verdict	
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P	
Set at	Audio Amplifiers and equipment with audio amplifiers:	with with any state	N/A	
B.2.3	Supply voltage and tolerances	See pages 2 rating.	P P	
B.2.5	Input test	(See appended table B.2.5)	Star P.S	
B.3	Simulated abnormal operating conditions	and when when we we	Р	
B.3.1	General	(See appended table B.3)	Р	
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A	
INLIE M	Instructional safeguard	ist ist with a state	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)	P	
B.3.6	Reverse battery polarity	No such battery	N/A	
B.3.7	Audio amplifier abnormal operating conditions	Mr. m. m.		
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P	
B.4	Simulated single fault conditions		UN P 3	
B.4.1	General		Р	
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	P	
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)	IN P.N	
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	TEL P	
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A	
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P	
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Jun <sup>1</sup> P <	
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A	
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P	



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" "	EN IEC 6236	B-1. Mar and and a	m. m
Clause	Requirement – Test	Result – Remark	Verdict
B.4.9	Battery charging and discharging under single fault conditions	See annex M	P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV	radiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	War when when when a	N/A
C.2	UV light conditioning test	it set set all all a	N/A
C.2.1	Test apparatus	Mr. M. M. L.	N/A
C.2.2	Mounting of test samples	t ret set wiret wire	N/A
C.2.3	Carbon-arc light-exposure test	me me me	N/A
C.2.4	Xenon-arc light-exposure test	Tet with with south	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1 🔊	Electrical energy source classification for auc	lio signals	N/A
et 5	Maximum non-clipped output power (W)		
-m	Rated load impedance (Ω)	o re-white white white	<sup>3</sup>
t Set	Open-circuit output voltage (V)	h at at at	- 5
24	Instructional safeguard	a mer me me me	_
E.2	Audio amplifier normal operating conditions	t at at set as	N/A
60 - C	Audio signal source type	Mr. Mr. W.	
JULE MAL	Audio output power (W)	at at and and	
4	Audio output voltage (V)	2 1 40	_
St. Nruse	Rated load impedance (Ω)	if the state state with the	<u> </u>
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions	IE NITE WITTE WATER WA	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		WILL P.
F.1	General	the store of the	P
in white	Language	: English	- 2
F.2 🛷	Letter symbols and graphical symbols	No contract	
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р



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Clause	Dequirement Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P.A
F.3 📣	Equipment markings	alifet intre- white white	N P <
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	STAR P
F.3.2	Equipment identification markings	See below for details.	-√ <sup>1</sup> P
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	ALL P
F.3.3	Equipment rating markings	See below for details.	P
F.3.3.1	Equipment with direct connection to mains	the water and and a	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	S P.S
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р
F.3.3.4	Rated voltage:	See copy of marking plate.	Р
F.3.3.5	Rated frequency:	DC supply	Р
F.3.3.6	Rated current or rated power:	See copy of marking plate.	J Y P
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	when the second	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	St WALTER WALTER WALTER WAL	N/A
F.3.5.2	Switch position identification marking:	Tet tet wiret wire	N/A
F.3.5.3	Replacement fuse identification and rating markings:	white with white the	N/A
. In	Instructional safeguards for neutral fuse:	neit white white white	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	t set set site and	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	NATE MAL MAL MAR	N/A
F.3.6.1.1	Protective earthing conductor terminal:	at let let let	N/A
F.3.6.1.2	Protective bonding conductor terminals:	the man when a	N/A
F.3.6.2	Equipment class marking:	at the the state of	N/A
F.3.6.3	Functional earthing terminal marking	mu m m m	N/A



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~	EN IEC 62368-	<u> </u>	
Clause	Requirement – Test	Result – Remark	Verdict
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	t n <del>uret</del>
F.3.8	External power supply output marking:	See copy of marking plate.	Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	NIN P N
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	
F.4	Instructions	the state of	P
m a	a) Information prior to installation and initial use	See user manual	P
MITEK WAY	b) Equipment for use in locations where children not likely to be present	at white white	N/A
at de	c) Instructions for installation and interconnection		N/A
un t	d) Equipment intended for use only in restricted access area	TE WIT with with a	N/A
MALIE	e) Equipment intended to be fastened in place	the street outer initia and	N/A
d-	f) Instructions for audio equipment terminals	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
were al	g) Protective earthing used as a safeguard	white white white white	_√ <sup>™</sup> N/A
LIEX MAL	h) Protective conductor current exceeding ES2 limits	Tet Jet whet whet	N/A
1 1	i) Graphic symbols used on equipment	in the second second	N/A
white	j) Permanently connected equipment not provided with all-pole mains switch	WALTER WALTER WALTE M	N/A
WALTER	k) Replaceable components or modules providing safeguard function	MALTER WALTER WALTER WALT	N/A
Set .	I) Equipment containing insulating liquid	at at at set	N/A
the style	m) Installation instructions for outdoor equipment	WALL WALL WALL WALL	N/A
F.5	Instructional safeguards	at let let set	N/A
G	COMPONENTS		Р
G.1 5	Switches	at at at at a	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	at at at at	N/A



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	EN IEC 62368-	1. m. m. a.	
Clause	Requirement – Test	Result – Remark	Verdict
G.1.3	Test method and compliance	and when the	N/A
G.2	Relays	t set set set	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment	tet stet stret with	N/A
G.2.4	Test method and compliance	m m m	N/A
G.3	Protective devices	et stret with white	N/A
G.3.1	Thermal cut-offs	No such component	N/A
ne m	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	White white white w	N/A
LIL WAL	Thermal cut-outs tested as part of the equipment as indicated in c)	LIEK MAITEK WALTER WAL	N/A
G.3.1.2	Test method and compliance	at 12 50 50	N/A
G.3.2	Thermal links	No such component	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	WATER WAITER WAITER	N/A
Silet at	b) Thermal links tested as part of the equipment	the state	N/A
G.3.2.2	Test method and compliance	a fun an	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	No such component	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	A WALTER WALTER WALTER	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	wifet whilet whilet a	N/A
G.3.5.2	Single faults conditions:	Str. A. At	N/A
G.4	Connectors	INTER WALTE WALT WA	N/A
G.4.1 🧹	Spacings	No such component	✓ N/A
G.4.2	Mains connector configuration:	The MALL MALL MAL	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	a minet antiet antiet	N/A
G.5	Wound components	the state	N/A
G.5.1 🔊	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	a state of	N/A
G.5.2	Endurance test	NUTE WALL WALL WAL	N/A
G.5.2.1	General test requirements	a at at at	N/A
G.5.2.2	Heat run test	white white white	N/A
Set	Test time (days per cycle):	at at at	



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Clause	Requirement – Test	Result – Remark	Verdict
sure .	all with an in the set of the set	let all'et and and	which which
.lt	Test temperature (°C):	Nº Nº A	
G.5.2.3	Wound components supplied from the mains	INLIER INLIE MALLE	N/A
G.5.2.4	No insulation breakdown	1 at at	N/A
G.5.3	Transformers	INTER MATTE WALL W	N/A
G.5.3.1	Compliance method:	a at the	N/A
2Mar	Position:	lite wait wat way	N/A
- Jet	Method of protection	e at at all	N/A
G.5.3.2	Insulation	while while whe	N/A
NUTER ON	Protection from displacement of windings:	at at set	—
G.5.3.3	Transformer overload tests	white white white	N/A
G.5.3.3.1	Test conditions	set set site a	N/A
G.5.3.3.2	Winding temperatures	lor me me m	N/A
G.5.3.3.3	Winding temperatures - alternative test method	et stet when mi	N/A
G.5.3.4	Transformers using FIW	me m m	N/A
G.5.3.4.1	General	t stift shift white	N/A
	FIW wire nominal diameter:		·
G.5.3.4.2	Transformers with basic insulation only	white white	JN N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	t set set s	N/A
G.5.3.4.5	Thermal cycling test and compliance	when when when	N/A
G.5.3.4.6	Partial discharge test	at set set	N/A
G.5.3.4.7	Routine test	mer me m	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	her me in in	N/A
G.5.4.2	Motor overload test conditions	LEK JUER NUTER INT	N/A
G.5.4.3	Running overload test	In In I	N/A
G.5.4.4.2	Locked-rotor overload test	aller multi multi	N/A
de la	Test duration (days)	W. Sur A	
G.5.4.5	Running overload test for DC motors	NUTER UNITED WALTER	۸ <sup>۲</sup> ۸/۸
G.5.4.5.2	Tested in the unit	a the st	N/A
G.5.4.5.3	Alternative method	LIER MALE MALIE W	N/A
G.5.4.6	Locked-rotor overload test for DC motors	1 A A A	d N/A
G.5.4.6.2	Tested in the unit	NULL WALL WALL	N/A
1. Ar	Maximum Temperature:	1 A A	N/A

