



TEST REPORT

Reference N	O	: :	WTF23D09195614Y

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

Hong Kong

Manufacturer..... : 114538

Address....: : --

Product.....: Wireless Power bank 4000mAh

Model(s)..... : MO9498

Total pages : 69 pages and 5 pages of photo.

Standards..... : | | EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2023-09-06

Date of Test...... : 2023-09-06 to 2023-10-11

Date of Issue..... : 2023-10-13

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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Approved by:

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Almon Zhao / Designated Reviewer



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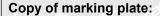
Test item description	Wireless Pow	ver bank 4000mAh
Trademark:	MOB	
Model and/or type reference:	MOB9498	
Rating(s):	Input: DC 5V Output: DC 5 Battery: DC 3	
Remark:	at at	LIER WIFE WITE WALL WALL WALL WALL
Whether parts of tests for the product h	nave been sub	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lal	o information:	
Test items:		
Lab information:	THE ON	the way when the transfer to t
Summary of testing:	11/1	t at the test state with mitter and
Tests performed (name of test and to	est clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020		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	al Difference	(List of countries addressed):
Summary of compliance with Nation	ai Dillerences	s (List of Countries addressed).
EU Group Differences		
20 Group Billiorollogo		
☐ The product fulfils the requirements	of EN IEC 623	368-1:2020+A11:2020.
Use of uncertainty of measurement	for decisions	on conformity (decision rule) :
No decision rule is specified by the applicable limit according to the specified.	ne IEC standa cification in tha	rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
☐ Other: (to be specified, for examp requirements apply)	ole when requir	red by the standard or client, or if national accreditation
	calculated by	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on the decision rule when reporting tes	st results with	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 values are on file with the NCB and testing laboratory that conducted

the testing.









Remark:

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



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TEST ITEM PARTICULARS:	Will will my my and the
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:	☐ UK: 13 A; Others: 16 A;Location: ☐ building ☐ equipment☒ N/A
Equipment mobility:	
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 □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.127kg



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POSSIBLE TEST CASE VERDICTS:	The way and 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:	Mr. Mr. The state of
Date of receipt of test item	See covers page.
Date (s) of performance of tests	See covers page.
GENERAL REMARKS:	LIES OLIES UNLIE WALL WALL WALL WALL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to Throughout this report a ☐ comma / ☒ point is u	the report.
GENERAL PRODUCT INFORMATION:	the street writer while when when my
 Product Description The EUT covered by this report is a Power bank use The manufacturer specified maximum ambient tempincluding 2000 m above sea level. The all electronic components are mounted on PWE ultrasonic welding, all circuits complied with ES1 and 	perature is 25°C. The specified altitude is up to and and and housed in a plastic enclosure which is secured by
Model Differences N/A	EX WILL MULTER MULTER MULTER MULTER MULTER MULTER
Additional application considerations – (Considerations) N/A	rations used to test a component or sub-



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lause	Possible Hazard	CER STEEL	Liter With N	in mer
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
ES1: Lithium Cell output	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2	Battery circuits	Equipment safeguard (e.g., no ignition occurs)	Equipment safeguard (e.g., control of fire spread)	N/A
PS1 WALTER WALTER WALTER	Output circuits	Equipment safeguard (e.g., no ignition occurs)	N/A	N/A
7	Injury caused by hazardous s	ubstances		
Class and Energy Source	Body Part	Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part	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 energy sources are included in the energy source diagram. Insert diagram below

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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

-10-3	Mill Till till till till till till till t	TET IT IT IN IN	The state of the s
4	GENERAL REQUIREMENTS	3 AV 10 AI AV	P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	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	WALLEY WAS
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	√n P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	THE THE STATE OF	N/A
4.4.3.3	Drop tests	L M. M. M.	N/A
4.4.3.4	Impact tests	de the street while and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
in with	Glass impact test (1J)	LIER WITER WITE MILL	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	rick write, write many w	N/A
4.4.3.9	Air comprising a safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	We she she she	Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	Р
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	A P



