



TEST REPORT

Reference No		WTF24D06129527Y
Applicant	an.	Mid Ocean Brands B.V

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Address.....

Hong Kong

Manufacturer..... 114538

Address.....

Wireless 10000 mAh Power bank Product.....:

Model(s).....: MO9821

Total pages: 67 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....: 2024-06-04

2024-06-04 to 2024-06-21 Date of Test.....

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

Test Result.....: **Pass**

Remarks:

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

Prepared By:

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Compiled by:

Jason Huang / Project Engineer

Jason Huany

Almon Zhao / Designated Reviewer

Approved by:



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Test item description	Wireless 100	00 mAh Power bank
Trademark:	MOB	
Model and/or type reference:	MO9821	
Rating(s):	Capacity: 100 Micro Input: E USB Output: Type-C Input: Type-C Output	out power: 15W Max 000mAh/37Wh DC 5V === 2A ,9V === 2A DC 5V === 2.4A (Total) DC 5V === 2A ,9V === 2A ut: DC 5V === 2A , 9V === 2A, 12V === 1.5A put: DC 5V === 1A, 7.5V === 1A 9V === 1.1A, 9V ===
Remark:		
Whether parts of tests for the product I	nave been subc	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lal Test items:	b information:	
Lab information:		
Summary of testing:	LIE WALLE	and and all the fifth that
Tests performed (name of test and t	est clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020 All	applicable test	No. 77, Houjie Section, Guantai Road,
The submitted samples were found to the requirements of above specification		Houjie Town, Dongguan City, Guangdong, China
Summary of compliance with Nation	nal Differences	(List of countries addressed):
EU Group Differences		
☐ The product fulfils the requirements1:2020+A11:2020.	of EN IEC 623	68-1:2020+A11:2020 and BS EN IEC 62368-
Use of uncertainty of measurement	for decisions	on conformity (decision rule) :
applicable limit according to the spec	cification in tha	rd, when comparing the measurement result with the at standard. The decisions on conformity are made acceptance" decision rule, previously known as
Other: (to be specified, for example requirements apply)	ole when requir	ed by the standard or client, or if national accreditation
Information on uncertainty of measu	urement:	
		the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on the decision rule when reporting tes	st results withi	n of measurement uncertainty principles and applying in IECEE scheme, noting that the reporting of the necessary unless required by the test standard or
Calculations leading to the reported vithe testing.	alues are on fil	e with the NCB and testing laboratory that conducted



Copy of marking plate:

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

MOB / MO9821

Frequency range:110-205kHz Wireless Output power:15W Max PO BOX 644 Capacity: 10000mAh/37Wh 6710BP(NL)

Micro Input:DC 5V-2A,9V-2A Made in China

USB Output:DC 5V=2.4A (Total)

Type-C Input:DC 5V=2A,9V=2A

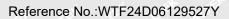
Type-C Output:DC 5V-2A, 9V-2A, 12V-1.5A

Wireless Output:DC 5V=1A,7.5V=1A,9V=1.12A,9V=1.66A



Remark:

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







TEST ITEM PARTICULARS:	A SE SER SER STEE STEEL STEEL
Product group	
Classification of use by	☑ Ordinary person☑ Instructed person☑ Skilled person
Supply Connection	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance	□ +10%/-10% □ +20%/-15% □ +%/% None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	□ Location: □ building □ equipment □ N/A
Equipment mobility:	 ⊠ movable □ direct plug-in □ stationary □ stat
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⋈ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location	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 ⊠ _5000_m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.234kg



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POSSIBLE TEST CASE VERDICTS:	a with the the the the
- 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:	ALL AND THE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL
Date of receipt of test item	: See the cover
Date (s) of performance of tests	: See the cover
GENERAL REMARKS:	LIFE RESERVANCE WALL WALL WALL WALL WALL WALL WALL
"(see Enclosure #)" refers to additional informatio	n appended to the report.
"(see appended table)" refers to a table appended	d to the report.
Throughout this report a \square comma $I \boxtimes$ point	is used as the decimal separator.
GENERAL PRODUCT INFORMATION:	LIER STEEL WILL MULL MULL MULL MINE
2. The manufacturer specified maximum ambient to including 5000 m above sea level.	2000 mAh Power bank used as information apparatus. temperature is 25°C. The specified altitude is up to and proved internal lithium-ion battery or USB type-C which er circuit existed.
Model Differences	THE ITE WITE MIT WAS MIT WITE



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Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits	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 st S	2 nd S
PS2: All circuit	Enclosure	Equipment safeguard (clause 6.3.1 complied)	Equipment safeguard (clause 6.3.1 complied)	N/A
7	Injury caused by hazardous	substances		
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery (See Annex M)	Ordinary	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		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	N/A

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	ENERGY SOURCE DIAGRAM
Indicate which e	nergy sources are included in the energy source diagram. Insert diagram below
1 14	TEX TEX STEEL WITE MUST MUST MILL MILL MILL MILL MILL MILL MILL MIL
WILL WALL	□ ES □ PS □ MS □ TS □ RS
7	See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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Unit	Mr. Mer M. M.	EN IEC 62368-1	Mrs. Mer.
Clause	Requirement – Test	Result – Remark	Verdict

4	4 GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JI P
4.1.2 united	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	ML P W
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C):	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	P
4.4.3.1	General	20 20	Р
4.4.3.2	Steady force tests	(See Clause T.4)	P
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	of the still niter 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
m, mr	Glass impact test (1J)	LIER MITER WHILE WHILE OF	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	a at at a	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	N P
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	or me me me	Р
4.5.1	General	et liet aliet with an	P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Par



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Clause	Requirement – Test	Result – Remark	Verdict	
JALTER ST	No harm by explosion during single fault conditions	(See Clause B.4)	P	
4.6	Fixing of conductors	See below	Р	
Life. Wi	Fix conductors not to defeat a safeguard	TEX TEX STEX STEE	MET P W	
اد ک	Compliance is checked by test	(See Clause T.2)	N/A	
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A	
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A	
4.7.3	Torque (Nm)	et aliet while while and	N/A	
4.8	Equipment containing coin/button cell batteries		N/A	
4.8.1	General	No coin/button cell batteries used.	N/A	
4.8.2	Instructional safeguard	THE STIEF WITH SMITH	N/A	
4.8.3	Battery compartment door/cover construction	24, 24,	N/A	
MALA	Open torque test	the rifer wife write w	N/A	
4.8.4.2	Stress relief test	The state of the s	N/A	
4.8.4.3	Battery replacement test	CHIEF WILL MULL MAN	N/A	
4.8.4.4	Drop test	The state of	N/A	
4.8.4.5	Impact test	White whi	N/A	
4.8.4.6	Crush test	# 1H+	N/A	
4.8.5	Compliance	The White Mail Mail "	N/A	
t JEST	30N force test with test probe	L OF SET SET	N/A	
2/1,	20N force test with test hook	white with white will	N/A	
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р	
4.10	Component requirements	mer me me m	N/A	
4.10.1	Disconnect Device	TEX TEX STEX	N/A	
4.10.2	Switches and relays	he me in m	N/A	

5	ELECTRICALLY-CAUSED INJURY		Р
5.2 Classification and limits of electrical energy sources		sification and limits of electrical energy sources	P
5.2.2	ES1, ES2 and ES3 limits	All internal circuits are considered to be ES1	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	200 P 20
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	et let set se	N/A



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

<u> </u>	Troquiloni Toot	Troodic Tromain	Voluiot
5.3	Protection against electrical energy sources	the marine marine and the sail	N/A
5.3.1	General Requirements for accessible parts to	All All Mark	N/A
0.0.1	ordinary, instructed and skilled persons	mer mer mer m	
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	THE LIE NITER MITE	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	of the title lifet	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit	N/A
2115 1	Accessibility to outdoor equipment bare parts	MULL MULL MULL ON	N/A
5.3.2.2	Contact requirements	at at all all	N/A
n in	Test with test probe from Annex V	weir wer we we	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	at art test trest	N/A
5.3.2.2 b)	Air gap – distance (mm)	TIL MUT MUT ME	N/A
5.3.2.3	Compliance	ex lex tex text	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	t tet tet with mi	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	AL STEE MITE	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)	LIFE P
5.4.1.5	Pollution degrees	ry mir my min	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* Writer writer writer on	N/A
5.4.1.5.3	Thermal cycling test	at alt alt of	N/A
5.4.1.6	Insulation in transformers with varying dimensions	MILL ME ME ME ME	N/A
5.4.1.7	Insulation in circuits generating starting pulses	et et jet jet	N/A
5.4.1.8	Determination of working voltage	bry Mur My My	N/A
5.4.1.9	Insulating surfaces	et jet jet sjet	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	THE THE	N/A
5.4.1.10.2	Vicat test	Write Mer My M.	N/A
5.4.1.10.3	Ball pressure test	et set set set	N/A
5.4.2	Clearances	nut aut aug au	N/A
5.4.2.1	General requirements	LEK TEK STEK STEK	N/A
- C., -	Clearances in circuits connected to AC Mains,	The me me	N/A
	Alternative method	s state of	16 TU.