ũ **N/N** 

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01	EN IEC 62368	1	
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.6.3	Alternative method	Mar Mar Mr	N/A
G.5.4.7	Motors with capacitors	the state what	N/A
G.5.4.8	Three-phase motors	The she was	N/A
G.5.4.9	Series motors	JIEL NIEL WITCH	N/A
at at	Operating voltage:		* _
G.6	Wire Insulation	LIES INTERNITE WAT	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	I WALLS WALL WALL	N/A
G.7	Mains supply cords	that the	N/A
G.7.1	General requirements	No such component	N/A
UP NUP	Туре:	at set set a	5 <sup>40</sup> —
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):	her me me m	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Let white white white	N/A
G.7.3.2	Cord strain relief	at at the	N/A
G.7.3.2.1	Requirements	white white white	N/A
NUTER INL	Strain relief test force (N):	at the set	N/А
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	All and all all	N/A
G.7.3.2.4	Strain relief and cord anchorage material	by my my my	N/A
G.7.4	Cord Entry	14 . TEK NITEK WITE	N/A
G.7.5	Non-detachable cord bend protection	with the second	N/A
G.7.5.1	Requirements	alifet intres white a	N/A
G.7.5.2	Test method and compliance	an an an	N/A
in wh	Overall diameter or minor overall dimension, <i>D</i> (mm):	o nifet white white wh	_
NINTE	Radius of curvature after test (mm):	tet with with mile	- 10
G.7.6	Supply wiring space	and the second	N/A
G.7.6.1	General requirements	et white white white	N/A
G.7.6.2	Stranded wire	the second second	N/A
G.7.6.2.1	Requirements	MITER INTER WATE W	N/A
G.7.6.2.2	Test with 8 mm strand	in the at	N/A
G.8	Varistors	MITER WAITE WAITE WAT	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	I MATTE WALL WALL	N/A
G.8.2.1	General	1 1 st	N/Á



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0	EN IEC 62368-	2 4 4 V V	Mar P. C
Clause	Requirement – Test	Result – Remark	Verdict
G.8.2.2	Varistor overload test	me me m m	N/A
G.8.2.3	Temporary overvoltage test	wet what must must	N/A
G.9	Integrated circuit (IC) current limiters	mar mar mar	N/A
G.9.1	Requirements	No such component	N/A
at at	IC limiter output current (max. 5A):		
- mer	Manufacturers' defined drift	Tex INTEL WALTER WALTE	_
G.9.2	Test Program	1 st at at a	N/A
G.9.3	Compliance	until white white with	N/A
G.10	Resistors	at at at 5t	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	et let set set	N/A
G.10.3	Resistor test	the man me	N/A
G.10.4	Voltage surge test	at the state what is	N/A
G.10.5	Impulse test	Mr. Mr. M.	N/A
G.10.6	Overload test	with state out to south	N/A
G.11	Capacitors and RC units	with the second second	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	ite with white white	N/A
G.12	Optocouplers		
When w	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
unin un	Type test voltage V <sub>ini,a</sub> :	white white white white	
at a	Routine test voltage, V <sub>ini, b</sub> :	all and the state	
G.13	Printed boards	NUTER WITE WATE WATE	N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A
G.13.2	Uncoated printed boards	- At the set of	N/A
G.13.3	Coated printed boards	mer mer mer m	N/A
G.13.4	Insulation between conductors on the same inner surface	Whitek whitek whitek white	N/A
G.13.5	Insulation between conductors on different surfaces	Tet milet whilet whilet	N/A
t set	Distance through insulation	1 1 d dt	<∕∽ N/A
m.	Number of insulation layers (pcs)	and white white white wh	_
G.13.6	Tests on coated printed boards	the state of	N/A



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Clause	EN IEC 62368	P. 1. 2. 2.	Vardiat
Clause	Requirement – Test	Result – Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection	MIL THE ME IN	N/A
G.13.6.2	Test method and compliance	t and a the street and	N/A
G.14	Coating on components terminals	And And And And And	N/A
G.14.1	Requirements	The street out of the	N/A
G.15	Pressurized liquid filled components	the strength of the	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test	et intiger white white wi	N/A
G.15.2.2	Creep resistance test	at at at a	N/A
G.15.2.3	Tubing and fittings compatibility test	WALTE WALT WALK WALK	N/A
G.15.2.4	Vibration test	at the set set	N/A
G.15.2.5	Thermal cycling test	white white white white	N/A
G.15.2.6	Force test	at all set set	N/A
G.15.3	Compliance	MUE ME WAY	N/A
G.16	IC including capacitor discharge function (ICX)	- let stat state of	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
NUTER NAL	ICX with associated circuitry tested in equipment	at ante ante	N/A
A B	ICX tested separately		N/A
G.16.2	Tests	The still with white	N/A
t intret	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	t let set with a	
Jet .	Mains voltage that impulses to be superimposed on	when we get it	-
an an	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	and which and which	
G.16.3	Capacitor discharge test:	NUTER WALTER WALT WAT	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1%	General	TE WALL WALL WALL S	N/A
H.2	Method A	t at at at	N/A
Н.3	Method B	white white white wh	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	Tet whet whet which	
H.3.1.2	Voltage (V)	2 The star star	_
H.3.1.3	Cadence; time (s) and voltage (V):	Set outer white white w	-
H.3.1.4	Single fault current (mA):		4

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20	EN IEC 62368-	1 and when when	24 24
Clause	Requirement – Test	Result – Remark	Verdict
H.3.2	Tripping device and monitoring voltage	white white white and	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	white white white whi	N/A
H.3.2.2	Tripping device	alt att after with	N/A
H.3.2.3	Monitoring voltage (V):	the shirt with the	N/A
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED	N/A
J.1 ో	General	at net onet onet of	N/A
	Winding wire insulation:	mur mr. m. m.	
Intre with	Solid round winding wire, diameter (mm):	THE STREE MUTCH WALT	N/A
LER ALT	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> )	and with the street	N/A
J.2/J.3	Tests and Manufacturing	the wat was all	1 <u> </u>
к	SAFETY INTERLOCKS		N/A
K.1	General requirements		
white a	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		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	it was me m	N/A
K.5.1	Under single fault condition	at these stress intractions	N/A
K.6	Mechanically operated safety interlocks	me m m	N/A
K.6.1	Endurance requirement	whet whet white whit	N/A
K.6.2	Test method and compliance:	we we we at	N/A
К.7 📣	Interlock circuit isolation	atter intree indice indicts	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	et net net milet	N/A
	In circuit connected to mains, separation distance for contact gaps (mm):	with with the	N/A
NI V	In circuit isolated from mains, separation distance for contact gaps (mm)	white white white white	N/A
ne m	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A):	ret wret wret white	N/A
K.7.3	Endurance test	Stor Stor At	N/A
K.7.4	Electric strength test	et milet anite and w	N/A
L	DISCONNECT DEVICES		N/A
L)1 🔍	General requirements	with with white white	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
<u></u>		the work's work with a		
L.2	Permanently connected equipment	1 1 1 1 S	N/A	
L.3 📣	Parts that remain energized	white white white white	N/A	
L.4	Single-phase equipment	the state of the	N/A	
L.5	Three-phase equipment	MIT WALL WALL WALL	N/A	
L.6	Switches as disconnect devices	the state of the	N/A	
L.7	Plugs as disconnect devices	ist white white white al	N/A	
L.8 5	Multiple power sources	e at at set i	N/A	
201. 1	Instructional safeguard:	white white white white	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р	
M.1	General requirements	white white whe will	P	
M.2 🔨	Safety of batteries and their cells	at not not when	P	
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	P	
M.3	Protection circuits for batteries provided within the equipment	while while white wh	Р	
M.3.1	Requirements	white white white whi	~ <sup>n</sup> P	
M.3.2	Test method	the second second	P	
n w	Overcharging of a rechargeable battery	(See appended table Annex M)	P	
in white	Excessive discharging	(See appended table Annex M)	P.	
WALTER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
WALTER W	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A	
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	I I I I I I I I I I I I I I I I I I I	
M.4	Additional safeguards for equipment containin lithium battery	g a portable secondary	P S	
M.4.1	General	Mar Mar Mar Mar	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	SUNC P	
M.4.2.1	Pequirements	specified charging current.	N/A	
WI.4.2.1	Requirements	and the she in	IN/A	