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Clause	Requirement – Test	Result – Remark	Verdict

	condition	71, 7, 2, 2,	باد
MUTIE A	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors	See below	N/A
4 4	Fix conductors not to defeat a safeguard	ing any and	N/A
ie. antie	Compliance is checked by test	THE THE LITTER WITTER W	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)	M. M. M.	N/A
4.8	Equipment containing coin/button cell batteries	S LIFE OLIER MOLIE MOLIE	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	The The The	N/A
4.8.3	Battery compartment door/cover construction	Et JEK STER BLIEF UN	N/A
	Open torque test	the sure of	N/A
4.8.4.2	Stress relief test	LIER OLIER ORLEGIONE	N/A
4.8.4.3	Battery replacement test	The state of the s	N/A
4.8.4.4	Drop test	- Et Junite mail	N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test	LIE WILL MILL WILL OF	N/A
4.8.5	Compliance	and the second	N/A
Me	30N force test with test probe	MULTE WALL WALL WAS	N/A
JEK .	20N force test with test hook	IN A REPORT	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р
4.10	Component requirements	of let let liet	N/A
4.10.1	Disconnect Device	bri mer mer mer	N/A
4.10.2	Switches and relays	et let let liet .	N/A

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



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

Giddoo	1 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	at the second of	10-11-0
5.3	Protection against electrical energy sources	the sure of the sure	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	while while while whi	₩P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TEX TEX STEX STEE	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	A let set set	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
d .	Accessibility to outdoor equipment bare parts	201 101	N/A
5.3.2.2	Contact requirements	LIER WILL WILL MILL	N/A
_E+ _E	Test with test probe from Annex V	an an	
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIER WILL WILL WALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	a state	N/A
5.3.2.3	Compliance	ET WILL WILL ME M	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	WILL MULL MULL MULL	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The sure sure	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)	P.
5.4.1.5	Pollution degrees	e of the state of	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	white white white wh	N/A
5.4.1.5.3	Thermal cycling test	WILL WILL MULT MULT	N/A
5.4.1.6	Insulation in transformers with varying dimensions	The state of the	N/A
5.4.1.7	Insulation in circuits generating starting pulses	NITE WALL WALL WALL	N/A
5.4.1.8	Determination of working voltage	a at at at	N/A
5.4.1.9	Insulating surfaces	IE WALL MULL MULL ON	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	- NIEK MITER MITER WATER	N/A
5.4.1.10.2	Vicat test	70 x x x	N/A
5.4.1.10.3	Ball pressure test	WILE MULLE MULL MULL	N/A
5.4.2	Clearances	1 A B B	N/A
5.4.2.1	General requirements	LIE MILL MILL MILL	N/A
WILLER	Clearances in circuits connected to AC Mains, Alternative method	Et SLIET WIFET MILIER WI	N/A
5.4.2.2	Procedure 1 for determining clearance	20, 20, 20	N/A
Wer an	Temporary overvoltage	LIFE OUT TO MITE WALL	_