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	Mer Aug Man	N/A
5.4.2.3.2.2	a.c. mains transient voltage	TER LIER ALIER	Write -
5.4.2.3.2.3		mer mer m	.k _
5.4.2.3.2.4	External circuit transient voltage	LIFE ALIEN WALLER	PLTE
5.4.2.3.2.5	Transient voltage determined by measurement	12 11 20 0	<i></i>
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE WITTER WITTER WAY	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	MULTER MULTER WALLE	N/A
5.4.2.6	Clearance measurement	TER LIER NATER	N/A
5.4.3	Creepage distances	1112 1112 111	N/A
5.4.3.1	General	LIEF NITES WITES	N/A
5.4.3.3	Material group	711 711 71	* -
5.4.3.4	Creepage distances measurement	EL MIET MAIE MAL	N/A
5.4.4	Solid insulation	** * * * **	N/A
5.4.4.1	General requirements	White Wall Wall	N/A
5.4.4.2	Minimum distance through insulation	The state of the s	N/A
5.4.4.3	Insulating compound forming solid insulation	and the same of	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	in mer mer m	N/A
5.4.4.6	Thin sheet material	the text text site	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LITTE STEET	N/A
	Number of layers (pcs)	me me	N/A
5.4.4.6.3	Non-separable thin sheet material	TEX TEX MITER OF	N/A
+ 2+	Number of layers (pcs)	1. 24. 2. 2.	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	EX MULTER MULTER MUL	N/A
5.4.4.6.5	Mandrel test	- TEK TEK TEK	N/A
5.4.4.7	Solid insulation in wound components	Mr. Mr. M.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	WALTER WALTER WALTER	N/A
TEX WILE	Alternative by electric strength test, tested voltage (V), K _R	LIER WILLER WALLER	N/A
5.4.5	Antenna terminal insulation	a a at at	+ N/A
5.4.5.1	General	E WILL MALL MALL	N/A
5.4.5.2	Voltage surge test	L A A	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.3	Insulation resistance (MΩ)	And And And	N/A
Mrs. M	Electric strength test	ALTER MATE MALTE	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	TEX TEX NUTER	N/A
5.4.7	Tests for semiconductor components and for cemented joints	of the text	N/A
5.4.8	Humidity conditioning	s me me m	N/A
WALTER OF	Relative humidity (%), temperature (°C), duration (h)	ANLIER WALTER WALTE	wit -
5.4.9	Electric strength test	at at at	N/A
5.4.9.1	Test procedure for type test of solid insulation	West with the	N/A
5.4.9.2	Test procedure for routine test	at let let	N/A
5.4.10	Safeguards against transient voltages from external circuits	is any one of	N/A
5.4.10.1	Parts and circuits separated from external circuits	e with mer and	N/A
5.4.10.2	Test methods	A A A	N/A
5.4.10.2.1	General	MULL MULL MULL	N/A
5.4.10.2.2	Impulse test	at the	N/A
5.4.10.2.3	Steady-state test	- 1 m 1	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TE WALL WALL WA	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	Murr Murr Murr	N/A
5.4.11.2	Requirements	WILL MULL MULL	N/A
LIFEY WALTE	SPDs bridge separation between external circuit and earth	TEX STEX STEX S	N/A
	Rated operating voltage U _{op} (V)		
MULL	Nominal voltage U _{peak} (V)	IEK WITER WITE MUTE	- 1 ¹ 1
TEK	Max increase due to variation U _{sp}	L AL A	_
21/27 21	Max increase due to ageing U _{sa}	WILL WILL MILL	The -
5.4.11.3	Test method and compliance	A ct ct	N/A
5.4.12	Insulating liquid	WILL MULL MULL	N/A
5.4.12.1	General requirements	at all all	N/A
5.4.12.2	Electric strength of an insulating liquid	The Mer Mer M	N/A
5.4.12.3	Compatibility of an insulating liquid	at the the	N/A
5.4.12.4	Container for insulating liquid	Mur. Mr. M.	N/A
5.5	Components as safeguards	. At At Jet	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
5.5.1	General	No such components as safeguards.	N/A	
5.5.2	Capacitors and RC units	any any any any	N/A	
5.5.2.1	General requirement	TEX TEX WITH MIT	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	of the text item	N/A	
5.5.3	Transformers	in my my m	N/A	
5.5.4	Optocouplers	t get get get	N/A	
5.5.5	Relays	Mr. Mr. M. A	N/A	
5.5.6	Resistors	TEX STEX STEX ON	N/A	
5.5.7	SPDs / July July July July July July July July	me me me	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIFET WILLES WHITE WHITE	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	EX MITEX MATER MALTER	N/A	
JEK.	RCD rated residual operating current (mA)	at at all		
5.6	Protective conductor		N/A	
5.6.2	Requirement for protective conductors	A A A A A	N/A	
5.6.2.1	General requirements	Class III equipment	N/A	
5.6.2.2	Colour of insulation	The Life	N/A	
5.6.3	Requirement for protective earthing conductors	C. Mr. Mr. M.	N/A	
MITE	Protective earthing conductor size (mm²)	of the tief stief	_ ``in	
TIEF .	Protective earthing conductor serving as a reinforced safeguard	the the tex	N/A	
7674 . 1 201	Protective earthing conductor serving as a double safeguard	with men my m	N/A	
5.6.4	Requirements for protective bonding conductors	NITE WALTER WALTE WALTE	N/A	
5.6.4.1	Protective bonding conductors	s at at at	N/A	
m	Protective bonding conductor size (mm²)	The Walt Aut.	24	
5.6.4.2	Protective current rating (A)	- at at at	N/A	
5.6.5	Terminals for protective conductors	men men men w	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	WITER WATER WATER WATER	N/A	
TEK WALTE	Terminal size for connecting protective bonding conductors (mm)	TEX SLEEK OUTER MUTE	N/A	
5.6.5.2	Corrosion	20 20 X	N/A	
5.6.6	Resistance of the protective bonding system	CERT ONLIER SMITHER SMITHER	N/A	
5.6.6.1	Requirements	1 × 1× 11×	N/A	
5.6.6.2	Test Method	ALTER MITE MILITAN	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
n.	All the state of	The Will Will Mr. W.	711
5.6.6.3	Resistance (Ω) or voltage drop		N/A
5.6.7	Reliable connection of a protective earthing conductor	White white white white	N/A
5.6.8	Functional earthing	STER STER WITER SOUTH	N/A
A .01	Conductor size (mm²)	the state of the	N/A
July .	Class II with functional earthing marking	TEX SLIER WITER WALTER OF	N/A
. Like	Appliance inlet cl &cr (mm)	the transfer of	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	10 x 2+ 12	N/A
5.7.2.1	Measurement of touch current	RETER WITE WALL WALL	N/A
5.7.2.2	Measurement of voltage	in the set set	N/A
5.7.3	Equipment set-up, supply connections and earth connections	Life While while while	N/A
5.7.4	Unearthed accessible parts	EX SLIER WLIE WILL W	N/A
5.7.5	Earthed accessible conductive parts	711	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White white white whi	N/A
MILLE WAS	Protective conductor current (mA)	ALL MITE MITE	N/A
st se	Instructional Safeguard	7 7 7	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	TE WHITE WHITE WHITE	N/A
5.7.7.1	Touch current from coaxial cables	IN THE STEP STEEL W	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	AND AND REF. THE	N/A
5.7.8	Summation of touch currents from external circuits	and with any will	N/A
* ""	a) Equipment connected to earthed external circuits, current (mA)	NITE WALL WALL WALL	N/A
MULL	b) Equipment connected to unearthed external circuits, current (mA)	TEX WALTER WALTER WALTER	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
7	Mains terminal ES	No battery used	N/A
STE IS	Air gap (mm)	at at the the	N/A

6	ELECTRICALLY- CAUSED FIRE		NITE PINITE
6.2	Classification of PS and PIS	Mur Mur Mur An An An	Р
6.2.2	Power source circuit classifications	All circuits are considered to be PS2 circuits.	Р
6.2.3	Classification of potential ignition sources	at the tilt till	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
one i		The state of the s	7/1/2
6.2.3.1	Arcing PIS	All internal circuits are not considered as arcing PIS.	t alter
	Whitek whitek whitek whitek white	They are supplied by external power supply whose open voltage is less than 50V.	N/A
6.2.3.2	Resistive PIS	The same of the sa	Р
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
nec in	Combustible materials outside fire enclosure	ALTER ANTIC MALL WALL	√ P
6.4	Safeguards against fire under single fault condit	tions	P
6.4.1	Safeguard method	Method by control of fire spread applied	P ⁴
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX WHITE MUTTE MUTTE ON	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Whitek whitek whitek whi	N/A
6.4.3.1	Supplementary safeguards	it itek sitek	N/A
6.4.3.2	Single Fault Conditions	2 24 24	N/A
SER ANLIE	Special conditions for temperature limited by fuse	THE THE LIFE LIFE	N/A
6.4.4	Control of fire spread in PS1 circuits	S. Mr. M. M.	N/A
6.4.5	Control of fire spread in PS2 circuits	of the lift aliet in	Р
6.4.5.2	Supplementary safeguards	me m m	Р
6.4.6	Control of fire spread in PS3 circuits	TER ALTER MITER MALT	N/A
6.4.7	Separation of combustible materials from a PIS	m m m	N/A
6.4.7.2	Separation by distance	LIER SLIER SPLIES SWITE	N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	itt mitter unite unit u	N/A
6.4.8.2	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier	inite mility with whi	N/A
6.4.8.2.2	Requirements for a fire enclosure	a st set set	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Marie Marie Marie Marie	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	LIER WILLER WILLER WILLIAM	N/A
6.4.8.3.2	Fire barrier dimensions	1	N/A
6.4.8.3.3	Top openings and properties	ex write write wi	N/A
A EX	Openings dimensions (mm)	a at at a	N/A
6.4.8.3.4	Bottom openings and properties	WILL MUT MUT MUT	N/A

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- m	Openings dimensions (mm)	TE WILL MILL MAN W	N/A	
CLIER II	Flammability tests for the bottom of a fire	THE THE THE	N/A	
771. 22	enclosure	wing my me in	IN/A	
The Mari	Instructional Safeguard	TEX LIEX OLIER OFFE	N/A	
6.4.8.3.5	Side openings and properties	14. 14. 20. 2.	N/A	
Wille	Openings dimensions (mm)	TER STIER WITER WITER	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	t tet tet stet stet o	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	are are are set	N/A	
6.4.9	Flammability of insulating liquid	MULL MULL MULL MULL	N/A	
6.5	Internal and external wiring	at left test steet	CITE P	
6.5.1	General requirements	Irre Mer Mer My	Р	
6.5.2	Requirements for interconnection to building wiring	EX MITEL MITEL MITEL	N/A	
6.5.3	Internal wiring size (mm2) for socket-outlets	and the state of	N/A	
6.6	Safeguards against fire due to the connection to additional equipment		Р	
<i></i>	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	W P	
7.2	Reduction of exposure to hazardous substances		N/A	
7.3	Ozone exposure	ite lite all antie	N/A	
7.4	Use of personal safeguards or personal protec	tive equipment (PPF)	N/A	
Chille.	Personal safeguards and instructions	tive equipment (FT E)	14//	
7.5	Use of instructional safeguards and instruction		N/A	
1.5%	Instructional safeguard (ISO 7010)	O THE THE WITH WAS	INA	
7.6	Batteries and their protection circuits	an are at all	— Р	
1.0	Batteries and their protection circuits	INCIER WILL MILLS	100	
8	MECHANICALLY-CAUSED INJURY		Р	
8.2	Mechanical energy source classifications	it with the same	Р	
8.3	Safeguards against mechanical energy sources	t at at aut.	of P	
8.4	Safeguards against parts with sharp edges and corners		Р	
8.4.1	Safeguards	let let let let let	P	
THE THE	Instructional Safeguard:	MS1: Edges and corners of enclosure	Р	
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р	
8.5	Safeguards against moving parts	THE OLIFE WITTER WITTER	N/A	

No moving parts.

N/A

8.5.1

Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts



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Clause	Deguirement Teet	Boault Bemark	Vordiet
Clause	Requirement – Test	Result – Remark	Verdict
NITER NO	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
2	Moving MS3 parts only accessible to skilled person	an an an	N/A
8.5.2	Instructional safeguard	TEX STEX STEX WITE	N/A
8.5.4	Special categories of equipment containing moving parts	of the text text	N/A
8.5.4.1	General	in the the the	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	t tet tet atter mi	N/A
8.5.4.2.1	Protection of persons in the work cell	my my m	N/A
8.5.4.2.2	Access protection override	TEX LIEK WILL WILL	N/A
8.5.4.2.2.1	Override system	Mr. Mr. M. M.	N/A
8.5.4.2.2.2	Visual indicator	LIER OLIER WITE WALLE	N/A
8.5.4.2.3	Emergency stop system	the state of	N/A
ani .	Maximum stopping distance from the point of activation (m)	EL MULLE MULLE MULLE M	N/A
Mrzz M	Space between end point and nearest fixed mechanical part (mm):	White White White White	N/A
8.5.4.2.4	Endurance requirements	at The street	N/A
SEK STEK	Mechanical system subjected to 100 000 cycles of operation	To the let	N/A
10	- Mechanical function check and visual inspection	The Mer Mer 2	N/A
ELITER .	- Cable assembly	t tet tet with a	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	Me and the are	N/A
8.5.4.3.1	Equipment safeguards	with mir me me	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	ch set set set	N/A
8.5.4.3.3	Disconnection from the supply	We me me me	N/A
8.5.4.3.4	Cut type and test force (N):	EK TEK ITEK NITEK (N/A
8.5.4.3.5	Compliance	, my my m, m,	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
<i>*</i>	Explosion test:	211, 21, 21,	N/A
8.5.5.3	Glass particles dimensions (mm):	SLIER OLIER MATERIALITY	N/A
8.6	Stability of equipment	Chr. Ch.	N/A
8.6.1	General	MS1: Mass of the unit	N/A
t Tex	Instructional safeguard		N/A
8.6.2	Static stability	MULL MULL MULL M	N/A
8.6.2.2	Static stability test		N/A