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Clause	Deguirement Test	Bacult Bamark	Vardiat
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2.2	Compliance	(See appended table M.4.2)	P
M.4.3 📣	Fire enclosure:	V-0 fire enclosure used	SIL P
M.4.4	Drop test of equipment containing a secondary lithium battery	tet wet wiret mitet	JULIT P
M.4.4.2	Preparation and procedure for the drop test	he when we are	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	R
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	N <sup>III</sup> P
M.4.4.6	Compliance	Tet the aller willer	N <sup>LIT</sup> P <sub>N</sub>
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	the set of the set	N/A
M.6	Safeguards against short-circuits	WALL WALL WIT THE	Р
M.6.1	External and internal faults	at all the second	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	P
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
Set 5	Calculated hydrogen generation rate:	at at let let	N/A
M.7.2	Test method and compliance	NITE WALL WALL WALL	N/A
et stet	Minimum air flow rate, Q (m <sup>3</sup> /h)	at let tet the	N/A
M.7.3	Ventilation tests	me me me m	N/A
M.7.3.1	General	- ret ret wet with	N/A
M.7.3.2	Ventilation test – alternative 1	mer mer mer m	N/A
NUTER UNI	Hydrogen gas concentration (%):	set set whet whet	N/A
M.7.3.3	Ventilation test – alternative 2	nue me me me	N/A
all white	Obtained hydrogen generation rate:	TEX WER NUTER WITE	N/A
M.7.3.4	Ventilation test – alternative 3	20	N/A
white	Hydrogen gas concentration (%):	et street while while wh	N/A
M.7.4	Marking	-20 - 20	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	mer mer mer m	N/A
M.8.2	Test method	att att whet when	N/A
M.8.2.1	General	the she she she	N/A
M.8.2.2	Estimation of hypothetical volume V <sub>Z</sub> (m <sup>3</sup> /s):	ret whet whet white wh	. <del>4</del> 1
M.8.2.3	Correction factors:	an in	*
M.8.2.4	Calculation of distance <i>d</i> (mm):	t allet antife and wat	- un
M.9	Preventing electrolyte spillage	a se at at	N/A
M.9.1 🔊	Protection from electrolyte spillage	Inter inter antic unit	N/A
M.9.2	Tray for preventing electrolyte spillage	a at at at	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	with which which with a	N/A
me	Instructional safeguard	et milter white white wh	N/A
N	ELECTROCHEMICAL POTENTIALS	a to the state	N/A
m in	Material(s) used:	untite white white white	an-
0,0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		
ter an	Value of <i>X</i> (mm):	and and and	m
P*	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of entry of a foreign object		P
P.2.1	General	MUL MUL MI M	Р
P.2.2	Safeguards against entry of a foreign object	the the state of the	P
	Location and Dimensions (mm):	No opening.	*
P.2.3	Safeguards against the consequences of entry of a foreign object	NITER WALTER WALTER WALTER	N/A
P.2.3.1	Safeguard requirements	at let get what a	N/A
UTEX	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	when when we we	N/A
with a	Transportable equipment with metalized plastic parts	white white white white	N/A
P.2.3.2	Consequence of entry test:	MITER INTER WALTE WALTE	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	s at at at a	⊘ <sup>_</sup> N/A
P.3.3	Spillage safeguards	WALL WALL WALL WA	N/A
P.3.4	Compliance	i i it it it	N/A



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

P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	30 A At At	N/A
er m	Conditioning, T <sub>C</sub> (°C):	NUTER UNITE WALT WALT	1 - 1 - 1
d 1	Duration (weeks):		dt
Q 🖑	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		
Q.1	Limited power sources	See appended table Annex Q.1	P
Q.1.1	Requirements	a state of	P
no a	a) Inherently limited output	mile mile white white	√ <sup>™</sup> N/A
de c	b) Impedance limited output	a state of	. ́Р
in m	c) Regulating network limited output	LITE WALT WALL WALL VI	N/A
* 1	d) Overcurrent protective device limited output	a at at at a	N/A
2m	e) IC current limiter complying with G.9	anti me way w	N/A
Q.1.2	Test method and compliance	See below	Р
	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
	Maximum output current (A):	THE NET WITH WALL AND	N/A
	Current limiting method:	in a state of	* -<
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1.	General	No such consideration.	
R.2	Test setup	until white white whe	N/A
Set .	Overcurrent protective device for test:	at at let set	State .
R.3	Test method	VIL MUT MUT MUT IN	N/A
et all	Cord/cable used for test:	at at at at and	56 <sup>10</sup> - 10
R.4	Compliance	me me me	N/A
S S	TESTS FOR RESISTANCE TO HEAT AND FIRE		Р
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		
	Samples, material:	Wood Wood	2m —
	Wall thickness (mm):	3.66mm	51 <sup>61</sup> -11
	Conditioning (°C):	the man man we all	
	Test flame according to IEC 60695-11-5 with conditions as set out	et whitet whitet whitet whi	Р
	- Material not consumed completely	A A A A	Р



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- sur-	- Material extinguishes within 30s	multi multi anno m	Р	
IN LIFE	- No burning of layer or wrapping tissue	tet utet autot mut	P	
S.2	Flammability test for fire enclosure and fire bar	rier intearity	N/A	
in m	Samples, material:			
A 18	Wall thickness (mm)	in the second		
mo	Conditioning (°C)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 <u>n</u>	
S.3	Flammability test for the bottom of a fire enclose		N/A	
S.3.1	Mounting of samples	Intice white white with	N/A	
S.3.2	Test method and compliance	at at at 50	N/A	
90 - 40	Mounting of samples	Mart Mart Mart Mart		
uset int	Wall thickness (mm):	ist the tit with	NUT	
S.4	Flammability classification of materials	in me me	N/A	
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	et whilet while while w	N/A	
mer 1	Samples, material	until while while while	201-2	
Set .	Wall thickness (mm):	At 1 At 5th	Jet .	
1 24.	Conditioning (°C)		211 -	
T't nur	MECHANICAL STRENGTH TESTS	and the state of	N/A	
Т.1	General	the me me me	N/A	
Т.2	Steady force test, 10 N:	t set set with a set of	N/A	
Т.3	Steady force test, 30 N:	Mr. Mr. M.	N/A	
Т.4	Steady force test, 100 N:	LIEK NITER MUTER WAIT	N/A	
Т.5	Steady force test, 250 N:	who we we at	N/A	
T.6	Enclosure impact test	still mill and and	N/A	
t 1	Fall test	i s a de	N/A	
m	Swing test	The uniter white white w	N/A	
T.7	Drop test:	the state of	N/A	
Т.8	Stress relief test:	water water water water	N/A	
Т.9	Glass Impact Test	No such glass	N/A	
T.10	Glass fragmentation test	white white and any	N/A	
IE MALT	Number of particles counted:	No such glass	N/A	
T.11	Test for telescoping or rod antennas		N/A	
watte	Torque value (Nm):	No such antennas provided within the equipment.	N/A	



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

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General Control of Con		N/A
LIE W	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2 🧹	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen	in the the second all	N/A
ν _	DETERMINATION OF ACCESSIBLE PARTS	at at the set of	N/A
V.1	Accessible parts of equipment	white white white white	N/A
V.1.1	General	at the state of the	N/A
V.1.2	Surfaces and openings tested with jointed test probes	MAN WALLAND WALL	N/A
V.1.3	Openings tested with straight unjointed test probes	I LT MIL WILL WILL V	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	of the set set a	N/A
V.1.5	Slot openings tested with wedge probe	Mr. Mr. Mr. M.	N/A
V.1.6	Terminals tested with rigid test wire	t set set set are	N/A
V.2	Accessible part criterion	MILL MILL MILL MILL	N/A
X	ALTERNATIVE METHOD FOR DETERMINING C INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
ne.	Clearance:	LE MUT WILL WALL W	N/A
Y 🧬	CONSTRUCTION REQUIREMENTS FOR OUTDO	OOR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	at at at at	N/A
Y.3	Resistance to corrosion	white white white white	N/A
Y.3	Resistance to corrosion	at at at at	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	and wat wat the	N/A
Y.3.2	Test apparatus	liter white white white wh	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	a at at at a	N/A
Y.3.4	Test procedure:	white white white white	N/A
Var	Compliance	at set set set	N/A
1.3.5		and the second second	
A	Gaskets	Mr. Mr. Mr.	N/A
Y.4	Gaskets       General	at at at an	N/A N/A
<b>Y.4</b> Y.4.1		All AN AN ANA ANA ANA ANA ANA ANA ANA AN	- Ar
<b>Y.4</b> Y.4.1 Y.4.2	General		N/A
Y.3.5 Y.4 Y.4.1 Y.4.2 Y.4.3	General Gasket tests	an a	N/A N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
stra	We we we do not the	The state with white	me m	
Y.4.5	Oil resistance	The the second	N/A	
Y.4.6	Securing means	TER NUER MUTE WHITE	N/A	
Y.5	Protection of equipment within an outdoo	r enclosure	N/A	
Y.5.1	General	LIER NUTER MUTER MAIL W	N/A	
Y.5.2	Protection from moisture	1 A A	N/A	
Mr.	Relevant tests of IEC 60529 or Y.5.3	et white white white wh	N/A	
Y.5.3	Water spray test	L A A A	N/A	
Y.5.4	Protection from plants and vermin	white white white white	N/A	
Y.5.5	Protection from excessive dust	it at at at	N/A	
Y.5.5.1	General	nere where whe whe	N/A	
Y.5.5.2	IP5X equipment	A at at at	N/A	
Y.5.5.3	IP6X equipment	I with which which wi	N/A	
Y.6	Mechanical strength of enclosures	t at the states	N/A	
Y.6.1	General	me me me	N/A	
Y.6.2	Impact test		N/A	