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01	EN IEC 62368-		Manalint
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	Mer were my	N/A
5.4.2.3.2.2	a.c. mains transient voltage	18 11 NICH	mu —
5.4.2.3.2.3	d.c. mains transient voltage	mer are are	~ _
5.4.2.3.2.4	External circuit transient voltage	THE STATE OF STATES	nrie _
5.4.2.3.2.5	Transient voltage determined by measurement	100 111 121 12	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE WITTER WITTER	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	White Milita Milit	N/A
5.4.2.6	Clearance measurement	TEK LIEK OLIEK	N/A
5.4.3	Creepage distances	Mr. Mr. M.	N/A
5.4.3.1	General	LIEF SLIEF SLIEF	N/A
5.4.3.3	Material group	2m, m, m,	<i>*</i> –
5.4.3.4	Creepage distances measurement	Et nitet uniternit	N/A
5.4.4	Solid insulation	1 1 1 N	N/A
5.4.4.1	General requirements	WITE WALL MALL	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation	The same	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	is we me m	N/A
5.4.4.6	Thin sheet material	* TEK TEK LIT	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LITTER STEEL	N/A
. L 2	Number of layers (pcs)	an an an	N/A
5.4.4.6.3	Non-separable thin sheet material	TER TIER WITER	N/A
* #	Number of layers (pcs)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	EK WALTER WALTER WAL	N/A
5.4.4.6.5	Mandrel test	- TEN TEN STE	N/A
5.4.4.7	Solid insulation in wound components	Mr. Mr. Mr.	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
TEK WALTE	Alternative by electric strength test, tested voltage (V), K _R	LIEF WHILE WHILEK W	N/A
5.4.5	Antenna terminal insulation	1 1 1 1 1	N/A
5.4.5.1	General	White will must	N/A
5.4.5.2	Voltage surge test	4 4 15	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
alling.	ar and the state of	Et alle mile unit	mrit mil
5.4.5.3	Insulation resistance (MΩ)	711 72 74	N/A
mr, m	Electric strength test	OLITER WILLES WALLE	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	TEX TEX STEEL	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning	y me me m	N/A
MUSTER	Relative humidity (%), temperature (°C), duration (h)	t whitek whitek white	- MUL -
5.4.9	Electric strength test	at at the	N/A
5.4.9.1	Test procedure for type test of solid insulation	white must must .	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		N/A
5.4.10.1	Parts and circuits separated from external circuits	Er WUTTE MUTT ME	N/A
5.4.10.2	Test methods	at at all	N/A
5.4.10.2.1	General	MULL MULL MULL	N/A
5.4.10.2.2	Impulse test	At A STATE	N/A
5.4.10.2.3	Steady-state test	- 1 1112 1	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TE WRITE WRITE 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	mer mer mer	N/A
5.4.11.2	Requirements	WILL MULL MULL	N/A
LIFELY WALTE	SPDs bridge separation between external circuit and earth	THE STEE RUTER OF	N/A
	Rated operating voltage U _{op} (V)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Mer	Nominal voltage U _{peak} (V)	IEK OLIEK WALTE WAL	_ nr _
TEK	Max increase due to variation ΔU _{sp}	L AL A	_
21/2 21	Max increase due to ageing ΔU _{sa}	WILL MALL MALL	The -
5.4.11.3	Test method and compliance	A ct ct	N/A
5.4.12	Insulating liquid	MUTTE MUTT MUTT	N/A
5.4.12.1	General requirements	at the little	N/A
5.4.12.2	Electric strength of an insulating liquid	ric mer mer m	N/A
5.4.12.3	Compatibility of an insulating liquid	it let let li	N/A
5.4.12.4	Container for insulating liquid	Aur Aug Aug	N/A
5.5	Components as safeguards	the set of	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	Mr. Mr. Mr.	N/A
5.5.2.1	General requirement	TER LIER NITER MIT	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	at let tet itel	N/A
5.5.3	Transformers	in mur mur mi	N/A
5.5.4	Optocouplers	t let the little	N/A
5.5.5	Relays	me me m. 2	N/A
5.5.6	Resistors	TEX LIEX OLITER AND	N/A
5.5.7	SPDs	me me m	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIER WHITE WALTER WALTE	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	EX WILLER WILLER	N/A
State .	RCD rated residual operating current (mA)	the state of the	<u> </u>
5.6	Protective conductor	Write Mure Mer An	N/A
5.6.2	Requirement for protective conductors	at The st	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	and the sail	N/A
SILIE	Protective earthing conductor size (mm²)	et itet itet sitet.	nei —
TIEK "	Protective earthing conductor serving as a reinforced safeguard	THE THE THE	N/A
The The	Protective earthing conductor serving as a double safeguard	and we are	N/A
5.6.4	Requirements for protective bonding conductors	ALTE WALTE WALT WAL	N/A
5.6.4.1	Protective bonding conductors	a at at at	N/A
411.	Protective bonding conductor size (mm²)	The water war.	10 T
5.6.4.2	Protective current rating (A)	LONGER TEN	N/A
5.6.5	Terminals for protective conductors	MULL MULL MULL M	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	MITEL WAITER WALTER WAL	N/A
TEX WALTE	Terminal size for connecting protective bonding conductors (mm)	THE STEE WIFE WATER	N/A
5.6.5.2	Corrosion	70 70 74	N/A
5.6.6	Resistance of the protective bonding system	CER MITER SHITE SHITE	N/A
5.6.6.1	Requirements	The state of	N/A
5.6.6.2	Test Method	NITE INITE MILITANI	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.6.6.3	Resistance (Ω) or voltage drop	the river we will	N/A
5.6.7	Reliable connection of a protective earthing conductor	WALTER WALTER WALTER WALT	N/A
5.6.8	Functional earthing	TEX TEX WIFE WITE	N/A
<i></i>	Conductor size (mm²)	the state of the state of	N/A
in the	Class II with functional earthing marking	THE STEE STEET WITE S	N/A
	Appliance inlet cl &cr (mm)	144 144 14	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	The state of	N/A
5.7.2.1	Measurement of touch current	CLIEF WITE WALL WALL	N/A
5.7.2.2	Measurement of voltage	an at at agt	N/A
5.7.3	Equipment set-up, supply connections and earth connections	Life While while white	N/A
5.7.4	Unearthed accessible parts	EX SLIER WITE WITE W	N/A
5.7.5	Earthed accessible conductive parts	70, 7	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White White White whi	N/A
VILLE 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	EX SEX LITER OUTER OF	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	The tity that the	N/A
5.7.8	Summation of touch currents from external circuits	and and and an	N/A
* "AL	a) Equipment connected to earthed external circuits, current (mA)	NITE WALL WILL WAS	N/A
MILL	b) Equipment connected to unearthed external circuits, current (mA)	EX WALTER WALTER WALTE W	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
2, T	Mains terminal ES	No battery used	N/A
CITE OF	Air gap (mm)	LET THE THE THE	N/A