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Clause	EN IEC 62368-	2 41 40 7	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.6.2.3	Downward force test	With the sure of	N/A
8.6.3	Relocation stability	OLITER WHITE WHITE WAS	N/A
All C	Wheels diameter (mm):	and the second	t Set
Vr. 24	Tilt test	WILL MULL MULL MULL	N/A
8.6.4	Glass slide test	A CH LEK TEK	N/A
8.6.5	Horizontal force test:	its more mur mus.	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	TER TER STEEL WIT	N/A
- AL	Test 1, additional downwards force (N):	me me in a	N/A
LIE WALL	Test 2, number of attachment points and test force (N)	LIEK WHITEK WHITE WHITE	N/A
WALTER	Test 3 Nominal diameter (mm) and applied torque (Nm):	EX MITEX WHITEX WHITEX	N/A
8.8	Handles strength		N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	the state of	N/A
1, 20	Number of handles:	A SHULL AND	10 -
TEX WILLE	Force applied (N)	THE THE STEEL	NITER OF
8.9	Wheels or casters attachment requirements	er mer mer m	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	Mr. Mr. M.	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	LET LET LIET LIET	N/A
8.10.3	Cart, stand or carrier loading test	by my my my	N/A
er onlie	Loading force applied (N):	et tet tet witer	N/A
8.10.4	Cart, stand or carrier impact test	110, 11, 11,	N/A
8.10.5	Mechanical stability	- LIET WILET WILLIAM	N/A
- A-	Force applied (N):	24, 24	* *
8.10.6	Thermoplastic temperature stability	CLIFF WITE WITE WALL	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	s at at at	N/A
de	Instructional Safeguard:	WHITE WALL WALL OF	N/A
8.11.3	Mechanical strength test	4 4 4	N/A



ale	EN IEC 62368	-17 CLIFE WILL WALL	10. 21
Clause	Requirement – Test	Result – Remark	Verdict
8.11.3.1	Downward force test, force (N) applied:	the suit sure one on	N/A
8.11.3.2	Lateral push force test	t tek stek milet smit	N/A
8.11.3.3	Integrity of slide rail end stops	The American	N/A
8.11.4	Compliance	LIEN NITER MILITER MILITER	N/A
8.12	Telescoping or rod antennas	and the set	N/A
, and	Button/ball diameter (mm)	No such parts	_
9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications	70 7 7 7	Р
9.3	Touch temperature limits	ALTER WITER WALLER WALL	JII P
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	NUTE P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy sources	TEX STEE WITE SUITE SU	Р
9.5	Requirements for safeguards		
9.5.1	Equipment safeguard	TS1	T P
9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	7 1 1 1 1 1	N/A
9.6.1	General	TE OUT WITH WAITE	N/A
9.6.2	Specification of the foreign objects	The state of	N/A
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A
10	RADIATION	LIEK NITER MITER MALIE	UN P
10.2	Radiation energy source classification	m m w	Р
10.2.1	General classification	See below	P.
et et	Lasers:	A A A	7EX-
4112	Lamps and lamp systems:	RS1: LED (exempt group), See IEC/EN 62471 test report.	* <u>""</u>
WILL	Image projectors:	the lift with anith and	MALI
J.	X-Ray:	7/1 7/1 2/2	<u> </u>
iner and	Personal music player:	NITER MILE WALTE WALTE	Mr.
10.3	Safeguards against laser radiation	The same of the sa	N/A
- W.	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	os and lamp systems	Р
201			

LED indication light: Classed

Ρ

General requirements

10.4.1



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16 0				
U. CIL	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	

_t	ex tex tex tire with my	as RS1 (Exempt Group)	A 15
Meric M	Instructional safeguard provided for accessible radiation level needs to exceed	White Write White WA	N/A
LIFE MIL	Risk group marking and location:	THE THE LITTER NATED	N/A
	Information for safe operation and installation	ing the many	N/A
10.4.2	Requirements for enclosures	CER TEX TEX STEE	N/A
, t	UV radiation exposure:	41. 41. 11.	N/A
10.4.3	Instructional safeguard	t TEX STEE WITE N	N/A
10.5	Safeguards against X-radiation	44 44 4	N/A
10.5.1	Requirements	No X-radiation	N/A
A A	Instructional safeguard for skilled persons	the things of the same of the	_
10.5.3	Maximum radiation (pA/kg)	LIEF WILL WALLE	s —
10.6	Safeguards against acoustic energy sources	a state	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	A A A A A	N/A
m, a	Acoustic output L _{Aeq,T} , dB(A):	White Mile Mile Mile	N/A
Cler N	Unweighted RMS output voltage (mV):	A THE STE	N/A
1, 20,	Digital output signal (dBFS)	The The Aug	N/A
10.6.3	Requirements for dose-based systems	The Lift	N/A
10.6.3.1	General requirements	regularity mer mer.	N/A
10.6.3.2	Dose-based warning and automatic decrease	the tell tell steel of	N/A
10.6.3.3	Exposure-based warning and requirements	Mr. Mr. M. A.	N/A
in Liter of	30 s integrated exposure level (MEL30):	TEX LIER SLIER WIL	N/A
	Warning for MEL ≥ 100 dB(A):	The same of	N/A
10.6.4	Measurement methods	TER STEE WITE WITE	N/A
10.6.5	Protection of persons	1. 201 2.	N/A
Mille	Instructional safeguards	IEV NITER WITE WHITE A	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	- Tex Tex Wifex W	N/A
10.6.6.1	Corded listening devices with analogue input	Mr. Mr. An	N/A
VILL MU	Listening device input voltage (mV)	TEX STEX OUTER MUTE	N/A
10.6.6.2	Corded listening devices with digital input	The The The The	N/A
MULL	Max. acoustic output L _{Aeq,T} , dB(A)	LIER OLIER WALLER WALLER	N/A
10.6.6.3	Cordless listening devices	100 200	N/A
WILL.	Max. acoustic output L _{Aeq,T} , dB(A):	CENTER WITE WITE WITE W	N/A



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Life Military	The Me all a	EN IEC 62368-	Tier mires whiles	White Mile Mile
Clause	Requirement – Test	The April 2012 To	Result – Remark	Verdict

В	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING ITION TESTS	P
B.1	General The Trib Trib Trib Trib Trib Trib Trib Trib		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
WALTER	Audio Amplifiers and equipment with audio amplifiers:	t united whitek whitek white	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc or 9Vdc	Р
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	at let the title.	Р
B.3.1	General	(See appended table B.3, B.4)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
2,	Instructional safeguard	an m m	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	SHE STATE MITTER	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	No such audio amplifier	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	F P
B.4	Simulated single fault conditions	my my my	Р
B.4.1	General	THE STEE STEEL SOUTH	P
B.4.2	Temperature controlling device	(See appended table B.3, B.4)	Р
B.4.3	Blocked motor test	(See appended table B.3, B.4)	Р
B.4.4	Functional insulation	See below.	μP
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3, B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3, B.4)	- Pr
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3, B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.3, B.4)	Р



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	EN IEC 6236	(1) (1) (2)	
Clause	Requirement – Test	Result – Remark	Verdict
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	(See appended table B.3, B.4)	P
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	LIEF WILL WHILL A	N/A
C.2	UV light conditioning test	an a state	N/A
C.2.1	Test apparatus	it in the with mill on	N/A
C.2.2	Mounting of test samples	and the state of	N/A
C.2.3	Carbon-arc light-exposure test	E WALLE WALL THE MAN	N/A
C.2.4	Xenon-arc light-exposure test	At July 18th	N/A
D	TEST GENERATORS	and the same	N/A
D.1	Impulse test generators	THE THE	N/A
D.2	Antenna interface test generator	aver and and any a	N/A
D.3	Electronic pulse generator	THE THE THE STEEL ON	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTA	INING AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for auc	dio signals	N/A
	Maximum non-clipped output power (W)	: We say say say	, ,
The Marin	Rated load impedance (Ω)	THE STEE WITE WITE	NUTY -
at alt	Open-circuit output voltage (V)	The many	, at -
Mr.	Instructional safeguard	diet mile unite white wh	r, fau,
E.2	Audio amplifier normal operating conditions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
7112 7	Audio signal source type	te antie mit anti with	als.
TEK S	Audio output power (W)	at at let let	N. C. C.
L 14,	Audio output voltage (V)	inti mai mat ma	'an _ '
TER OUTE	Rated load impedance (Ω)	is the text the	CLIEB-JU
2,,	Requirements for temperature measurement	Mr. C. Mur. Mur. Mur. A	N/A
E.3	Audio amplifier abnormal operating conditions	at at let let .	N/A



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o l		with the line in		1000
75	-22		EN IEC 62368-1	25.
	Clause	Requirement – Test	Result – Remark	Verdict

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Par
F.1	General	me me me	Р
LITET JAL	Language:	English	
F.2	Letter symbols and graphical symbols	ne me me	, P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	WALTER WALTER
F.3	Equipment markings	it let tet stet .	UE P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P"
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	P
F.3.3	Equipment rating markings	See below for details.	Р
F.3.3.1	Equipment with direct connection to mains	The life of the party of	N/A
F.3.3.2	Equipment without direct connection to mains	Rated input 5Vdc or 9Vdc	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	P
F.3.3.4	Rated voltage	See copy of marking plate.	P
F.3.3.5	Rated frequency	DC supply	N/A
F.3.3.6	Rated current or rated power	See copy of marking plate.	P
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	THE WALL WALL WALL ON	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	- NIET NIET ANIET WILL	N/A
F.3.5.2	Switch position identification marking	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
F.3.5.3	Replacement fuse identification and rating markings	White while while while	N/A
The WALL	Instructional safeguards for neutral fuse	TEX SITER NITER MITE OF	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	70	N/A



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01	EN IEC 62368-	2, 41, 72, 2	\/1: -4
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	They are any	N/A
F.3.6.1.1	Protective earthing conductor terminal	THE THE LITTER WITE	N/A
F.3.6.1.2	Protective bonding conductor terminals	in the the	N/A
F.3.6.2	Equipment class marking	TER SITER OUTER WATER ON	N/A
F.3.6.3	Functional earthing terminal marking	711 111	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	AUT.
F.3.8	External power supply output marking	No such parts.	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	ntiff P
F.3.10 F. WALTER WALTER	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.	THE P
F.4	Instructions	E White Mure Mure Mure	Р
CLIER OF	a) Information prior to installation and initial use	See user manual	Р
767 . Z	b) Equipment for use in locations where children not likely to be present	min and any an	N/A
in the	c) Instructions for installation and interconnection	MILE MALL MALL MALL	N/A
ek whitek	d) Equipment intended for use only in restricted access area	EX STEX STEX SUSTEX SU	N/A
A.	e) Equipment intended to be fastened in place	m w	N/A
aller a	f) Instructions for audio equipment terminals	miter antity water water	N/A
At .	g) Protective earthing used as a safeguard	The state of the s	N/A
ing an	h) Protective conductor current exceeding ES2 limits	Murre Murre Murre Murre	N/A
MULL	i) Graphic symbols used on equipment	TEX SITE MITTER MAILER	N/A
k mijek	j) Permanently connected equipment not provided with all-pole mains switch	at the state of	N/A
all the	k) Replaceable components or modules providing safeguard function	me in the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
ne.		ET WILL WALL WALL	me me
	Equipment containing insulating liquid		N/A
me m	m) Installation instructions for outdoor equipment	WILLIAM STATE STATES A	N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS	7/1. P.1	
G.1	Switches		N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	L St SET SET	N/A
G.1.3	Test method and compliance	Mury Mur Mur	N/A
G.2	Relays	at at at	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	et let let l	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	t it it it	N/A
G.2.4	Test method and compliance	white mer me	N/A
G.3	Protective devices	L st set set	N/A
G.3.1	Thermal cut-offs	No such component	N/A
INLIEK WAL	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	THE WAITER WA	N/A
TEX WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The time with their	N/A
G.3.1.2	Test method and compliance	111 13	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	THE STEP STEP	N/A
d.	b) Thermal links tested as part of the equipment	24 24 24 24 2	N/A
G.3.2.2	Test method and compliance	TEX TEX NITE IN	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	- Tek Tek Stek	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	The sale of	N/A
G.3.5.2	Single faults conditions:	MUTE MUTE MUTE AN	N/A
G.4	Connectors	at at at o	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	of the the time	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	mi mi vin	N/A



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Clause	Requirement – Test	Result – Remark	Verdict		
C.E.	Wound components	NITER WILL MILL MINE SHIP	NI/A		