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Clause

Requirement - Test

Result – Remark

Verdict

<u></u>	ATTACHMENT TO TEST R	EPORT	-su-
(Audic	IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND N p/video, information and communication technology ed		ents)
Difference	s according to: EN IEC 62368-1:2020+A1	1:2020	
Attachme	nt Form No : EU_GD_IEC62368_1E	Jet which while while whi	m
	nt Originator: UL(Demko)		
Copyright	© 2021 IEC System for Conformity Testing and Co Geneva, Switzerland. All rights reserved.	ertification of Electrical Equipm	ent
and marine	CENELEC COMMON MODIFICATIONS (EN)	LIFE INTERNALICE WALLE W	Р
WALTER W	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368- Clauses, subclauses, notes, tables, figures and an	bers in that column, except for 1:2018.	MALTER
	those in IEC 62368-1:2018 are prefixed "Z".	iekes which are additional to	
	<ul> <li>Add the following annexes:</li> <li>Annex ZA (normative)Normative references to interr 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 dest</li> </ul>	The wanter watches wanter was	
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	<b>sound exposure, E</b> A-weighted sound pressure ( <i>p</i> ) squared and integrated over a stated period of time, <i>T</i>	TEX MULTEX WALTEX WALTEX	N/A
	Note 1 to entry: The SI unit is Pa <sup>2</sup> s. $E = \int_{0}^{T} p(t)^{2} dt$	wonnet wonnet wonnet wonnet	whitek



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20	EN IEC 62368-1	in the she she	24. 25.
Clause	Requirement – Test	Result – Remark	Verdict
shr.	W W The state of	et alle and white	mr m
3.3.19.4	<b>sound exposure level, SEL</b> logarithmic measure of sound exposure relative to a reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz threshold of hearing in humans.	whilet whilet whilet	N/A
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.	et aret while while	t united uni
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	when when the sharest	white white
NUTEX IN	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	where the state	LIEK MLIEK
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	Tet whitet whitet white	N/A
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	whitek whitek whitek	mires whites
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources		- N/A
	Replace 10.6 of IEC 62368-1 with the following:		m. m
10.6.1.1	Introduction	Not such equipment	N/A
	<ul> <li>Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:</li> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and</li> <li>has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).</li> </ul>	ANALIES MALIES ANALIES	white white street white whit
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	aniret waitet waitet	white white
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	inter street wither a	NLIEK WALTER



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m	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
- nn	NOTE 1 Protection against acoustic energy sources from	MILTER WALK WAL	when the	
	telecom applications is referenced to ITU-T P.360.	at at at	THE NUTER	
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose	white white white	en en	
	measurement method as given in 10.6.5 in future. Therefore,	+ + A	Tet Jet a	
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	with which which we	e m m	
	Listening devices sold separately shall comply	at at at a	et all all	
	with the requirements of 10.6.6.	in white white white	an an	
	These requirements are valid for music or video	a at at	10- 10	
	mode only. The requirements do not apply to:	NUTER INTERNITE	white white	
	– professional equipment;	Mr. Mr. A.	at at	
	NOTE 3Professional equipment is equipment sold through	where while while w	Mint Main V	
	special sales channels. All products sold through normal	the second second	at at	
	electronics stores are considered not to be professional equipment.	THE STER MITTER ON	ne in in	
	– hearing aid equipment and other devices for	The way of	L	
	assistive listening;	at the street white	when when	
	– the following type of analogue personal music	me m m	4	
	players: • long distance radio receiver (for example, a	at at set	NUTER MUTE	
	multiband radio receiver or world band radio	When my me	20. 2.	
	receiver, an AM radio receiver), and	AL AL	Set Set	
	• cassette player/recorder;	A MAR W	en alter a	
	NOTE 4 This exemption has been allowed because this		of of a	
	technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be	Ser Mile Mile Mile	mr. mr	
	extended to other technologies.	In a c	1 1	
	– a player while connected to an external amplifier	- Jet Jet Mile	white white	
	that does not allow the user to walk around while	me m m	a at	
	in use.	At the set	NUTER INLIE	
	For equipment that is clearly designed or intended	White white where a	1. 2.	
	primarily for use by children, the limits of the	A at at .	Tet Jet a	
	relevant toy standards may apply.	the write write wr	- 11 - 11	
	The relevant requirements are given in	a at at a	et 5 et 5	
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	WALT WALL WAL	me m	
10.6.1.2	Non-ionizing radiation from radio frequencies	at at at	N/A	
	in the range 0 to 300 GHz	WALTE WALT WALT	nu nu	
	The amount of non-ionizing radiation is regulated by European Council Recommendation	at at at	Jet Jet	
	1999/519/EC of 12 July 1999 on the limitation of	NUTE UNIT WALK W	1 1 1 1	
	exposure of the general public to electromagnetic		at at	
	fields (0 Hz to 300 GHz).	ret street white whi	ne ne	
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	20. 20. 21	1	
	Time-Varying Electric, Magnetic, and	t the set and	until white	
	Electromagnetic Fields (up to 300 GHz). For hand-	white white white		
	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	at at at	JIE JIE	



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	EN IEC 62368-1	the mer way way	
Clause	Clause Requirement – Test Result – Remark		
Jr.	and the state of the	at the state with .	ner an
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
STER WITT	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	NINTER SU
	For classifying the acoustic output $L_{Aeq, \tau}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	Whitek whitek whitek w	NITE WALTER
	For music where the average sound pressure (long term $LAeq, \tau$ ) measured over the duration of	and survey and street with	L
	the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete	at the states with	Inti at antif
	song. In this case, <i>T</i> becomes the duration of the song.	white white white	Liet Milet
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq, 7}$ ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning	white white white	et water w
	<ul> <li>does not need to be given as long as the average sound pressure of the song does not exceed the required limit.</li> <li>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.</li> </ul>	ter white white white	MINISTER WALTER
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	AND SO AND	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player	whitet white white wh	AL WALL
	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and	at net set sure	NU EX MUS
	listening device is known by other means such as setting or automatic detection, the $LAeq, \tau$ acoustic output shall be $\leq 85$ dB when playing the fixed	white whe will a	NITE MOLTER
	"programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized	white white white w	et miret
	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	and and and an	IN TEX WO
	≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	et the who who	UNLITE WALTE
	- The RS1 limits will be updated for all devices as per 10.6.3.2.	when with when a	Tek Jek

Clause

10.6.2.3

Requirement - Test

not exceed the following:

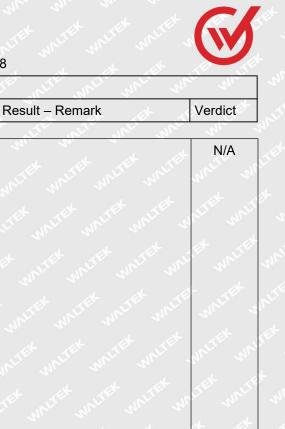
RS2 limits (to be superseded, see 10.6.3.3)

RS2 is a class 2 acoustic energy source that does

- for equipment provided as a package (player with its listening device), and with a proprietary

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" as	White white white wh	at at
ardized ack) that for general age shall be dBFS (digital gramme 50332-1.	and the super super super super	whitek white
ce that	whitek whitek whitek wh	N/A
	10 - 10 - 10	N/A
ant false d level he ), are given	Not such equipment	N/A
ce that does	NUTER INTER MATTER WAT	N/A
ye (player oprietary istening ayer and ans such as q,τ acoustic he fixed ed in EN	wintiget whitet whitet	Whitek whitek