	6	ELECTRICALLY- CAUSED FIRE	LITE PALITY
35	6.2	Classification of PS and PIS	Р



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	EN IEC 62368-	2 41 22 2	
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P. P
6.2.3	Classification of potential ignition sources	See the following details.	JE P
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	√P
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	un i P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	METEL P
	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	U P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	multe white	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	IFF MILIE WALLER WALLER	N/A
6.4.3.1	Supplementary safeguards	a sit sit sitt s	N/A
6.4.3.2	Single Fault Conditions	MULL MULL MULL MILL	N/A
LITER IN	Special conditions for temperature limited by fuse	At Let JET JE	N/A
6.4.4	Control of fire spread in PS1 circuits	Aut. Aut. My M.	Р
6.4.5	Control of fire spread in PS2 circuits	LEK SEK STEK STEK	P
	Supplementary safeguards	Compliance detailed as follows: 1) Printed board: rated V-0 2) Internal wires: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21. 3) All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying with relevant IEC standard. 4) V-0 plastic enclosure used.	P TELL JUN TELLITE TUN TELLITE TUN TELLITE TUN TELLITE TUN TELLITE TUN TELLITE TUN TUN TUN TUN TUN TUN TUN T



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	EN IEC 62368-		
Clause	Requirement – Test	Result – Remark	Verdict
0.4.0		the straight of the sale	200
6.4.6	Control of fire spread in PS3 circuits	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
6.4.7	Separation of combustible materials from a PIS	with mi mr. mr.	N/A
6.4.7.2	Separation by distance	The state of the	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	P
6.4.8.2	Fire enclosure and fire barrier material properties	Metal enclosure.	Р
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	Metal enclosure.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	white
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
11/1	Openings dimensions (mm)	The wall with the	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
2112 21	Openings dimensions (mm)	WILL MULL MULL MULL	N/A
ALTEK WAL	Flammability tests for the bottom of a fire enclosure	THE WALLEY WALLEY	N/A
et le	Instructional Safeguard	- 1 to 1/2	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
t Jet	Openings dimensions (mm)	and the state of	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	Metal enclosure.	Р
6.4.9	Flammability of insulating liquid	TEX TEX STEE WITE	N/A
6.5	Internal and external wiring	in the in the	Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	PA MILIE
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	un P
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to ac	dditional equipment	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
7.2	Reduction of exposure to hazardous substances	N/A