Clause	Trequirement – Test	Itesuit – Itemark	Verdict
G.5	Wound components	the state of the s	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	No such component	N/A
G.5.2	Endurance test	TEN TEN LIEN NET	N/A
G.5.2.1		WELL CHELL WILL AM	N/A
G.5.2.1	General test requirements	CET STEP STEP	- (° - 10)
J.3.Z.Z	Heat run test	is the the th	N/A
- W 17 W	Test time (days per cycle):	L THE NEET STEEL	<u> </u>
	Test temperature (°C):	14. 14. 14. 2	
3.5.2.3	Wound components supplied from the mains	LET THE THE STATE	N/A
G.5.2.4	No insulation breakdown	24. 24. 25. 2.	N/A
G.5.3	Transformers	TEX STEX STEEL WITE	N/A
G.5.3.1	Compliance method	1 10 10 1	N/A
arti.	Position	et liet niter mile	N/A
	Method of protection	141, 12, 2	N/A
G.5.3.2	Insulation	LIEK WIEK WILL M	N/A
<i>i</i>	Protection from displacement of windings:		.t -
3.5.3.3	Transformer overload tests	THE MALL	N/A
G.5.3.3.1	Test conditions		N/A
3.5.3.3.2	Winding temperatures	TEN WITE WALL WALL	N/A
3.5.3.3.3	Winding temperatures - alternative test method	and the state	N/A
3.5.3.4	Transformers using FIW	THE WALL MALL V	N/A
G.5.3.4.1	General	at at at	N/A
12 24	FIW wire nominal diameter	antite met met m	_
G.5.3.4.2	Transformers with basic insulation only	at at the se	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	West of the	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	The Marie Marie Way	N/A
G.5.3.4.5	Thermal cycling test and compliance	LIE WITE WAITE W	N/A
3.5.3.4.6	Partial discharge test	20 Jan 74	N/A
G.5.3.4.7	Routine test	OLIER WILL MILE WILL	N/A
3.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	LIET WALL WALL WALL	N/A
3.5.4.2	Motor overload test conditions	1 1 1 11	N/A
3.5.4.3	Running overload test	CONTRACTOR MALE	N/A
G.5.4.4.2	Locked-rotor overload test	1 1 1	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Oladoc	Trequirement Test	rtodit rtomant	Verdiet
- J+	Test duration (days):	M. 20, 20, 20	_
G.5.4.5	Running overload test for DC motors	ALTER MILES MALTER	N/A
G.5.4.5.2	Tested in the unit	The state of	N/A
G.5.4.5.3	Alternative method	RITER WALL WALL WA	N/A
G.5.4.6	Locked-rotor overload test for DC motors	s state at	N/A
G.5.4.6.2	Tested in the unit	TE WILL WILL WILL	N/A
- Little	Maximum Temperature	L of the Alt	N/A
G.5.4.6.3	Alternative method	MUNITED MALE WALL	N/A
G.5.4.7	Motors with capacitors	et et set	N/A
G.5.4.8	Three-phase motors	Mer Mer Mer A	N/A
G.5.4.9	Series motors	ret tet tet si	N/A
	Operating voltage:	er me me m	
G.6	Wire Insulation	CEL STEP STEP STEP	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	LIER STER WITE	N/A
G.7	Mains supply cords	W. W. W.	N/A
G.7.1	General requirements	No such component	N/A
et let	Type:		et -
G.7.2	Cross sectional area (mm² or AWG):	LIE WITE WALL WALL	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	* street street sources	N/A
G.7.3.2	Cord strain relief	111 10	N/A
G.7.3.2.1	Requirements	LIFE MITE WALLE	N/A
it is	Strain relief test force (N)	The state of	N/A
G.7.3.2.2	Strain relief mechanism failure	ALTER INLIER WALTE WA	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material	THE WALL WALL WALL	N/A
G.7.4	Cord Entry	L A At At	N/A
G.7.5	Non-detachable cord bend protection	WALL MUT AUT	N/A
G.7.5.1	Requirements	at at the	N/A
G.7.5.2	Test method and compliance	MUTT MUTT MUT M	N/A
TEK WALTE	Overall diameter or minor overall dimension, <i>D</i> (mm)	Test writest writest write	7 -
t TEX	Radius of curvature after test (mm):	a at at at	_
G.7.6	Supply wiring space	White Mrt. Mrt.	N/A
G.7.6.1	General requirements	at at at	N/A



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20,	EN IEC 62368-	12 mi with we	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
Mr.		THE MITTER WALL WALL	me an
G.7.6.2	Stranded wire	10° 1	N/A
G.7.6.2.1	Requirements	ALTER WALTER WALTER	N/A
G.7.6.2.2	Test with 8 mm strand	211 2	N/A
G.8	Varistors	INLIER WALTER WALTER WIN	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	I'EL WALL WALL WALL	N/A
G.8.2.1	General	e st set set	N/A
G.8.2.2	Varistor overload test	MALL MAL WALL	N/A
G.8.2.3	Temporary overvoltage test	at at 1st	N/A
G.9	Integrated circuit (IC) current limiters	Merr Merr Mer N	N/A
G.9.1	Requirements	No such component	N/A
20	IC limiter output current (max. 5A)	the mer mer me	_
MITE	Manufacturers' defined drift:	CH THE STATE	in
G.9.2	Test Program	mr. m. m.	N/A
G.9.3	Compliance	TEX STEE STEE	N/A
G.10	Resistors	Mr. Mr. Mr.	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	THE WITE WITE WILL	N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test	ALTER MITTER MALTER	N/A
G.10.6	Overload test	1 1 1	N/A
G.11	Capacitors and RC units	MITE WALTE WALTE	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	WILL MULLE MUST MIN	N/A
G.11.3	Rules for selecting capacitors	a at at at	N/A
G.12	Optocouplers	The men we	N/A
WALTER	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
CENT C	Type test voltage V _{ini,a} :	* * *	18th -
1, 14	Routine test voltage, V _{ini, b} :	Write Muric Muris M	_
G.13	Printed boards	1 1 1 1	Ø O P
G.13.1	General requirements	LIE WALL WILL WALL WALL	P
G.13.2	Uncoated printed boards	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P.
G.13.3	Coated printed boards	The state of the s	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
0.40.4		it write war and	7/2 7/1	
G.13.4	Insulation between conductors on the same inner surface	THE THE THE	N/A	
G.13.5	Insulation between conductors on different surfaces	Mrs. Mrs. Mrs.	N/A	
20	Distance through insulation:	Will Muly Mun M	N/A	
IEW CLIER	Number of insulation layers (pcs)	at let let is	<i></i>	
G.13.6	Tests on coated printed boards	in the the	N/A	
G.13.6.1	Sample preparation and preliminary inspection	t get get with	N/A	
G.13.6.2	Test method and compliance	Mer Me Me	N/A	
G.14	Coating on components terminals	THE LIES STEEL	N/A	
G.14.1	Requirements ::	216 211 24 24 2	N/A	
G.15	Pressurized liquid filled components	TEX SITER OUTER AND	N/A	
G.15.1	Requirements	No such component	N/A	
G.15.2	Test methods and compliance	EK NITER WITE WITE	N/A	
G.15.2.1	Hydrostatic pressure test	70, 20, 7	N/A	
G.15.2.2	Creep resistance test	CITER INLIER WALLE	N/A	
G.15.2.3	Tubing and fittings compatibility test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.15.2.4	Vibration test	MALE W	N/A	
G.15.2.5	Thermal cycling test	- L	o N/A	
G.15.2.6	Force test	The WALL MAL MAN	N/A	
G.15.3	Compliance	a start set	N/A	
G.16	IC including capacitor discharge function (ICX)	MUCE MULE MU	N/A	
G.16.1	Condition for fault tested is not required	No such component	N/A	
in a	ICX with associated circuitry tested in equipment	we me me	N/A	
LIE MIT	ICX tested separately	THE THE LITTER OF	N/A	
G.16.2	Tests	ing the man	N/A	
MULTE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	THE WALTER WALTER WALTE		
WALTER	Mains voltage that impulses to be superimposed on	A WITER MUTER WALTER	unii –	
INLIEK WIN	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	THE STIEF WITHER W	ALTEK —	
G.16.3	Capacitor discharge test:	24. 24. 2. 2. 2.	N/A	
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A	
H.1	General Control of the Control of th	, , , , , , , , , , , , , , , , , , ,	N/A	
H.2	Method A	THE WILL MALLE MALLE	N/A	
H.3	Method B	1,00	N/A	



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- "	EN IEC 62368-	2, 3, 3, 3,	20. 0.
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the test step	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STER	<u> </u>
H.3.1.4	Single fault current (mA):	, Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t jet sjet miet mi	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and an area att	N/A
H.3.2.2	Tripping device	mur mur mur mi	N/A
H.3.2.3	Monitoring voltage (V):	THE THE LITTER SLITER	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUSULATION	OUT INTERLEAVED	N/A
J.1	General	it will me me in	N/A
CLIER N	Winding wire insulation:	the text little of	,¢ —
da a	Solid round winding wire, diameter (mm):	Mr. Mr. Mr. M.	N/A
NLTER WAL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	the state	NITER TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
TEK .	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	at at telt the	N/A
K.4	Interlock safeguard override	NUTTE MUTE AND MUTE AND	N/A
K.5	Fail-safe	at let tet tet	N/A
K.5.1	Under single fault condition	ave and an a	N/A
K.6	Mechanically operated safety interlocks	of the test ties in	N/A
K.6.1	Endurance requirement	Me Me M. M.	N/A
K.6.2	Test method and compliance	TEX STEX ONLY	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET WHITEK WHITEK WHITE	N/A
WALTE	In circuit connected to mains, separation distance for contact gaps (mm):	Et anifet while while of	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	Lifet stifet stifet stifet	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Jiddae	1. Coquitorità 1 cot	Troodic Troffiding	Volunt
WILLER OF	Electric strength test before and after the test of K.7.2	THE THE STEE WITH	N/A
K.7.2	Overload test, Current (A)	and any any	N/A
K.7.3	Endurance test	TEX TEX NIET MITE	N/A
K.7.4	Electric strength test	The Marian and Marian	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	111 12	N/A
L.2	Permanently connected equipment	the relief with white will	N/A
L.3	Parts that remain energized	The state of	N/A
L.4	Single-phase equipment	CLIEB WILL WALL WALL	N/A
L.5	Three-phase equipment	The state of	N/A
L.6	Switches as disconnect devices	LIE WILL WHILL WILL !	N/A
L.7	Plugs as disconnect devices	at the set	N/A
L.8	Multiple power sources	the write much with m	N/A
JEK	Instructional safeguard	at at the st	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		P
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards	IEC 62133-2:2017 considered. See test report.	P
M.3	Protection circuits for batteries provided within the equipment	A STEE WIFE MILES WALTER WAY	EK P.S
M.3.1	Requirements	and the second	P.
M.3.2	Test method	CHIEF WILL MALL WALL	AL P
all s	Overcharging of a rechargeable battery	and the state of the	P
n 241.	Excessive discharging	ALTE WALL WALL WALL	N P
ex writex	Unintentional charging of a non-rechargeable battery	Rechargeable Li-ion battery used.	N/A
WALTER	Reverse charging of a rechargeable battery	The design of the connector prevents reverse polarity connections.	N/A
M.3.3	Compliance	(See appended table M.3)	P
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		P
M.4.1	General	LIE WALTE WALL WALL V	Р
M.4.2	Charging safeguards	s of ot of	C PO
M.4.2.1	Requirements	COUNTY MUST MAKE MY	Р
M.4.2.2	Compliance:	(See appended table M.4.2)	Р