10.6.2.4	with its instening 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. <b>RS3 limits</b>	at white white white and	SUNT EX
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	white white white white	n m
10.6.3	Classification of devices (new)	at a set of	at Nil
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	WANTER N
	<ul> <li>RS1 limits (new)</li> <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 <i>L</i>Aeq,<i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.</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>	ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK ANALISK	Tex one over the over the over the over the over the
10.6.3.3	RS2 limits (new)         RS2 is a class 2 acoustic energy source that does not exceed the following:         – for equipment provided as a package (player	white white white	INT V

N/A

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Clause

10.6.4

10.6.4.1

10.6.4.2

EN IEC 62368-1	The intro white white	an an
Requirement – Test	Result – Remark	Verdict
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 $\leq$ 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 $\leq$ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN	anningt wontret wontret wontret	ALTER ANTER
50332-1. Requirements for maximum sound exposure	TEX NUTEX INTEX MILT	N/A
Measurement methods	Not such equipment	N/A
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	
Protection of persons	At A LIFE M	N/A
Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional		WALTER WALTER
<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 instruction manual. Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.		et wind et wind
The elements of the <b>instructional safeguard</b> shall be as follows: - element 1a: the symbol , IEC 60417-6044 (2011-01)		ntiel white

6044 (2011-01) - element 2: "High sound pressure" or equivalent wording

- element 3: "Hearing damage risk" or equivalent wording

- element 4: "Do not listen at high volume levels for long periods." or equivalent wording

An equipment safeguard shall prevent exposure





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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ALTER WALTER	<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>	and	A SUNITEX SUNITEX
WILLIEK W	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	WATER WATER WATER WATE	* white
10.6.5	Requirements for dose-based systems		N/A
	General requirementsPersonal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.The personal music player shall be supplied with easy to understand explanation to the user of the	Not such equipment	
10.6.5.2	<ul> <li>easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.</li> <li>Dose-based warning and requirements</li> </ul>	Autet Mainet Wainet Wainet	N/A
10.0.0.Z	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	water water water and	



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20	EN IEC 62368-1	the same same	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
str	N W S S S S S S S S S S S S S S S S S S	and with mill white	m m
	acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	WALTER WALTER WALTER W	NITER WALTER
Tex out	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	tiet white white whi	St Nifes N
0.6.5.3	Exposure-based requirements	at the state whe	N/A
	<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.</li> </ul>	Whitek whitek whitek	AND
	The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	while whi which	NUTEK WALTER
	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.	And a	ret oniret on
INLIEK W	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	and and whet a	LIEK NULLEK
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
10.6.6.1	<ul> <li>Corded listening devices with analogue input</li> <li>With 94 dB <i>L</i>Aeq 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 ≥ 75 mV.</li> <li>NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.</li> </ul>	Not such equipment	
0.6.6.2	Corded listening devices with digital input	L A A	N/A
	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	STATE SUBJECT



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	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
SUNTIFIER ON	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.	antifet whitet whitet	whe whe		
10.6.6.3	Cordless listening devices		~ N/A <		
WALFER WALFER WALFER WALFER WALFER	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 $LAeq, \tau$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	and the antite and the	WALTER WALTER		
10.6.6.4	Measurement method	white white white	N/A		
	Measurements shall be made in accordance with EN 50332-2 as applicable.		stret whet we		
3	Modification to the whole document		Р		



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	EN IEC 62368-1							
Clause	Red	quirement -	- Test	when	R	esult – Rema	ark	Verdict
When .	Del list:		"country" note	s in the refe	rence docume	nt according	to the following	P-
	d- [	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	in an
	- 24	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	et uni
	112	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	WALTEN
	5	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	WILTER
	*	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	TEX NI
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	et unit
	N-14	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	whitek
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	Julet .
	ιÌ	Y.4.5	Note					1
-NINL'	Mo	dification	to Clause 1		AT AV		the the t	P
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			
	Мо	dification	to 4.Z1					Р



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	EN 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	Not directly connected to the mains	N/A		
	<ul> <li>and earth faults in circuits connected to an a.c.</li> <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</li> </ul>	and white white white	an surfet an		
	<ul><li>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</li></ul>	whitet whitet whitet white	e would		
	coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	Marter white white white	- MALA -		
	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	1 it at at .	n w		
	of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	white white white wi	* 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.	when your and when the	N TEX MAN		
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.	- JUEK		
7	Modification to 10.2.1		N/A		
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A		
8	Modification to 10.5.1		N/A		



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Sur	W W THE ALL AND A	En MULTE WALL WAL	me m	
10.5.1	<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</li> </ul>	antifet wattet watet	N/A	
	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.	et whitet whitet white	at white white	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	Whitek whitek whitek w	NUTE WALLY	
	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.	Tet whitet whitet whi	NALL AND THE AND	
	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.	ie outer which would	et we let wit	
t stet	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the state	JEt MIE	
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.	unitet whitet whitet	N/A	
10	Modification to Bibliography		P	



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20	EN IEC 62368-1			
Clause	Requirement – Test	white white we want	Result – Remark	Verdict
sur	241. 241. 2.	the state of the s	TEN WITH WALL WITH WITH	- anne
	Add the following no	tes for the standards indicate	ed:	e Be
	IEC 60130-9	NOTE Harmonized as EN 60	)130-9.	m
	IEC 60269-2	NOTE Harmonized as HD 6		1
	IEC 60309-1	NOTE Harmonized as EN 60		STE .
	IEC 60364		ed in HD 384/HD 60364 series.	24 20
	IEC 60601-2-4	NOTE Harmonized as EN 60		de :
	IEC 60664-5 IEC 61032:1997	NOTE Harmonized as EN 6		in m
	IEC 61508-1	NOTE Harmonized as EN 6 NOTE Harmonized as EN 6		
	IEC 61558-2-1	NOTE Harmonized as EN 6		9° 50°
	IEC 61558-2-4	NOTE Harmonized as EN 6		2012
	IEC 61558-2-6	NOTE Harmonized as EN 6		. At
	IEC 61643-1	NOTE Harmonized as EN 6	1643-1.	J. C.
	IEC 61643-21	NOTE Harmonized as EN 6	643-21.	
	iEC 61643-311	NOTE Harmonized as EN 6	643-311.	dit .
	IEC 61643-321	NOTE Harmonized as EN 6	643-321.	nr m
	IEC 61643-331	NOTE Harmonized as EN 6	643-331.	at a
<u> </u>		EXES		P
ZB			(EN)	P
4.1.15		Norway and Sweden	Not directly connected to the	N/A
	<ul> <li>connection to other e if safety relies on corrif surge suppressors network terminals an marking stating that is connected to an eart</li> <li>The marking text in the beas follows:</li> <li>In <b>Denmark</b>: "Appara stikkontakt med jord."</li> <li>In <b>Finland</b>: "Laite on varustettuun pistorass In <b>Norway</b>: "Apparat stikkontakt"</li> </ul>	quipment type A intended for equipment or a network shall, anection to reliable earthing of are connected between the d accessible parts, have a the equipment shall be hed mains socket-outlet. The applicable countries shall atets stikprop skal tilsluttes e som giver forbindelse til liitettävä suojakoskettimilla iaan" et må tilkoples jordet ren skall anslutas till jordat	or where	N TEX WANT
4.7.3	United Kingdom	et unet ourer outer	INTE WALL WALL WALL	N/A
		oclause the following is	MATEX MALIER MALIER MALIER W	n Tex wh
	complying with BS 1	rformed using a socket-outle 363, and the plug part shall b /ant clauses of BS 1363. Als his annex	e sin nin and an	STA WALT

WINLIE,



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
she i		and white white white wh	the alle		
5.2.2.2	<b>Denmark</b> After the 2nd paragraph add the following:	No high touch current measured.	N/A		
strek white	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	eret white white shire	Whitek W		
5.4.11.1	Finland and Sweden	No such external circuits.	N/A		
and Annex G	To the end of the subclause the following is added:	er white white white v	112 - 11 112 - 116		
	For separation of the telecommunication network from earth the following is applicable:	white white white white	et outer		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	and the state state	NAL IN		
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	at which which which	NUT CH NU		
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	white white white wh	Let WALLEY		
	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	antitet water water	and sex and		
	• 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),	whitet whitet whitet white	et whitet		
	and	at that the state where	nitet uni		
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	white white white	TE JUNITE		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	ALTER WALTER WALTER WALTE	t milet		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	tet woutet wouter wouter	NIT X INIT		
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	white white white w	et white		