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Vice murr	Mill Mill All All All All All All All All All	EN IEC 62368-1	it mil mi
Clause	Requirement – Test	Result – Remark	Verdict
, The	M. W.	- ITEK RITER MALTE MALL	The Apr.
7 3	Ozono ovnostiro		NI/A

7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
all the	Personal safeguards and instructions	_
7.5	Use of instructional safeguards and instructions	N/A
CENT S	Instructional safeguard (ISO 7010)	_
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		√P
8.2	Mechanical energy source classifications	L A ST ST	Р
8.3 Safeguards against mechanical energy source		WITE WITE WALL WALL	√n P
8.4	Safeguards against parts with sharp edges and	corners	g [©] P
8.4.1	Safeguards	LIFE WALL MALL MALL	Р
WALTER.	Instructional Safeguard:	MS1: Edges and corners of enclosure	JEK P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	AT A A	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
IER WALTE	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
LIEN	Moving MS3 parts only accessible to skilled person	t at at at	N/A
8.5.2	Instructional safeguard	They are the in	N/A
8.5.4	Special categories of equipment containing moving parts	NITER WHITE WHITE	N/A
8.5.4.1	General	a state of	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	HITE WALL WALL WALL	N/A
8.5.4.2.1	Protection of persons in the work cell	at the tiet tiet a	N/A
8.5.4.2.2	Access protection override	mi mi m	N/A
8.5.4.2.2.1	Override system	- TEX TEX STER OUT	N/A
8.5.4.2.2.2	Visual indicator	The The The Th	N/A
8.5.4.2.3	Emergency stop system	TEK LIEK WITER WITE	N/A
TEK OLIEK	Maximum stopping distance from the point of activation (m)	at the tex step	N/A
t liet	Space between end point and nearest fixed mechanical part (mm)	t it lit in	N/A
8.5.4.2.4	Endurance requirements	write mrs mer m	N/A
WALTEK WA	Mechanical system subjected to 100 000 cycles of operation	SLIER WIFER MITER MILIE	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
	- Mechanical function check and visual inspection	We have the	N/A
aller, all	- Cable assembly:	WITE WILL MULT MULT	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	TEX SIET SLIET SPLIET	N/A
8.5.4.3.1	Equipment safeguards	1. 11. 2	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	TEX WILL WILL M	N/A
8.5.4.3.3	Disconnection from the supply	, , , , , , , , , , , , , , , , , , ,	N/A
8.5.4.3.4	Cut type and test force (N):	white while me we	N/A
8.5.4.3.5	Compliance	at at left left	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
ITEK OLIF	Explosion test	at all the title	N/A
8.5.5.3	Glass particles dimensions (mm):	The Mer Mer My	N/A
8.6	Stability of equipment	et let liet wiet in	N/A
8.6.1	General	MS1: Mass of the unit	N/A
WILL W	Instructional safeguard	TER STER OUTER SOUT	N/A
8.6.2	Static stability	1012 101	N/A
8.6.2.2	Static stability test	THE MILE WALL	N/A
8.6.2.3	Downward force test	+ 11	N/A
8.6.3	Relocation stability	ITE WALTE WALL WALL O	N/A
t Tex	Wheels diameter (mm):	e at at att	_
The .	Tilt test	MULL MULL MULL MU	N/A
8.6.4	Glass slide test	it let let it	N/A
8.6.5	Horizontal force test:	mir mr mr m	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture (the little little)	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	EX TEX STEX WITE OF	N/A
	Test 1, additional downwards force (N):	11/2, 11, 2, 2,	N/A
White A	Test 2, number of attachment points and test force (N)	Whitek whitek white whi	N/A
NLTER WA	Test 3 Nominal diameter (mm) and applied torque (Nm)	MILIER MATER MATER WALTER	N/A
8.8	Handles strength	at at all the	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	at at let det	N/A
10,00	Number of handles	THE WAY THE THE	