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	EN IEC 62368-	2 41 74 2	
Clause	Requirement – Test	Result – Remark	Verdict
M.4.3	Fire enclosure:	PS2 battery, fire enclosures or barriers required	P
M.4.4	Drop test of equipment containing a secondary lithium battery	(See appended table M.4.4)	Р
M.4.4.2	Preparation and procedure for the drop test	Vill Mer Aug Aug	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%.	THE P
M.4.4.4	Check of the charge/discharge function	a start of the	P
M.4.4.5	Charge / discharge cycle test	White White Mine And	Р
M.4.4.6	Compliance	at at the sale	Р
M.5	Risk of burn due to short-circuit during carrying	gotte were were were	Р
M.5.1	Requirement	No bare conductive terminal used	INITE P
M.5.2	Test method and compliance	and the state of	N/A
M.6	Safeguards against short-circuits	ter antip Anti Mar. M	Р
M.6.1	External and internal faults	at at 1st 5	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.	WP P
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	t lifet allfest writest was	N/A
A.	Calculated hydrogen generation rate:	711 10 1	N/A
M.7.2	Test method and compliance	LIFE OLIFE MILE MILE	N/A
. et .	Minimum air flow rate, Q (m³/h)	an an a	N/A
M.7.3	Ventilation tests	LIER MITE WALL WALL	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1	LE WILL MALL MALL WALL WALL WALL	N/A
- TEK	Hydrogen gas concentration (%)	A A A A	N/A
M.7.3.3	Ventilation test – alternative 2	white mit must must make	N/A
LITER S	Obtained hydrogen generation rate:	at let let let	N/A
M.7.3.4	Ventilation test – alternative 3	ner mr mr m	N/A
IFE OLIFE	Hydrogen gas concentration (%)	et let let let	N/A
M.7.4	Marking:	The are and	N/A
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	1 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
M.8.2	Test method	the water water	N/A	
M.8.2.1	General	LIER ALTER OLITER OF	N/A	
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	N III I	.t c-	
M.8.2.3	Correction factors:	alter mitte unite unit	1/2,3 -1	
M.8.2.4	Calculation of distance d (mm):		- KEN	
M.9	Preventing electrolyte spillage	LIE WALLE WALL WALL	N/A	
M.9.1	Protection from electrolyte spillage	L at at let	N/A	
M.9.2	Tray for preventing electrolyte spillage	MULL MAY MAY A	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	WILLER MILIER MULTER MI	N/A	
TEX I	Instructional safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
N	ELECTROCHEMICAL POTENTIALS	WILL MALL MALL MALL	N/A	
JE STER	Material(s) used	at left telt treet	JEK -V	
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A	
CLIER.	Value of X (mm)	LEK TEK TEK	LITE METER	
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS W W	N/A	
P.1	General	ALTER MI	N/A	
P.2	Safeguards against entry or consequences of	entry of a foreign object	N/A	
P.2.1	General	THE LIFE WITH MITE	N/A	
P.2.2	Safeguards against entry of a foreign object	The same of	N/A	
Mill	Location and Dimensions (mm)	ALTER WITE WALLE	ance ame	
P.2.3	Safeguards against the consequences of entry of a foreign object	THE STEEL STEEL OF	N/A	
P.2.3.1	Safeguard requirements	me me	N/A	
LIL WAL	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	NIFE WALTER WALTER WALT	N/A	
ek walie	Transportable equipment with metalized plastic parts	iek unitek unitek unitek	N/A	
P.2.3.2	Consequence of entry test:	L at at let	N/A	
P.3	Safeguards against spillage of internal liquids	White Muri Aut A	N/A	
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	mer, mer, mer me	N/A	
P.3.3	Spillage safeguards	LET LET LET LIFE	N/A	
P.3.4	Compliance	in mer mer m	N/A	
P.4	Metallized coatings and adhesives securing pa	rts at get green	N/A	
P.4.1	General	No such construction.	N/A	
P.4.2	Tests	TEX TEX LIES	N/A	



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- in	EN IEC 62368-	Tip with white	11. 14.
Clause	Requirement – Test	Result – Remark	Verdict
- Mr.	C1:4::	Entry Mary Mrr. M.	4/1
- CEL	Conditioning, T _C (°C):		t 18th
11/2 21	Duration (weeks)		70,-
Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	Р
Q.1	Limited power sources	write mer mer mer	Р
Q.1.1	Requirements	at the set set	JEF P
-40	a) Inherently limited output	in with my my my	Р
LIFE	b) Impedance limited output	t at all all s	N/A
20, .	c) Regulating network limited output	mer mer mer	N/A
. CLIEBE . II	d) Overcurrent protective device limited output	LEK TEK TEK SITE	N/A
	e) IC current limiter complying with G.9	mer mer me m	N/A
Q.1.2	Test method and compliance	(See appended table Q.1)	NITE P. N
the Cart	Current rating of overcurrent protective device (A)	the state of	N/A
Q.2	Test for external circuits – paired conductor cable	antite more must m	N/A
	Maximum output current (A)	CITE WITE WALL WALL	N/A
et.	Current limiting method	The state of the s	<u> </u>
R	LIMITED SHORT CIRCUIT TEST	Mult mui	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	The west was a	N/A
LIFE	Overcurrent protective device for test:	t let let itek i	The Table
R.3	Test method	The sur sur sur	N/A
NIET O	Cord/cable used for test	EK TEK TEK SITE	1 TU
R.4	Compliance	Min Min Mar And	N/A
S ^T	TESTS FOR RESISTANCE TO HEAT AND FIRE	THE THE LIEF SLIPE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
47/	Samples, material	in any any any	
OLITER	Wall thickness (mm):	- tet tet itet il	
2, ,	Conditioning (°C)	The Me Me all	_
NETER VIII	Test flame according to IEC 60695-11-5 with conditions as set out	MATER WALLER WALLER	N/A
TER ST	- Material not consumed completely	at the tite the	N/A
211	- Material extinguishes within 30s	the many many	N/A
, LIEK	- No burning of layer or wrapping tissue	at at let the	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
164	Samples, material	A 10 10 11	



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
ale.	Well thickness (mm)	the river mark only w	70
NICH .	Wall thickness (mm)	et tet itet i	et ret
211 - 21	Conditioning (°C)	10, 0, 0	70.—
S.3	Flammability test for the bottom of a fire enclos	sure	N/A
S.3.1	Mounting of samples	ur, aur au au	N/A
S.3.2	Test method and compliance	the tell tell tells	N/A
	Mounting of samples	y mer mer m	
- WELLE.	Wall thickness (mm):	t get gift gift	Cler Water
S.4	Flammability classification of materials	Mr. Mr. M. M.	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	while while while while	N/A
	Samples, material:	LIER WILLEY WHILE	1 mg - m
y	Wall thickness (mm)	at at at	18th - 55
m	Conditioning (°C)	ET WILL MULT MULT A	12 - 712
T JE	MECHANICAL STRENGTH TESTS	at at all a	Part Part
T.1	General	WILL MULL MULL MAN	Р
T.2	Steady force test, 10 N:	(See appended table T.2)	N/A
Т.3	Steady force test, 30 N:	a inc. in	N/A
T.4	Steady force test, 100 N:	(See appended table T.4)	JITE PAN
T.5	Steady force test, 250 N:	(See appended table T.5)	N/A
T.6	Enclosure impact test	(See appended table T.6)	N/A
	Fall test	Mr. Mr. M.	N/A
الاي مياران	Swing test	ITEL STEEL WILL MALL	N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	P vil
T.9	Glass Impact Test:	No such glass	√ N/A
T.10	Glass fragmentation test	The West Marin Marin A	N/A
LIEK	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	mure min me an	N/A
nlie" w	Torque value (Nm):	No such antennas provided within the equipment.	N/A
UEK WALT	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General		N/A
MUT	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A



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01	EN IEC 62368-		1,7
Clause	Requirement – Test	Result – Remark	Verdict
U.3	Protective screen	the same and an	N/A
VI J	DETERMINATION OF ACCESSIBLE PARTS	LIEF NIET MITTER WHI	N/A
V.1	Accessible parts of equipment	THE THE STATE OF	N/A
V.1.1	General	NIET MITE WALL WALL	N/A
V.1.2	Surfaces and openings tested with jointed test probes	tel stilet attet antiet a	N/A
V.1.3	Openings tested with straight unjointed test probes	7/1 7/1	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	th alter white white whi	N/A
V.1.5	Slot openings tested with wedge probe	20 x x x x	N/A
V.1.6	Terminals tested with rigid test wire	CLIEB WILL WALL MALL	N/A
V.2	Accessible part criterion	The state of the	N/A
X WATER	ALTERNATIVE METHOD FOR DETERMINING CI INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
12.	Clearance:	my my m	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	LEE SILITE SINITE	N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion	LIFE ALTE MIN WALTER	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	the state with the	N/A
Y.3.2	Test apparatus	m m m	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	TEX STEEL STEEL WILL	N/A
Y.3.4	Test procedure	Mr. Mr. Mr.	N/A
Y.3.5	Compliance	LIER SLIER WILLER WHILE	N/A
Y.4	Gaskets	The state of the s	N/A
Y.4.1	General	ist outstandist with w	N/A
Y.4.2	Gasket tests	7n 1- 2+ 2+	N/A
Y.4.3	Tensile strength and elongation tests	TO THE MALTER MALLE WALLE	N/A
TEX.	Alternative test methods	The state of	N/A
Y.4.4	Compression test	WILL MULL MULL MULL	N/A
Y.4.5	Oil resistance	the state of the	N/A
Y.4.6	Securing means	LIE WILL WELL WALL	N/A
Y.5	Protection of equipment within an outdoor enclo	osure	N/A
Y.5.1	General	MULL AND AND AND	N/A
Y.5.2	Protection from moisture	at at at a	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
alle	AN AN AN ANALAS AND ANALAS ANALAS AND ANALAS ANALAS AND ANALAS ANA	THE LIFE WITH JAN	The The
	Relevant tests of IEC 60529 or Y.5.3:	711, 12,	N/A
Y.5.3	Water spray test	ALTER WITE WALTER	N/A
Y.5.4	Protection from plants and vermin	7, 7	N/A
Y.5.5	Protection from excessive dust	CLIEB WITE WALL W	N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment	THE WILL MULL AND	N/A
Y.5.5.3	IP6X equipment	L . L . L . L	N/A
Y.6	Mechanical strength of enclosures	White whi whi	N/A
Y.6.1	General	at at let	N/A
Y.6.2	Impact test:	White mur aut	N/A





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

ATTACHMENT TO TEST REPORT IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU_GD_IEC62368_1E

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

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

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عاد ا	CENELEC COMMON MODIFICATIONS (EN)	The my my	Р
WINLIE V	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".		n P. ON THE
EK WALTE	Add the following annexes: Annex ZA (normative)Normative references to intern corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	THE WRITE WALL WHILE WILE	P WALL
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A WAI WAITE
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. $E = \int_{0}^{T} p(t)^{2} dt$	IET WHITEK WHITEK WHITEK WHITEK	N/A



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all	All the second	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Trequirement – rest	Tresuit - Iremark	Verdict
2 2 40 4	accord concerns found OFI	The the ship are an	N1/0
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, E_0 , typically the 1 kHz threshold of hearing in humans.	MALTER MALTER WALTER MALE	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	etter water water water	No. 1
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	et united united united w	ni wa se mie
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	the tex tex res	t NLTEK
3.3.19.5	digital signal level relative to full scale, dBFS	MILL ME ME ME ME	N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	TEK WHITEK WHITEK WHITEK	on the on
WALTER W	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.	WILLER WILLER WILLER WILL	ex vanifex
2	Modification to Clause 10		N/A
10.6	.6 Safeguards against acoustic energy sources		N/A
'm'	Replace 10.6 of IEC 62368-1 with the following:		11, 11,
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	While	WITEK W
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is 	White while while while while while while	TE WINTER
	intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	TEK WALTER WALTER WALTER	NV ILE AN
	continuous use (for example, on a street, in a	TEK WALTER WALTER WALTER	un IE whit



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-20,	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- ch-	NOTE 1 Protection against acoustic energy sources from	the walt will all	me m
	telecom applications is referenced to ITU-T P.360.	1 1 1	LET JEY
	NOTE 2 It is the intention of the Committee to allow the	CLIEB WALLE WALLE	ant, and
	alternative methods for now, but to only use the dose	24 25	it lit
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	TEL TEL STEEL OF	Liter WALL ON
	possible.	her when my my	
	Listening devices sold separately shall comply	at at let o	Et JEE WI
	with the requirements of 10.6.6.	MULL AND AND	20,
	These requirements are valid for music or video	1 1 1	- LE - LE
	mode only. The requirements do not apply to:	SLIFE MITE WALL	mr. mr
	– professional equipment;	20, 20, 4	* #
	is the the the the	TEX TEX LITER	WITE WILL
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal	Mr. Mr. Mr. 1	
	electronics stores are considered not to be professional	at at at	TEX TEX
	equipment.	LIE WALL WALL WA	211, 211
	– hearing aid equipment and other devices for		* 2 * 3
	assistive listening;	ex liter with with	MUE MUE
	the following type of analogue personal music	211. 20. 20.	4 24
	players: • long distance radio receiver (for example, a	TEX TEX LIFE	OLITER MALTE
	multiband radio receiver or world band radio	MUT. MUT. MILE	70, 2.
	receiver, an AM radio receiver), and	The second section is	TEX TEX
	cassette player/recorder;	The state of	Vr. 1/Vr. 1
	NOTE 4 This exemption has been allowed because this		et let
	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	the the other will	in an
	extended to other technologies.	24 20 20	
	– a player while connected to an external amplifier	- LEH JEH JE	CLIE WILL
	that does not allow the user to walk around while	were mer me	20, 20
	in use.	the state of	TEX JEX
	For equipment that is clearly designed or intended	WITE WILL MILL	ner me
	primarily for use by children, the limits of the		et et
	relevant toy standards may apply.	TEX STEX OUTER OF	ite Mers M
	THE THE STATE WALL WALL W	1. M. M. M.	1
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods	at the the the	ET INTER WILL
	and measurement distances apply.	Mur Mr Mr.	20, 20,
10.6.1.2	Non-ionizing radiation from radio frequencies	it let let	N/A
	in the range 0 to 300 GHz	WILL MILL MULL	20, 20,
	The amount of non-ionizing radiation is regulated	a at at	TEX TEX
	by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of	ALTER MITE MALLE	We for a
	exposure of the general public to electromagnetic	24. 24.	A 24
	fields (0 Hz to 300 GHz).	THE LIER LITER OF	in in the
	For intentional radiators, ICNIRP guidelines should	Mr. Mr. Mr. M.	7
	be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and	t it it is	t with out
	Electromagnetic Fields (up to 300 GHz). For hand-	WALL WALL WALL	211.
	held and body mounted devices, attention is	The state of	LEK TEK
	drawn to EN 50360 and EN 50566.	THE SET LIFE	Carry Mary