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<u></u>	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
silver		and the work's white	me m		
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Tet stat strat	INLIEK WALTER		
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	SULL WITH WITH SULLEY	Tek Walter 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.	fet whitet whitet white	wint fer wint		
5.5.2.1	Norway	t at the star	N/A		
	After the 3rd paragraph the following is added:	wat sure wat	an an		
unit un ret re	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	and	er set		
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A		
	To the end of the subclause the following is added:	at stret suret sources	whister whis		
	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	minet whitek		
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>	The world world world	white white		
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WALLER WALLER W	NETE MALIT		
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment type A, the following is added: 	aret water water water	N/A		
5.6.4.2.1	France	t set ster alle	N/A		
	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	white white white	at set		
5.6.5.1	To the second paragraph the following is added:	the 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.	antifet wattet wattet	white white		



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
- sh-	N N A A A A A	the matter white white	m. m.		
5.6.8	Norway	L A	P-		
	To the end of the subclause the following is added:	WALFER WALFER WALFE	ountile ountil		
	Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the	set set when a	LIEK WAIEK W		
	Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	ist when when we	et intet un		
5.7.6	Denmark	m. m. m.	Р		
	To the end of the subclause the following is added:	y white white white	white white		
Intret of	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	miret whitek whitek w	NUTEX WALTER		
5.7.6.2	Denmark	Tet Jet with m	PV RV		
	To the end of the subclause the following is added:	with solution of the	t 50t 5		
	The warning (marking safeguard) for high touch	in mite white white	men me		
	current is required if the touch current or the protective current exceed the limits of 3,5 mA .	the state of the s	10 10		
5.7.7.1	Norway and Sweden	Not such system.	N/A		
5.7.7.1	To the end of the subclause the following is	Not such system.			
	added:	1. 1 Str.	The street		
	The screen of the television distribution system is				
	normally not earthed at the entrance of the		et set :		
	building and there is normally no equipotential bonding system within the building.	VE INTE WAL WAL	an an		
	Therefore the protective earthing of the building		t		
	installation needs to be isolated from the screen of	- THE STREE MILE	white white		
	a cable distribution system.	me me m	1 1		
	It is however accepted to provide the insulation	at at at	NUTER INLIE		
	external to the equipment by an adapter or an	while while where is	m. 20.		
	interconnection cable with galvanic isolator, which	I A At	Let Set		
	may be provided by a retailer, for example.	still white white wh	h h		
	The user manual shall then have the following or		t st		
	similar information in Norwegian and Swedish	set the street out	white white		
	language respectively, depending on in what	m m m			
	country the equipment is intended to be used in:	t at at at	NITE INTE		
	"Apparatus connected to the protective earthing of	white white white	20 20		
	the building installation through the mains	a at the	Set Set		
	connection or through other apparatus with a	aller oute white w	the start of		
	connection to protective earthing –	and the second	st at		
	and to a television distribution system using coaxial cable, may in some circumstances create	at the set of	in the set		
	a fire hazard. Connection to a television	a me me m.	2.		
	distribution system therefore has to be provided	1 A at A	- 5 <sup>4</sup> 5		
	through a device providing electrical isolation	E INTE WITT WAT	me me		
	below a certain frequency range (galvanic isolator, see EN 60728-11)"	at at at	UTEK NUTEK		
	NOTE In Norway, due to regulation for CATV-installations, and	white white white	apr - 2m		



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
when when when when when when when when	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.	AND THE STORE STORE AND	* INTER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	STATE STATE AND SALES	WALLEY W
	<ul> <li>"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.</li> <li>For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."</li> </ul>	WALTER WALTER WALTER WAL	C WALTER
Tet watte	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."	A MALE MALE MALE MALE	an street warden
8.5.4.2.3	United KingdomAdd 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.	No external circuits.	N/A
B.3.1 and B.4	Ireland and United KingdomThe following is applicable:To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A
G.4.2	Denmark         To the end of the subclause the following is added:         Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.         CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against	Not directly connected to the mains	N/A



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EN IEC 62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				
- Mar	rules shall be provided with a plug in accordance	and white white white white	- m				
	with standard sheet DK 2-1a or DK 2-5a.	MATER ANALES MALLER MALLE	White				
	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	an whitek whitek whitek	Whitek W				
	60309-2.	er unite unite unit wi	- m				
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	whitek whitek whitek white	VALTER VALTER				
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Tet waitet waitet waitet	In LIEK W				
	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	Whitek whitek whitek wh	at white				
NITEK WAY	<i>Justification:</i> Heavy Current Regulations, Section 6c	and some when the	WALTER				
G.4.2	United Kingdom	Not directly connected to the	N/A				
	To the end of the subclause the following is added:	mains	n'n m				
SUMITER SU	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	Se Moniss Marinek Marinek				
G.7.1	United Kingdom	at at set set	N/A				
	To the first paragraph the following is added:	white white white wh	- SHI				
	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.	whitek whitek whitek whitek	VUNITE VUNITEX				
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	antifet whitet whitet wh	ITEL MALT				

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EN 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 between 525, 1007, "12 A Pluga	antick which which which	N/A			
ret white	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	et waitet waitet waitet wa	r et whit			
G.7.2	Ireland and United Kingdom To the first paragraph the following is added:	white white white white	N/A			
int wi	A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	oner and ret ret aret	JAN V			
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)					
10.5.2 G TI	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an	No CRT within the equipment.	N/A			
	acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	at white white	NALTEX W			
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Standing white white an	et white			
WALTER W	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	whitet whitet whitet white	White			
ZD	IEC and CENELEC CODE DESIGNATIONS FOR	FLEXIBLE CORDS (EN)	P			



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Clause	Requirement – Test	Result – Remark	Verdict			

Type of flexible cord	Code de	esignations
	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	HO3RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	(5.)	6
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз <b>р</b> v4-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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5.2	TABLE: Classification of electrical energy sources						
Supply Voltage	Location (e.g.			Parame	ters		ES
	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
designe supplie	The EUT is	Normal	<60Vdc	n - a.	SS	DC	ES1
	designed to be supplied by Type	Abnormal		Jer Juler	men- w	n -m	WALLER .
	-C port	Single fault – SC/OC	111 - 111	t Jet	5 EF- 05	et	
4.20Vdc	The EUT is	Normal	<60Vdc	m_ m	SS	DC	ES1
	designed to be supplied by	Abnormal	dt - dt	STA NI		un - un	ne al
	Internal Li-ion battery cells	Single fault –	- <u>1</u>	N _ N	564	allet all	et uni

Supplementary information:

1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.

2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

3) Test Conditions:

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

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Workin	g voltage measu	rement			N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Commer	nts
- spirite while while w	-m-	st Test	et - tet	STER MITER THIS	. white
- + + + +	Et allet and	min mi	m_ m		L At
Supplementary information:					

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method			:	ISO 306 / B50	MUTER MIL		
Object/ Part No./Material		Manufacturer/trademark		Thickness (mm)	T softening (°0		
-unit on	r. Mur mu.	w at at	Jet-	JEt JIET I	LIE WALL	main	
Supplement	ary information:						
Supplement	ary information:	8v.	4	1 10 A	× s		

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



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Clause	Requirement – Test	Result – Remark	Verdict					
- At	tet tet - set outed in	with any and and and a	x st - st					
Suppleme	entary information.							

5.4.2, 5.4.3 TABLE: Minimum	Clearan	ces/Cre	epage o	listance	-2m	24		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)
- white white white white	a.	2m.	,,		14- C	5 <sup>10</sup> 5	er <u>n</u> ure	NN12

Supplementary information:

1) Only for frequency above 30 kHz

2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2	TABLE: Minimum	TABLE: Minimum distance through insulation							
Distance t (DTI) at/of	through insulation f	Peak voltage (V)	Insulation*	Required DTI (mm)	Mea	sured DTI (mm)			
- ,	att att at	MILLE WILL WAL	nu - m	A	,st	- 14			

Supplementary information:

\*See also sub-clause 5.4.4.9

5.4.4.9 TABLE: Solid in	nsulation at	frequencies	>30 kHz			N/A
Insulation material	E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
- until worth worth w	- m		<del></del>	10t . 50	- NUTER OF	The water
Supplementary information:						

5.4.9	TABLE: Electric strength tests	s at at	Tet Jet all	N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	THE STREE STREET MALLE WAL	and an an	i i it it	at at
-m. m	with the set	- JEK JJEK MJE	- white white w	h. m. 1
Basic/supple	ementary:	The the to	t it	et of s
the me	M to the state	Tet aller ante	This which whe	m. m.
Reinforced:	NITER MUTE WALT WAT W		at at a	t stat st
- 20-	the state of the state	the interview	1-22 wints wint	m m
Routine Tes	sts:		at at set	STIFF NUTER
- 20 2	a at at at an	- INLIE WALL MAL	- me me.	9. <del>7</del> . 1
Supplement	ary information:			