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Clause	Requirement – Test	Result – Remark	Verdict

8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	The state of	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	THE STIFF OUTER SOUTH OF	N/A
8.10.3	Cart, stand or carrier loading test	7/1 72	N/A
When !	Loading force applied (N)	the alter mite white whi	N/A
8.10.4	Cart, stand or carrier impact test	The state of the	N/A
8.10.5	Mechanical stability	INLIER WILLE WILL MALL	N/A
LEF ST	Force applied (N)		CLEX-
8.10.6	Thermoplastic temperature stability	THE MULL MULL MAN.	N/A
8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	t test test street out	N/A
10	Instructional Safeguard:	My My My	N/A
8.11.3	Mechanical strength test	LET THE MITE	N/A
8.11.3.1	Downward force test, force (N) applied:	_ 1 1 1 2 2 1	N/A
8.11.3.2	Lateral push force test	THE LIFE RESIDENT WITH A	N/A
8.11.3.3	Integrity of slide rail end stops	M. A. A.	N/A
8.11.4	Compliance	CA VILLER WILL AWILL MA	N/A
8.12	Telescoping or rod antennas	70 T	N/A
mr, m	Button/ball diameter (mm)	No such parts	

9	THERMAL BURN INJURY		In Punt
9.2	Thermal energy source classifications		A P
9.3	Touch temperature limits		P
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	A PER
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy sources		w Ann
9.5	Requirements for safeguards	Mr. Mr. Mr.	Р
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	NC PURE



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

9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	The Are in a	Р
9.6.1	General	TEX STEX SLIEN WITH	MILL P. W
9.6.2	Specification of the foreign objects	W. M. M. M.	Р
9.6.3	Test method and compliance:	THE THE STEE STEE STEELS	RIVE RIVE

10	RADIATION		Р
10.2	Radiation energy source classification	me me m	Р
10.2.1	General classification	See below	N P
A 10	Lasers	Mr. Mr. M.	_
the Tex	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	_
1/1	Image projectors:	E MULL MULL MULL MI	_
alifek (X-Ray	it set set set set	_
41. 20	Personal music player	mi mi m	
10.3	Safeguards against laser radiation	the little alife	N/A
TEK TEK	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	√P
MULTE WA	Instructional safeguard provided for accessible radiation level needs to exceed	While While While While	N/A
LIEK MIT	Risk group marking and location:	LEK TEK LIEK SLITER	N/A
	Information for safe operation and installation	ing my my	N/A
10.4.2	Requirements for enclosures	Et TEX STEE STEEL OF	N/A
,*	UV radiation exposure:	m m n	N/A
10.4.3	Instructional safeguard	- LIER OLIER WLIEF WILL	N/A
10.5	Safeguards against X-radiation	M. M. A.	N/A
10.5.1	Requirements	No X-radiation	N/A
et et	Instructional safeguard for skilled persons	In the state of	_
10.5.3	Maximum radiation (pA/kg)	LIER WILL WILL A	_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	1 + 2+ 2	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
"he	All III I THE ST	The Court Will Mar	The Me	
14	Acoustic output L _{Aeq,T} , dB(A):	10, 2, 7	N/A	
	Unweighted RMS output voltage (mV)::	NITER WITE WITE	N/A	
at .	Digital output signal (dBFS)	20 T	N/A	
10.6.3	Requirements for dose-based systems	RETER METER WALL V	N/A	
10.6.3.1	General requirements	1 1 1	N/A	
10.6.3.2	Dose-based warning and automatic decrease	I'm until until uni	N/A	
10.6.3.3	Exposure-based warning and requirements		N/A	
1/12 /	30 s integrated exposure level (MEL30)	White Whit when	N/A	
CIEN IN	Warning for MEL ≥ 100 dB(A)	at at the	N/A	
10.6.4	Measurement methods	White Mrs. White	N/A	
10.6.5	Protection of persons	at let let	N/A	
20	Instructional safeguards	the me me m	N/A	
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	EX MILER MILLER WILL	N/A	
10.6.6.1	Corded listening devices with analogue input	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
411 2	Listening device input voltage (mV)	White Mur and	N/A	
10.6.6.2	Corded listening devices with digital input	at a said	N/A	
, 3,	Max. acoustic output L _{Aeq,T} , dB(A):	- 2 July 1	N/A	
10.6.6.3	Cordless listening devices	The state of	N/A	
	Max. acoustic output L _{Aeq,T} , dB(A)	in the the the	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General	WILL MULL MULL MULL	71/2 P - 1
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	₹P (
B.2	Normal operating conditions	WILL WILL MULL MULL	P. P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	TEL PATE
antiek.	Audio Amplifiers and equipment with audio amplifiers	- TEK LIEK MITEK MA	N/A
B.2.3	Supply voltage and tolerances	See pages 2 rating.	P
B.2.5	Input test	(See appended table B.2.5)	W. A.
B.3	Simulated abnormal operating conditions	211 211 21	P
B.3.1	General	(See appended table B.3)	Note Bright
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
we	Instructional safeguard	ex outer notice main an	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