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Clause	Requirement – Test	Result – Remark	Verdict

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



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~~	EN IEC 62368-	or any and an	72, 2
Clause	Requirement – Test	Result – Remark	Verdict
The .	With the state of	er with with other	me m
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	et tet get	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	AND TEX WILLEY W	ALTER WALTER
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that	THE SET STEET	N/A
10.6.3	exceeds RS2 limits. Classification of devices (new)	Wer The Man A	N/A
10.6.3.1	General General	N. C. C. C. C. C.	N/A
SEK WALTE K	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	
10.6.3.2	RS1 limits (new)	20, 20,	N/A
until virtel vir	RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	JUNITER WHITER WHITER WHITER JUNITER WHITER WHITER WHITER JUNITER WHITER JUNITER WHITER WHITER JUNITER	et white on the same of the sa
10.6.3.3	RS2 limits (new)	er with write write	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player	TIFEK WIFEK WITEK W	NITEY WALTEY



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
WIND ON THE WAR THE WA	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	ANTIEK WHITEK WH	ALIER WHITER WHITER WHITER W
10.6.4	Requirements for maximum sound exposure	in mur mer me	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with	Not such equipment	N/A
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable. Protection of persons	at the si	N/A
EK WALTE	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	the white white	L WAY
	NOTE 1 Volume control is not considered a safeguard.	WALTER WALTER WALTE	Mur. Mur.
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	untitek whitek whitek whitek	LITER WHITER ON
	The elements of the instructional safeguard shall be as follows:	ONLIER WHITEK WHITEK	UNLIER WALTER
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	MULTER MULTER MULTER MULTER	TEX MITEX ON
	wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	ANTIFEK MUTEK MUTEK	MULL MULTE
			200



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
WALTER WALTER	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. The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time. NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	JUNITER WHITER W	INLIER WALTER JUNETER JU	
NUTTE A	A skilled person shall not be unintentionally exposed to RS3.	WILLER WHITEK WHITEK	Write Mury	
10.6.5	Requirements for dose-based systems		N/A	
10.6.5.1	General requirements Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the	Not such equipment	N/A N/A N/A N/A N/A N/A N/A N/A	
NITEK WIN FEK WINTE L EK	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.	TEK WHITEK WHITEK WHITE	EK MULEK A	
10.6.5.2	Dose-based warning and requirements	WITE WALTE WALTE	N/A	
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an	street outer sources	NITEK WAITEK	



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- 0	EN IEC 62368-1	The The Man	12, 2
Clause	Requirement – Test	Result – Remark	Verdict
Aller.	W W The state of	The water water	The All
	acknowledgement. In case the user does not	70	14 Et
	acknowledge, the output level shall automatically	TEX ITER LITER	Willy Willy
	decrease to compliance with class RS1.	me, me me a	2
	The warning shall at least clearly indicate that		et let
	listening above 100 % <i>CSD</i> leads to the risk of	THE STIP OF THE STATE STATE	10 m
	hearing damage or loss.	in the true to	
0.6.5.3	Exposure-based requirements	at let let je	N/A
0.0.0.0	With only dose-based requirements, cause and	in in whi whi	21/2
	effect could be far separated in time, defying the	, , , , , , , , , , , , , , , , , , ,	12- 12
	purpose of educating users about safe listening	t the the the	WILL WILL
	practice. In addition to dose-based requirements,	with the the	2, 3,
	a PMP shall therefore also put a limit to the short-	1 1 1	THE THE
	term sound level a user can listen at.	LIER SLIER OLIVE SO	E. Mr.
	a st set tell tell mit unit.	Mr. 24. 20. 20.	
	The exposure-based limiter (EL) shall	it it it is	Et JEE
	automatically reduce the sound level not to exceed	The Will WALL WALL	211, 211
	100 dB(A) or 150 mV integrated over the past 180	20, 2	
	s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level	A LET THE THE	The sale
	reduction to reaching target output) shall be 10 s	with whit with	20, 20,
	or faster.	1	_E* _E*
	of factors	TER LIFE OLIVE	Wry Wry
	Test of EL functionality is conducted according to	21/2 21/2 21/2 A	
	EN 50332-3, using the limits from this clause. For	The second second	THE SHAPE
	equipment provided as a package (player with its	WE WE WE	100
	listening device), the level integrated over 180 s		4 x
	shall be 100 dB or lower. For equipment provided	The state of the	11 M
	with a standardized connector, the unweighted	The Wall Mar All	21, 25.
	level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more	1 1	- Let - K
	than -10 dBFS for a digital interface.	THE STIER WITH	anti with
	and to del o for a digital interface.	The Mr. In	
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX LIEX NITER O	ALTER MALTER
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	in the the the	
	listening device, and with the volume and sound	1 1 1 1	- 1 th 3
	settings in the listening device (for example, built-	the outle write while	The The
	in volume level control, additional sound features	711 21	4 1
	like equalization, etc.) set to the combination of	LIK TEK JEK	alite alite
	positions that maximize the measured acoustic	WILL WILL MALL	11, 21,
	output, the input voltage of the listening device when playing the fixed "programme simulation	3	at let
	noise" as described in EN 50332-1 shall be ≥ 75	TEX TEX TEX N	it with
	mV.	We all all all	
	The rest with the same	4 1 1 1	A 18
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TER WALTER WALLE WALL	2/12 2/11
0.6.6.2	Corded listening devices with digital input	e of the	N/A
	With any playing device playing the fixed	INLIE MALL MALL	Mr. Mr.
	"programme simulation noise" described in EN	21, 22, 2	at at
	50332-1, and with the volume and sound settings	Let let let	LIE WITE
	in the listening device (for example, built-in volume	J. J. W. J.	L 10,



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	EN IEC 62368-1	the way were we	
Clause	Requirement – Test	Result – Remark	Verdict
alex.	an an a text of	LITE MITTER WALL	The The
whitek whi	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	united united united	MILITER MILITER
10.6.6.3	Cordless listening devices	100	N/A
Whitek wh	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	LE WHITE WHI	WALLER WA
10.6.6.4	Measurement method	WILL WILL MALL	N/A
NITES AND	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Mark	LIET NIET N
3	Modification to the whole document		N/A



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	1011 - 100 - 100 - 100				
" nu	711. 22.	EN IEC 62368-1	TER WILL MULL WA	r. Mr. Mr.	
Clause	Requirement – Test	The The The	Result – Remark	Verdict	2.0

	lis		The Market	20		TEL TE	to the following	N/A
	12	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1
	Print.	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	NALAY.
	,E.K .W	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	C. E.Y.
	ا ک	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	J- 3
	211	Table 13						2/1/2
	MITE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MITE
	LIEK	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	NITEK V
	et in	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	1 E. K. 11/2
	10.55	8.5.4.2.3	Note	10.2.1	Note 3 and 4 and 5	10.5.3	Note 2	t mili
	20,	10.6.1	Note 3	Table 39 F.3.3.6	Note 3	Y.4.1	Note	120,
	VELL	Y.4.5	Note	1 .5.5.0	Note 3	1.7.1	Note	MILLE
	IEK OL				/A* //			JEK J
1000	М	odification	to Clause 1					N/A
	No ele		ving note: e of certain substa ent is restricted w			MULTER WALT	ornite unit	N//



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EN IEC 62368-1					
Clause	Requirement – Test	The Mary My May	Result – Remark	Verdict	

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
antiek whi tiek whitek whitek	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as	mains	WALTER WALTER
6	providing protection in accordance with the rating of the wall socket outlet.	te alie alies anties and	NI/A
	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
O.5.1. UNLIER WALES WALES WALES WALES WALES WALES	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the	STEET WHITE	IN/A IN/A		
	apparatus. Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h	white	unitek whitek		
	taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	The multiple while while	unit wat		
•	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.	unifek unifek unifek	N/A		
10	Modification to Bibliography		N/A		



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EN IEC 62368-1					in the
Clause	Requirement – Test	Mr. M. M.	Result – Remark	at a	Verdict

- College	The t	411
. Et	Add the following notes for the standards indicated:	N/A
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
11	ADDITION OF ANNEXES	N/A
ZB 👉	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15 JUNETER JUNETER WALTER JUNETER WALTER JUNETER WALTER WALTE	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	AN N/A
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A

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1.01010110011	10:: W 11 2 1B00 120027 1	1 age 01 61 61			~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
21/2		EN IEC 62368-1			11/1
Clause	Requirement – Test	ite and any	Result – Remark	et s	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	MALTE
	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.	sires while whiles whiles	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	ed unite white whit w	
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult me	K TEK
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Miter White White White	JUNE V
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	11 Et . 211
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	attex with mit with	EX MULTEX
	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	MILITER WHITE	- Writek o
	completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	MULLER MULLER MULLER AND	ing mark
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 	UNLIEK WALTER WALTER WALTER	WEITER ON
	and white white white white white	A LEK LIER LIFER	NITEK MILI
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULTER WILLIAM	TEX MALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NITER WALLER WALLER	LANGER O
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	on it on
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	STEET STEET STEET SOLL	EK WILLEK



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
whitek whi	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; • the additional testing shall be performed on all the test specimens as described in EN 60384-14;	SUPLIER WHITER WHITER WAS	nifek whitek		
nurit.	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITE WHITE	MUC MUT		
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line	MILIER WHITER WHITER	and n/A		
5.5.6	voltage (230 V). Finland, Norway and Sweden To the end of the subclause the following is added:	No such resistors.	N/A		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	MULTER MULTER MULTER	mitek whitek		
5.6.1 JAN	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be	No such equipment.	N/A		
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: — the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	Liet whitet whitet white	N/A		
5.6.4.2.1	France After the indent for pluggable equipment type A, the following is added: — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	Whitek whitek whitek wh	N/A		
5.6.5.1	To the second paragraph the following is added: 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 mm² to 1,5 mm² in cross-sectional area.	SE WHITE WHITE WAITER	N/A		



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

5.6.8	Norway	20, 20,	N/A
unties a	To the end of the subclause the following is added:	Whitek whitek whitek w	MILIER
LIFEK WAS	Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	STEK WHITEK WHITEK WHI	EK WITEK W
5.7.6	Denmark	2/1, 21, 2,	N/A
White W	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Whitek whitek whitek	unite unite
5.7.6.2	Denmark	TEX SITES ONLY	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	AND THE MUTTER MUTTER	WALLEY WALL
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	THE WALLEY WALLEY WALLEY	TEX DIFFE
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	unite white white whi	ex on strex
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	the street whitest	White white
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	Wiles Muries Multer And	TEK WITEK
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator,	TEK WALTEK WALTEK WALTEK	MULLER ON
	see EN 60728-11)"		



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
MUTER AU	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will	WALLER WHITE WALLER WHITE	WALTER V	
	also be accepted in Norway): "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	Et whitet whilet whitet w	whitek	
in on lifet vinitel et vinitelt,	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	ANTIC WILL WILLER WHITEK	un liest vun liest liest vun liest state vun liest	
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd 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 Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A	
G.4.2	Denmark To the end of the subclause the following is added: 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 socketoutlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	Not directly connected to the mains	N/A N/A NETERON NETERON NATION NA	



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200	EN IEC 62368-1	is the the all a	, J.
Clause	Requirement – Test	Result – Remark	Verdict
apro	THE THE THE THE	the city with only who	- an-
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	a at at A	K TEK
		WILL MULTE MULL MULL	ale.
	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	LIER MITER MITER	WALTEK W
	plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	EX MUTER MUTER MUTER	ILEK WAL
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	Whitek whitek whitek whitek	WALTER .
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX MUTER MUTER MUTER	in stex on
	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	TEX STEX WITER WITER WITE	H MALTER
	Justification:	Wer Mr. Mr. Mr.	
	Heavy Current Regulations, Section 6c	TEX STEX	LIFE
0.40			NI/A
G.4.2	United Kingdom To the end of the subclause the following is added:	Not directly connected to the mains	N/A
MINITER OF	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.	Whitek whitek whitek whitek	SEE WALTER WATER
G.7.1	United Kingdom	x x x x xx	N/A
	To the first paragraph the following is added:	the mutile mutile mutile an	7/1,
	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.	MINITER WHITER WHITER WHITER	WALTER WA
WALTER	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	MULTER WALTER WALTER	TEN WALTE



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Ġ	CIE VINCO	Mar Air Air W	EN IEC 62368-1	TEL MITER WHITE WHITE WE	711
	Clause	Requirement – Test	Mr. M. M.	Result – Remark	Verdict

G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State	Whitek wh	N/A
	which is equivalent to the relevant Irish Standard	70 T	
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	Whitek whitek whitek whitek	N/A
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)	is me me m	N/A
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	No CRT within the equipment.	N/A WALTER WALTE
Maria M	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I	unifer while while while	unt.