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

5.5.2.2	5.2.2 TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class	
s m-	- m - n		Normal	THE NTELLE	Rep. Aur.	me -m	
et whitek -	UNLITER WAS	TER WALLE WALL	Single fault: SC/ OC	at whet we	of an inter	LIEK WALTER	

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	5.6         TABLE: Resistance of protective conductors and terminations					
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
	the state	at the set	white white s	W. W. W		
Suppleme	ntary information:			1		

5.7.4	TABLE	E: Unearthed accessible parts						
Location		Operating and	Supply	F		ES class		
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)		
L/N to secon	dary	Normal		5 JA JA	mult- white	Mr.	n - n	
terminals		Abnormal: overload	when - white	when the	set set	NUTET IN	LIEK-	
		Single fault: SC/ OC	stret Jonan .	MUT -MUT	ur <u>p</u> ur	500-50	et -	
Supplementa	ary info	rmation:						

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	sible conductive part				
Supply vol	tage (V)	- 1 1 1	stift wife a	MULT WALL W		
Phase(s)		[] Single Phase; [] Three	Phase: [ ] Delta	[]Wye		
Power Dist	ribution System	[]TN []TT []IT	et ster of	it white white		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commer	nt	
- ~	and the	st aller oute and	mr - m	n. m	20	
Suppleme	ntary Information:					
ar av		1 15 15	Nº N	an an s	şe	



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Clause	Requirement – Test	Result – Remark	Verdict			

5.8	TABLE	ABLE: Backfeed safeguard in battery backed up supplies					
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
<u>e</u> 24		, T	at the set	INTE- NAT	m - m	· -70-	20 20.
Suppleme	ntary infor	mation:					

6.2.2 T	ABLE: Power sourc	e circuit classif	ications			P 1
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Battery circuit	Output pin + to -	3.5	6.365	22.28	_d= 5S_d=	PS2 S
Battery circuit	Signal fault (U1 SC)	WALTER OWLITER	on to only	white an	35	PS1
Battery circuit	Signal fault (NTC OC)	at 0 at	51 <sup>st</sup> 0,51 <sup>st</sup>	10 <sup>11</sup> 0.10 <sup>11</sup>	35	PS1
Output	Output pin + to -	11.88	1.95	23.17	5S 🔬	PS2
Output	Signal fault (U1 SC)		0	0	35	PS1
Output	Signal fault (NTC OC)	11 0	0	0	3S	PS1
Supplementary	information:					

Abbreviation: SC= short circuit; OC= open circuit 1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	TABLE: Determ	ination of Arcing PIS			N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
the wall	white white	m. m.	1 I.	Set States	no the
Supplemer	tary information:	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	

6.2.3.2	TABLE: Determ	ABLE: Determination of resistive PIS				
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No		
All primary circuits/cor		Tet with anter white	white white white 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 x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if

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Clause	Requirement – Test	Result – Remark	Verdict							

electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

	N/A
is of Particle f icle beyond 1 / Nc	m Yes
· · · · · · · ·	A

9.6 T	ABL	LE: Temperature measurements for wireless power transmitters								
Supply voltage (V)				.:	9V	de la	d 1	the set	. Ter	
Max. transmit	рои	ver of transmit	ter (W)	:	15V	Are all	In.	m	5. J.	_
		w/o receive con	r and direct tact			eiver and contact	at dista	eiver and ince of 2 nm		eiver and at e of 5 mm
Foreign objects		Object (°C) Ambient (°C)		Obje (°C		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel disc	h.	27.0	24.3	51.	0	24.6	48.2	24.4	43.6	24.3
Aluminium ri	ng	26.4	24.2	60.	0	24.5	56.4	24.6	52.8	24.4
Aluminium fo	oil	26.0	24.2	65.	4	24.5	60.1	24.5	54.3	24.6
Supplementar	y inf	formation:								
me m		m n	st.	1th		et 50	NUT	Inter all	in me	20-

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurem	ents				P V
Supply volta	Supply voltage (V)		Condition 2	-NIN	- unit	_
Ambient ter	nperature during test <i>T</i> amb(°C):	See below	See below	ALL ALLAND	un -	—
Maximum n	neasured temperature <i>T</i> of part/at:		T (°C	)		Allowed T <sub>max</sub> (°C)
PCB near L	13. At the state mark	43.1	68.3	2m -		130
PCB near L	I1 and L1	57.7	99.6	J10	LIE - NUT	130
Battery	THE THE NUMBER WALT	37.0	53.7	``	,t	Ref.
Battery wire	when when we get	45.2	70.3	500 - 150	NP-LIT	80
Wooden sh	ell inside	33.6	43.5	- ,,		Ref.
Skin shell ir	iside	32.7	39.8	NIT IN	m m	Ref.
Wooden sh	ell outside	29.9	33.1	75	10	107
Skin shell o	utside	32.5	39.1	1 V	en - m	Ref.

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Clause	Requirement – Test	Result – Remark	Verdict						

Ambient	17 <sup>10</sup>	et intre	25.0	25.0		-	st - st
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed 7 <sub>max</sub> (°C)	Insulation class
THE MIT WALT WAL	14r	n n		L0	- <del>, , , -</del>	5 <sup>4</sup> - 5 <sup>4</sup>	ting the south

Supplementary information:

\* 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. Condition 1: For power bank only charge with internal empty battery.

Condition 2: For power bank only discharge with internal fully battery.(load 12Vdc, 1.66A)

B.2.5	<u>с</u> Т.	ABLE: Inp	out test					Let get get get part			
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status			
Conditio	n 1: C	nly charg	e with interr	nal empty	battery (f	or powe	r bank)	The super su			
12Vdc		1.25	1.5	15.0	~ ~		,	Battery charge current: 3.8A			
Conditio	n 2: C	nly discha	arge with int	ternal full	y battery (	for powe	er bank)	men and me and			
4.2Vdc	<u>14</u>	5.1	S	21.42	-2			Battery discharge current: 5.1A			
Supplem	entar	y informat	ion:								
The max	imum	measured	d current un	der rated	voltage di	d not ex	ceed 110	% of the rated current.			

B.3, B.4	TABLE: Abnor	mal operating	g and fau	lt condit	ion tests		e P5 <sup>el</sup>	
Ambient ter	mperature T <sub>amb</sub> ('	°C)			: See	e below		
Power sour	rce for EUT: Man	ufacturer, mo	del/type, c	outputrati	ng:	t let stat stad		
Componer No.	nt Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (/	Observatio	n	
Condition 1	I: Only charge wi	th internal em	pty batter	\$	IN LIFE	white white white a	n. in	
U1	S-C	5Vdc <sup>1)</sup>	7hrs	MALIEX.	INTER NO	Unit shut down immed damage, no hazard. Recoverable.	diately. No	
NTC	0-C	5Vdc <sup>1)</sup>	7hrs	NITET W	Tet wints	Unit shut down imme Repeat 3 times No da hazard. Recoverable.		
Condition 2	2: Only discharge	with internal	fully batter	y S	at alle	White white white	me ne	
Jet U1, et	S-C	4.20 Vdc <sup>2)</sup>	7hrs	200 MALTER	Unit shut down immed damage, no hazard. Recoverable.		diately. No	
R8	S-C	4.20Vdc <sup>2)</sup>	7hrs	untiet y	Miret	Unit shut down immediated damage, no hazard. Recoverable.		
Output	s-c	4.20Vdc <sup>2)</sup>	10mins	18	10t - 54	Unit shut down immed	diately. No	

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Clause	Requirement – Test	Result – Remark	Verdict					

EN IEC COOCO 4

NUTER INTER MATER WAY	ret watter watter wat v	damage, no hazard. Recoverable.
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Supplementary information:

<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 standard after restoration of normal operating conditions.