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-20.	EN IEC 62368-	2 Th. 12 2	10. 0.
Clause	Requirement – Test	Result – Remark	Verdict
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	TWO Such Battery	N/A
B.3.8	Safeguards functional during and after abnormal	All safeguards remained	P
J. J.	operating conditions	effective	24
B.4	Simulated single fault conditions	THE STIFF WITH SMITH IN	Pr.
B.4.1	General	74, 74	P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	WP
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	F P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	MITEP
B.4.9	Battery charging and discharging under single fault conditions	See annex M	TEX PAI
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	m m m	N/A
C.2	UV light conditioning test	LIER OLIER MITE MILIER	N/A
C.2.1	Test apparatus:	74. 7, 2,	N/A
C.2.2	Mounting of test samples	EF OLIER MOLIE MOLIES W	N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test	LIFE CLIFF WILL WALL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
D D	TEST GENERATORS	er, we also the	N/A
D.1	Impulse test generators	· All the till all	N/A
D.2	Antenna interface test generator	They are are in	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Electrical energy source classification for audio		N/A
- 14	Maximum non-clipped output power (W):		
All Ca.	Rated load impedance (Ω)	CITE WILL WATER	
11	Open-circuit output voltage (V)		
ne in	Instructional safeguard	Will Mill Mill Mill	
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
<u></u>	Audio signal source type:	the with mill with	IV/A
the street	Audio output power (W)	A At At At	_
20,2	Audio output voltage (V)	and my my	_
- Liet			
711 2	Rated load impedance (Ω)	Mur. Mur. Mur. Mur.	
<u> </u>	Requirements for temperature measurement	at the state	N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		TITLE P
F.1	General	, , , , , , , , , , , , , , , , , , ,	J P
Mr.	Language:	English	_
F.2	Letter symbols and graphical symbols	a de de de	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	WILEY
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P TEK WILL
F.3	Equipment markings	t itel litel slite mil	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	nu Pur
F.3.2.1	Manufacturer identification	See copy of marking plate	P
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	Por
F.3.3.1	Equipment with direct connection to mains	THE LIFE WITE WITE	N/A