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71/2	Mr. And	EN IEC 62368-1	10 M
Clause	Requirement – Test	Result – Remark	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords	- L	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	- [5]	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



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

5.2	TABLE: Classificati	on of electrical er	nergy source	es		* **	P
Supply Voltage	Location (e.g.	Test conditions		Parame	eters		ES Class
designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class	
5.0Vdc	The EUT is	Normal	<60Vdc		SS	DC	ES1
. Mr.	designed to be supplied by Micro	Abnormal	10 11 11 11 11 11 11 11 11 11 11 11 11 1	TE MILTE	100 - 11	Ver The	(declare
MULTER	USB or type-C	Single fault – SC/OC	7 L	et ettek	CIEK-	EK -ITEK	
9.0Vdc		Normal	<60Vdc	4, -	SS	DC	ES1
Mich Mir	designed to be supplied by Micro	Abnormal	56th 176th	INLIE MAL	10 To 12 To	aller a	(declare)
LIEK WALTER	USB or type-C port	Single fault – SC/OC	- TEX	STEP STEP	MLTEX.	JALIEK WAL	
3.7Vdc	3.7Vdc The EUT is	Normal	<60Vdc	1. Tu	SS	DC	ES1 (declare
WILL	designed to be supplied by	Abnormal	()	SER STEEL	nite or	The Arthur	
MALTEX WA	Internal Li-ion battery	Single fault – SC/OC	"EK "E	- 761+	JEN -	ik Tilik	

Supplementary information:

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

Normal –Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8	TABLE: Working	voltage measu	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
7. A	at at	JEK -JEK	Will AVIII	mr -m	411 111 - 14
- WILLE	Mrr. Mrr. M	1/1	et -et	TEK -TEK	REFER WALLE WALL WALL
Supplemen	ntary information:				
ane al	V. 21 211	477	t at a	et det	LIE RLIE WILL WALL

5.4.1.10.2	TABLE: Vicat soft	ening temperature of thermop	olastics	ER WITE	N/A
Method			: ISO 306 / B50		_
Object/ Par	t No./Material	Manufacturer/trademark	Thickness (mm)	T soften	ing (°C)
æ jet	TEX STEX N	Et mi mi i	12 22 T	A 7	et set
Supplemen	tary information:				
J.	TEX JEX JE	" " THE MUT MU MI	20.	at at	A COM



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100	- 11 21 21 21 21 1 1 1 1 1 1 1 1 1 1 1 1	EN IEO 00000 4	A 18 38	all the same
- 27		EN IEC 62368-1	The sale of	11. 2
Clause	Requirement – Test		Result – Remark	Verdict

5.4.1.10.3	.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed imp	pression diame	eter (mm)	:	≤ 2 m	m nute muit	MILL	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression eter (mm)
* **	18th 58	E NITER MITER WALTER	71/2 TO		7	÷	ä 1
Supplemen	tary informatio	n:					
. et	TEX JEX	LIFE MITE WITH W	b. 24.	20			- EX

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
Lite white white white will	21,			20 - 20	- Tiek	KLEE .	ناملاء سياناس	1. 21vr

Supplementary information:

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

5.4.4.2	TABLE: Minimum	TABLE: Minimum distance through insulation							
Distance th (DTI) at/of	nrough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)				
Jet Jet	3'4'/	2 - 75		T- 11	. Let Let				
Supplemen	ntary information:								
*See also	sub-clause 5.4.4.9	it Muli Mr. M.	t t	it let	TEN STEE				

5.4.4.9	TABLE:	TABLE: Solid insulation at frequencies >30 kHz								
Insulation r	naterial		E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)		
The Will.	MUT.	Mer	-in-	🖈	164 - 16	- JEE .	CER WITE	There we		
Supplemer	tary inforn	nation:								
MALL	21/2 P	16.	in a	1	CENT TEXT	LITER NI	E. Wille	Wis. Mrr.		

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	With white white year		at at all	F LIEF SLIE
- 24	a st st state of	Et WITE WITE W	The sales sales	2/1, - 2/1
Basic/suppl	lementary:		et let set	ALTER OLIER
- 20,	at the title wife	- white white whi	- m. m.	2, 7
Reinforced:	LIE WILL MULL MULL AND	A A A	t Tex Tex "	LIFET MITE W

EN IEC 62368-1									
Clause	Requirement – Test	211.	Result – Remark	Ve	rdict				
il.	M M	A CONTRACTOR OF THE PARTY OF TH	TER STE MIT WA	" Were	apr.				
- 6	THE LIES STEEL WITE MILE	-21/2 2	- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	4 J	ret.				
Routine To	ests:								
-# .	LEK LITER NITER WITER WALTER	712 21	24 - X	J. J. J.	er d				
Suppleme	ntary information:								
et e	to the life out out one	- 70	20. 1	at at	46				

5.5.2.2	5.5.2.2 TABLE: Stored discharge on capacitors							
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class		
n. 25		Jt Jt	Normal	White - Wir	an - an	20, - 2,		
TEK WALLE	MILITE	MULL MA	Single fault: SC/ OC	LIFEK WALTER	MULTER TANKTER	White whi		

X-capacitors installed for testing are:

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

5.6.6 TABLE: Resistance of protective conductors and terminations N/A									
Location Test current Duration Voltage drop (A) (min) (V)									
-write whi with which		Et JEL JEL	NITER - NITER	Notice Police					
Supplementary information:									
we we will all	2 1	t let let	THE STE OF	ill wall wi					

5.7.4	TABL	E: Unearthed acces	ssible parts			N/A		
Location		Operating and	Supply	ſ		ES class		
		fault conditions Vo	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
Whitek Whitek		Normal	100 10		4 7t /	y 10		
		Abnormal: overload	white and	ER WHILE WHI	muri- mur	777.	700 <u>. </u>	
		Single fault: SC/OC		White White	WHITE - WHITE	MUT.	10 M	
Suppleme	ntary inf	ormation:				1		
SC= short	circuit:	OC= open circuit	16 July 18	all the	12 24 2	1, 2,		

TABLE: Earthed accessible conductive part N/A Supply voltage (V)..... Phase(s): [] Single Phase; [] Three Phase: [] Delta [] Wye



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

Power Distribution System:	[]TN	[][T]	[]]T	20, 20,		L 1		
Location	Fault Co 60990 c			Touch curren (mA)	t	Com	ment	
THE DITE MITE WALL WALL	2100	an -		A - A	NEX.	JEt.	- (LIE	ئىم. "
Supplementary Information:								
the tell of the wife only	Vr. 91	b. 1	,	, JL	24	J.E.F	A EST	50

5.8 TABLE: Backfeed safeguard in battery backed up supplies							N/A	
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
MILLY WILL	Who.	11/2 1	L 20	. d	TEK -TEK	WITE - WITE	Mr. In	
Supplementary information:								
it will our our our or the feet the life with while our								

6.2.2 TA	BLE: Power sourc	e circuit classifi	ications	LEK S	Et LIER ,	P.
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Micro USB or Type-C Input (5VDC 2A)		5.0		10	3S	PS1 (declare)
Micro USB or Type-C Input (9VDC 2A)	1 1/4 CE+	9.0	nifek mitte	18	5S	PS2 (declare)
USB-A Output (5.0VDC 2.4A)	Normal / Abnormal	5.09	3.14	15.98	58	PS2
Type-C Output (12.0VDC 1.5A)	Normal / Abnormal	11.57	1.88	21.8	58	PS2
Battery Normal / Abnormal		1.178	27.6	32.47	58	PS2
Supplementary in	nformation:					

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	20.	L A At	N/A			
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No			
ation while	in in	20 - St V	F JEF- JIEF	WILL THE MY	- mer m			
Supplementary information:								
T. ave.	2/12 2/11 /		JEK JIEK O	LIE WALL WALL	Mur. Mur.			

6.2.3.2	TABLE: Determination of resistive PIS								
Location Operating and		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
All internal	circuit	of the little wife	anti unti un	Yes					



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Ġ	CIE VINCO	Mar Air Air W	EN IEC 62368-1	TEL MITER WHITE WHITE WE	711
	Clause	Requirement – Test	Mr. M. M.	Result – Remark	Verdict

(declared)

Supplementary information:

Supplementary Information:

All circuits are considered as resistive PIS;

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

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

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

All conductors and devices are considered as PIS.

8.5.5 TABLE: High	pressure lamp	, t	et let is	N/A				
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No				
- at let let	STEE SOUTH	of The Marie Marie	70, -	A - A				
Supplementary information:								
		7 16 W		at at				

9.6 TABL	E: Tempe	rature mea	surem	ent	s for wirele	ess power	transmitte	ers	P
Supply voltage (V)			:	9V	dc			MILITER	_
Max. transmit powe	er of transr	nitter (W)	:	15	W	11. 24.	70.	7.6	_
		eiver and contact			eiver and contact		iver and at of 2 mm		ceiver and at ce of 5 mm
Foreign objects	Object (°C)	Ambient (°C)	Obje (°C		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel disc	25.0	25.0	53.	1	25.0	44.9	25.0	25.9	25.0
Aluminium ring	25.0	25.0	52.	15	25.0	43.2	25.0	25.8	25.0
Aluminium foil	25.0	25.0	52.3	3	25.0	42.9	25.0	25.9	25.0
Supplementary info	rmation:								

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurem	ents	EK WITEK	NATIEK WAL	IEIK WALT	P INC
Supply volta	age (V):	9Vdc (1)	3.7Vdc (2)	76th (176)	10-51 E	_
Ambient ter	nperature during test T _{amb} (°C):	See below	See below	70,		_
Maximum n	neasured temperature <i>T</i> of part/at:		Allowed T _{max} (°C)			
L1 of	Life White Mile My My Miles	68.8	82.3	10th	JEK	130



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			, t	EN IEC 62	368-1			
Clause	Requirement -	- Test	recommendation	711.	Res	ult – Remark		Verdict
aller 1	21, 21,		غ. ر		SE.	JE WIT	are all	21/2
PCB near U	3 t 3 t		ELLANTIE	69.1	85.9			130
Deatty body	2/12 2/1	37.9	50.5	EF INLIE	1472 - 147	Ref.		
input wire				36.7	58.6		ال بار	80
Enclosure inside near Wireless				47.7	57.8		LT UNITE	Ref.
metal Enclo	sure	MITE	unit wh	34.1	44.2		* .	60
Enclosure o	utside near LE)	A 16	39.2	38.3	WE WALL	'n, -	60
Ambient	LIFE WITE.	Willey W	r. Mr.	25.0	25.0		20-	JEK JIEK
Temperatur winding:	e T of	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
anci uni	. The In	70.	`-,	, <u>() </u>	d - S	The same	ملات - مالا	an a

Supplementary information:

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

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

- (1) means condition 1: Charging condition with empty battery.
- (2) means condition 2: Discharging condition with fully charged battery.