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

4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pro	otection circu	its for b	atterie	es provid	ed w	vithin	the equ	ipment	N P
ls it possible	to install the	battery in a re	verse po	larity	position?.	:			<del>r</del> st	
					C	Charg	jing			
Equipment S	Specification		Voltage	e (V)					Current (A)	
		Se	ee pages	2 ratir	ng 💉	a.	ŶĽ.,	یک Se	e pages 2 rat	ing
					Battery	/ spe	cifica	tion		
		Non-recharge	able batt	teries			Rec	hargeab	le batteries	
		Discharging	Uninten	tional	(	Charg	ging		Discharging	Reverse
Manufacturer/type Guangdong Cvatop New Energy Technology Company Limited / 755590		current (A)	charging current (A)				Curr	ent (A)	current (A)	charging current (A)
		NUTER WALTER	Set white wh		See B.2.5		See B.2.5		10	WALLEY V
Note: The tes	sts of M.3.2 a	re applicable c	only wher	ו abov	e appropr	iate c	data is	s not ava	ilable.	
Specified ba	ttery tempera	ature (°C)					-	JE NI	10-45	5
Component No.	Fault condition	Charge/ discharge mo	-	est me	Temp. (°C)		rrent A)	Voltage (V)	e Obse	ervation
U1	SC	Charge	NO. TEX	7h _51	et white	0.001		4.20	Unit shutdo immediate Recoverab damaged,	y. le. No
R8	SC	Discharge		7h	0.001		0.001 4.20		Unit shutdo immediate Recoverab damaged,	y. le. No

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



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Clause	Requirement – Test	Result – Remark	Verdict			

M.4.2	TABLE: battery	E: Charging safeguards for equipment containing a secondary lithium y						P
Maximum	specified o	charging voltag	je (V)		<i>ا</i> ي:	4.2	200. 200	_
Maximum	specified o	charging currer	nt (A)		: _	8- 5	NUTER INLIE	
Highest s	pecified ch	arging tempera	ature (°C)	<u> </u>	<u>20</u>	45	the state of the s	
Lowest sp	pecified cha	arging tempera	ture (ºC)		;6	10	MUTER WALTE WIT	
Battery		Operating		Measuremen	nt	·	Observatio	n
manufacturer/type		and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)		
Lowest sp	pecified cha	rging temperat	ure: 10°C	1. 1. 1.		Set St	A NUTER UNITE N	In the w
Guangdong Cvatop New Energy Technology		Normal	4.20	0.5A	te	Battery mperature: 10°C	The battery charging curre decreases	
Company 755590	Limited /	Abnormal-	mer - m	20-1		- 4	- at the st	A STE
		Single fault –	_dd*	NITE OF	5.00	in the	- me m	2m
Highest s	pecified cha	arging tempera	ture: 45°C		÷	at a	et set set	NUTER
Guangdong Cvatop New Energy Technology		Normal	4.20	0.001A	tei	Battery mperature: 45.0°C	The battery charging circu stop charging	
	Company Limited /					5		
	Limited /	Abnormal-	180					

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)       P									
Output Circuit	Condition		Time (s)	I <sub>sc</sub>	(A)	S (VA)				
	Condition	U <sub>oc</sub> (V)		Meas.	Limit	Meas.	Limit			
Output	Normal	12	5S	1.95	8	23.4	100			
Output	Signal fault (U1 SC)	0	5S	0	- 80	<u></u>	100			
	Signal fault (NTC OC)	(* 0, <sup>10</sup>	5S v	0	8	0	100			

SC = short circuit, OC = open circuit

T.2, T.3, T.4, T.5	TABLE: S	teady force te	st 🕠	- 54 5 - 58	t set	tret miret miret mar	N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	

2



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Clause	Requirement – Test	Result – Remark	Verdict			
m	The the the	< Alt all with our other of	an an			

N						
$\eta_{-} = \eta_{0}$	20		A	. At	55 5	fer intres white white white
14 14	Set	ALTER MATE	. NALTE V	In Co	20. 20.	s at the fit .
in me	11. 1		de la	at .	LIEK NIE	white white white white wh

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

Г.6, Т.9 Т	ABLE: Impa	ct test		N/A
ocation/Part	Material	Thickness (mm)	Height (mm)	Observation
1 A	st s	t the ste	white w	when when we we we
ne main s	ne me	201 - 201	14	et the wine with white white white
1 At	at at	JEN JE	mun wat	When we we the the

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

Т.7 Т	TABLE: Drop test			N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
et alle	Les La			the state of the state of
	t it	at at	Intre Main	WALL WIT WIT THE THE
INLIE	er white	me me		the ret state with mittan whi
Supplementa	ry information	:		

Т.8 Т.	ABLE: Stress	s relief test	4	at at	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
- 10- 5	t sitt.	NUTER MAIL N	er mer	14. 1	a at at at at
Supplementary	/ information:				
*Testwas norf	ormed on pro	duct with each sou	urce listed in t	able / 1 2	the state of the s

X TABLE: Alternative method for determining minimum clearances distances N/							
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)				
antit white when we		at - at se	MITTER AND AND AND				
Supplementary information:							
with which which which	She wat	At At At	stre out white				

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Clause	Requirement – Test	Result – Remark	Verdict			

4.1.2 Object / part No.	TABLE: Critical components information				,s⊢P⊢
	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
NTC	SHENZHEN YUETAIDA TECHNOLOGY CO., LTD	104F-4250-60L	R25=100KΩ±1%, B25/50=3950K±1%	EN IEC 62368-1	Test with appliance
Fire barriers near battery cell	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A (b)	V-0, 130°C	UL 510A	UL E246950
PCB	Shenzhen Hecheng Fast Electronic Technology Co Ltd	1,1a	V-0, 130°C	UL 796	UL E159194
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	ÜL
Wood enclosure	Interchangeable	Interchangeabl e	Thickness: 3.66mm	EN IEC 62368-1	Test with appliance
Plastic enclosure	Interchangeable	Interchangeabl e	Min. V-1, min. 80°C, min. thickness: 0.4mm	UL 94	UL MARINA
Battery lead wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 26AWG, VW-1	UL 758	UL
Internal Li- ion Cell	Guangdong Cvatop New Energy Technology Company Limited	755590	3.7V, 4000mAh	IEC 62133-2: 2017	Report no.: LA2020B065 7002

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



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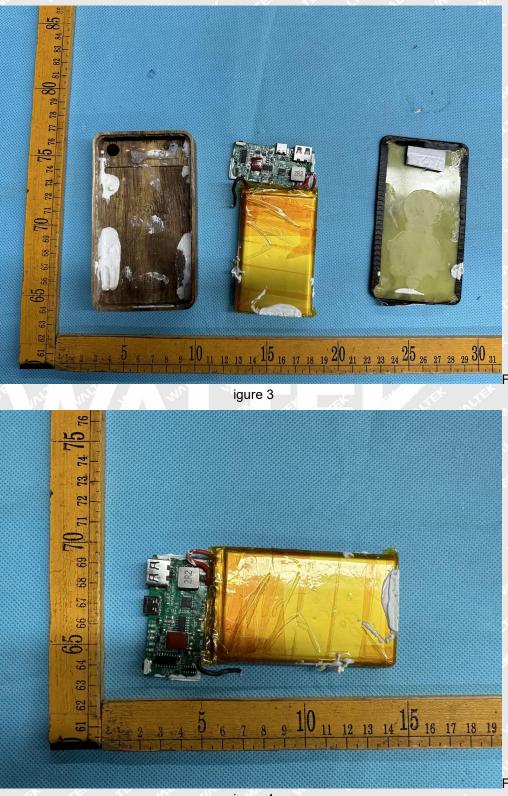


Figure 2

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igure 4



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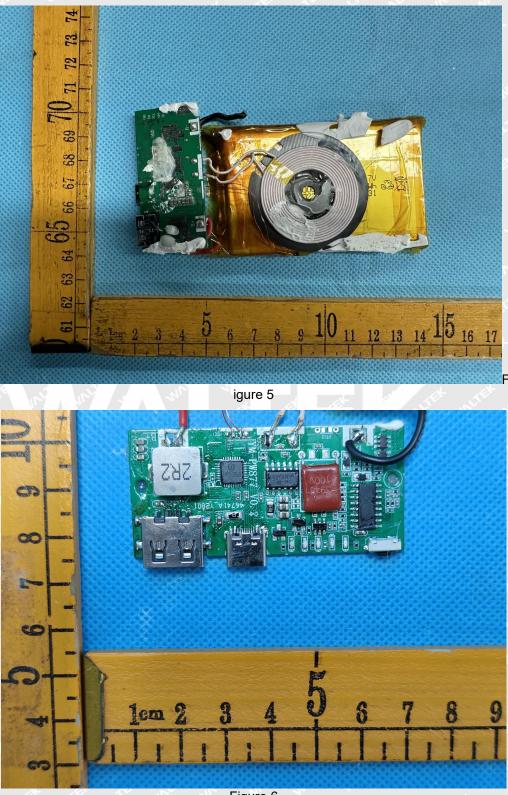


Figure 6



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# **Photo Documentation**

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Figure 7

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

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