B.2.5	of T	ABLE: In	put test					A AF AF PA
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	-4c)	1.87	2	u	LIEK-	iek-	IEK NULT	Micro Charging condition with empty battery.
9.0Vdc	n ^{ill} e	1.91	2	· _ · · · · · · · · · · · · · · · · · ·	 E* - LTE	- GLIE	r tek	Micro Charging condition with empty battery.
5.0Vdc	set .	1.97	2	410	ZEK ZEK	JEX.	LIEN	Type-C Charging condition with empty battery.
9.0Vdc	. us	1.99	2	white.	nu-	γ. 'm'	20 2	Type-C Charging condition with empty battery.

B.3, B.4	TABLE: Abnori	mal operatin	g and fau	ılt condit	ion te	sts	TER LIER WITER	mer P and
Ambient tem	perature T _{amb} (°	C)			st	23.9	L. 24, 24	_
Power source	e for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng :	٤	TEX OLIER MALTER ON	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observatio	n
Q1 pin 1-4	SC	9VDC	10mins	NACI <mark></mark> V		NITEK NITEK	Unit shut down immed damage, no hazards. Input current: 0A.	liately, No

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



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

Q3 pin 1-4	SC	9VDC	10mins	Mr 21	70,	Unit shut down immediately, No
Write Write	any an	an.	.22			damage, no hazards.
37	4	6 JOH	A Filth	The are	" are"	Input current: 0A.

Supplementary information:

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

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

AV 10							-	•	
to install the	battery in a re	everse	polarity	position?		- (6)	F 31	lo (<u> </u>
				C	harg	ing			
pecification	Voltage (V)					Current (A)			
	9.0			-atr		2.0			
				Battery	/ spe	cifica			
	Non-rechargeable batteries Rechargeable batteries								
	Discharging			(Char				Reverse
ırer/type	current (A)			Voltage	(V)	Curi	rent (A)	current (A)	charging current (A)
51AS	JF 761		£*	4.2		Vr.	5	10	40
ts of M.3.2 a	re applicable c	only wh	en abov	e appropri	ate d	lata is	s not ava	lable.	
tery tempera	ture (°C)				u: ^{::}		11/2 1	0-55	
Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)	_		Voltage (V)	Obse	ervation
SC	Charge mod	de 7	7hours	20	, ()	* - V	NL, NS, NE	, NF
SC	Discharge mo	ode 7	7hours	111 ⁶⁷ -111	(المري	11th	NL, NS, NE	, NF
	urer/type 51AS ts of M.3.2 a tery tempera Fault condition SC	Non-recharge Discharging current (A) STAS The sof M.3.2 are applicable of the standard discharge model of the standard discharge model.	Non-rechargeable by Discharging current (A) Uninto charger to the current of the charge and the current of the	Non-rechargeable batteries Discharging current (A) Discharging current (A) Discharging current (A) Discharging current (A) Charge mode Charge mode Charge mode Non-rechargeable batteries Unintentional charging current (A) Charging current (A) Test time Charge mode Tours	Non-rechargeable batteries Discharging current (A) Toltage (V) 9.0 Battery Non-rechargeable batteries Discharging current (A) Voltage Voltage Voltage Voltage Voltage Voltage Test tery temperature (°C)	Pecification Voltage (V) 9.0 Battery spe Non-rechargeable batteries Discharging current (A) Solution Discharging current (A) Charge voltage (V) Voltage (V) Voltage (V) 4.2 ts of M.3.2 are applicable only when above appropriate of the terry temperature (°C)	Battery specifical Non-rechargeable batteries Discharging current (A) The property of the pro	Pecification Voltage (V) 9.0 Battery specification Non-rechargeable batteries Discharging current (A) Charging current (A) Voltage (V) Current (A) Voltage (V) Current (A) Solution Fault Charge/ discharge mode Charging Voltage (V) Current (A) Current (A) Test Temp. Current Voltage (V) Current (A) Current (A) Charge mode Test Temp. Current Voltage (V) Current (A) Current (A) Charge mode Test Temp. Current Voltage (V) Current Voltage (V) Current (A) Charge mode Test Temp. Current (A) Current (A)	Pecification Voltage (V) 9.0 Battery specification Non-rechargeable batteries Discharging current (A) Charging current (A) Voltage (V) Voltage (V) Current (A) Discharging current (A) Voltage (V) Current (A) Test condition Charging Voltage (V) Current (A) Charging Current (A) Current (A) Charging Current (A) Current (A) Charging Current (A) Charging Current (A) Current (A) Current (A) Current (A) Charging Current (A) Current (A) Current (A) Current (A) Charging Current (A) Current (A)

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

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium	P C
Carrier Street	battery	N. W.

¹⁾ Supply by external DC source,



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			, t	EN IEC 62368-	1.16 Mile		
Clause	Require	ement – Test	Write Wir.	2/1, 24	Result – R	Verdict	
Mr.	211 2		1 1	15 5		all with all	- m
Maximum	specified	charging voltag	e (V)	W. W.	.: 4.2		<u>, </u>
Maximum	specified	charging currer	nt (A)		: 0	LITE WALL WALL	
Highest sp	ecified ch	arging tempera	ture (°C)		: 55	at all all	
Lowest sp	ecified cha	arging tempera	ture (°C)		: 0 mi	MUT, MUT.	⁽²⁾
Battery		Operating Measurement				Observ	ation
manufactu	rer/type	and fault condition	Charging	Charging	Temp.		
		Condition	voltage (V)	current (A)	(°C)		
Lowest spe	ecified cha	arging temperat	ure:	ALTER MIT	MALTE	ing and an	n,
LCS21101	1051AS	Normal	4.2	0.143	0	Stop charging.	LIEK
LCS21101	1051AS	Single fault – (Q1 pin 1- 4 SC)	4.2	0.106	whit o wh	Stop charging.	W. TEK

Supplementary information:

LCS211011051AS

LCS211011051AS

Highest specified charging temperature:

Normal

Single fault

- (Q3 pin 1-4 SC)

4.2

4.2

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

0

0

55

55

Stop charging.

Stop charging.

Q.1	TABLE: Circuits inte	ABLE: Circuits intended for interconnection with building wiring (LPS) N/A							
Output	Condition	U _{oc} (V)	Time (a)	$I_{sc}(A)$		S (VA)			
Output Circuit	Condition		Time (s)	Meas. Limit	Meas.	Limit			
	. Jr - Jr 3	EK TEK	inlin - unli	Tar	24 - 24	in.	\c		
JEE MILLE	Mury Aug Mury		A- B	764	UP NU	in Terran	The Sales		
Supplement	ary Information:		A 10	Tex	uret auf	sh Marie	- 3		

SC = short circuit, OC = open circuit

T.2, T.3, T.4, T.5	TABLE: Ste	eady force tes	st Cliffe			TEX WHITE WHITE WHITE WAR
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosure (T.4)	Metal and Plastics*	1.5	NLIFER AIN	100	TEX 5 TEX	Enclosure remained intact, no crack/ opening developed

Supplementary information:

*See table 4.1.2 enclosure materials. Test was performed for all sources of enclosure material.



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Land March	My My All	EN IEC 62368-1	TEX WITER WITER WI	Tipe Marie Angri
Clause	Requirement – Test	The Mary My May	Result – Remark	Verdict

T.6, T.9	TABLE: Impa	ct test						1	N/A
Location/Part Material Thickness (mm) Height (mm) Observation									
NITE WALL	MULL - MUL	20, 20	7, 7	TEX .19	Et JEE	. LIFE	MITE	WALT	W
Supplementa	ary information	:							
The section of	Wer Mer	211. 211.	, ,	et set	THE STATE OF	Clerk .	J.	NO.	are.

T.7 T.	ABLE: Drop	test		BE THE LIFE SLIFE MILE OF PER
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure	Metal and Plastics*	1.5	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementary	y information:			
*See table 4.1	.2 enclosure	materials. Test wa	s performed	for all sources of enclosure material.

T.8	ΓABLE: Stres	s relief test					P
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)		Observation	
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure ren cracking/oper enclosure join	ing develope	d in the
Supplementa	ry information:						
*See table 4	1.2 enclosure	materials Test wa	s performed t	for all source	es of enclosure	material	

X	TABLE: Alterna	tive method for determining	ve method for determining minimum clearances distances					
	nce distanced petween:	Peak of working voltage (V)	Required cl (mm)	Measure (mm				
St JIER	CLIEB WILLE W	VET AVET - AVI AV	A	of the To	EK STE			
Supplemen	tary information:							
- CIER	LIE WILL WA	i mr. m	L At At	TEX SE	JE			



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Ġ	CIE VINCO	Mar Air Air W	EN IEC 62368-1	TEL MITER WHITE WHITE WE	711
	Clause	Requirement – Test	Mr. M. M.	Result – Remark	Verdict

4.1.2	TABLE: Critical comp	TABLE: Critical components information							
Object / part No.	Manufacturer/ trademark	Type / model Technical data		Standard	Mark(s) of conformity ¹				
Plastic enclosure	LG CHEM LTD	AF364(&)	V-0, 60°C, Min. thickness 1.5mm	UL 94	UL E67171				
PCB	Various	Various	V-0, 130°C	UL 94, UL 796	UL				
Internal wire	Various	Various	Min. 30V, Min. 80°C, Min. 26AWG, VW-1	UL 758	UL.				
Li-ion Battery	Guangdong CVATOP New Energy Technology Co., Ltd.	LCS211011051 AS	3.7Vd.c., 10000mAh, 37Wh	IEC 62133- 2:2017+A1:202 1	IEC Report LCS211011 051AS				
Aramid Insulating Paper	X-FIPER NEW MATERIAL Co.,LTD	AD30	Min. 0.04mm. 210°C. VTM-0	UL 94	UL E320646				

Supplementary information:

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



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Photo Documentation

Reference No.: WTF24D06129527Y



Figure 1 Overall view



Figure 2 Overall view



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Figure 3 Overall view



Figure 4 Overall view



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Figure 5 Internal view

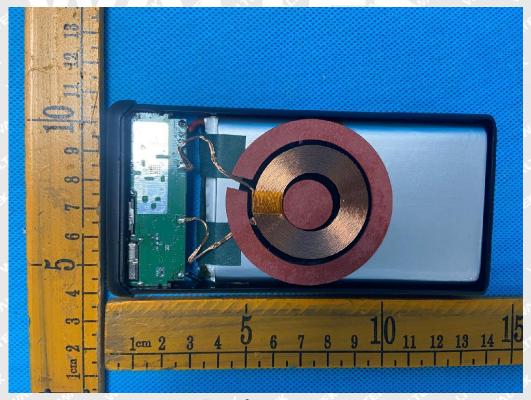


Figure 6 Internal view



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Photo Documentation

Reference No.: WTF24D06129527Y

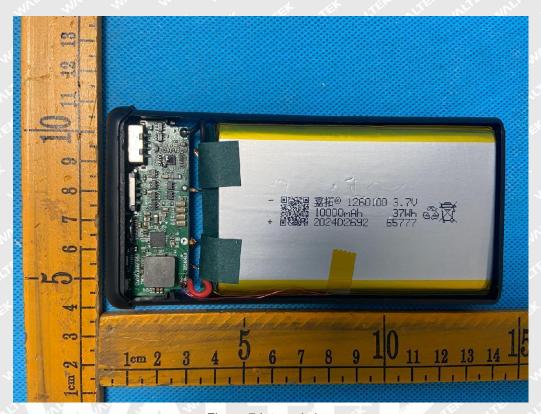


Figure 7 Internal view

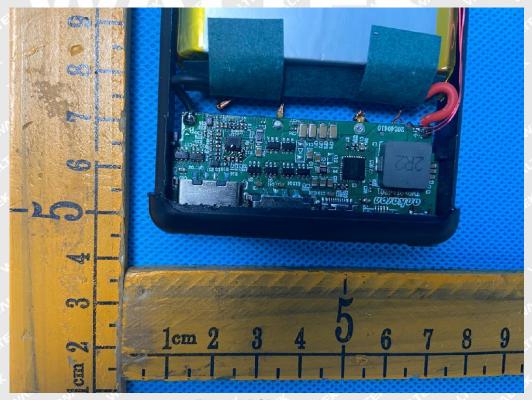


Figure 8 PCB trace view

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

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