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211.	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
- an-		Contract we we	- 111	
F.3.3.2	Equipment without direct connection to mains	See above.	P	
F.3.3.3	Nature of the supply voltage	See copy of marking plate.	J/P P	
F.3.3.4	Rated voltage:	See copy of marking plate.	Р	
F.3.3.5	Rated frequency:	DC supply	n P	
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	MULL MULL MULL MU	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	WITEK WITEK WAITER WALTE	N/A	
F.3.5.2	Switch position identification marking	the state of	N/A	
F.3.5.3	Replacement fuse identification and rating markings	LIES WALLE WALL WALL	N/A	
WILL	Instructional safeguards for neutral fuse	EX SITEX WITE WHITE W	N/A	
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A	
F.3.5.5	Neutral conductor terminal	No such parts.	N/A	
F.3.5.6	Terminal marking location		N/A	
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A	
F.3.6.1	Class I equipment	THE LIFE OUT NITE	N/A	
F.3.6.1.1	Protective earthing conductor terminal	In the state of	N/A	
F.3.6.1.2	Protective bonding conductor terminals	it alter mite antic an	N/A	
F.3.6.2	Equipment class marking:	70 1. T	N/A	
F.3.6.3	Functional earthing terminal marking	CHIEF WILL WALL WALL	N/A	
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	MALTEN	
F.3.8	External power supply output marking	See copy of marking plate.	Р	
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P	



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01	EN IEC 62368-	2, 41, 22, 2	N/ 11 1
Clause	Requirement – Test	Result – Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P. P. W. I.
F.4 🖑	Instructions	WILL MUTE WALL MALL	√n P
TEX S	a) Information prior to installation and initial use	See user manual	P
if the	b) Equipment for use in locations where children not likely to be present	THE MULT MULT WAT	N/A
wi	c) Instructions for installation and interconnection	ex write write write wr	N/A
MALTER	d) Equipment intended for use only in restricted access area	Tet lifet stiff with	N/A
*	e) Equipment intended to be fastened in place	We My My A	N/A
Neile Wil	f) Instructions for audio equipment terminals	THE NAME OF THE PARTY OF THE PA	N/A
st se	g) Protective earthing used as a safeguard		N/A
in white	h) Protective conductor current exceeding ES2 limits	THE WILLIAM WILLIAM OF	N/A
MITE	i) Graphic symbols used on equipment	* TEX LITER DITER ON	N/A
STEK .	j) Permanently connected equipment not provided with all-pole mains switch	and and the state state	N/A
264 7	k) Replaceable components or modules providing safeguard function	ancie with with an	N/A
ir. "Aur.	I) Equipment containing insulating liquid	NITE MILITE WALL WALL.	N/A
EX JEX	m) Installation instructions for outdoor equipment	the state of the	N/A
F.5	Instructional safeguards	The West Mer All	N/A
G	COMPONENTS		P
G.1	Switches	MUT, AUT, MUT, AUT,	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	ner me me m	N/A
G.1.3	Test method and compliance	THE THE LITTER STITLE	N/A
G.2	Relays	1 My My 21 3	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	24, 24, 25, 2	N/A



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21,	EN IEC 62368-	1st with our and	211, 21,
Clause	Requirement – Test	Result – Remark	Verdict
an.	W The state of	Er alite and and	mr. m.
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices	THE STEE STEEL IN	N/A
G.3.1	Thermal cut-offs	No such component	N/A
MUCL	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	TER MULTER MULTER MULT	N/A
WALTER	Thermal cut-outs tested as part of the equipment as indicated in c)	t inter united united	N/A
G.3.1.2	Test method and compliance	A St Let	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	LIEK MITEK MITEK MI	N/A
it the	b) Thermal links tested as part of the equipment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.3.2.2	Test method and compliance		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		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions	70 m	N/A
G.4	Connectors	EX STER STEE SALTE	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	aliet mile walle	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	TER TER STER IN	N/A
G.5	Wound components	in my	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	14, 14, 14	N/A
G.5.2	Endurance test	NITE WITE WATER	N/A
G.5.2.1	General test requirements	20 20 3	N/A
G.5.2.2	Heat run test	WILL WILL MALLE	N/A
16t 16	Test time (days per cycle)		er —
" ME	Test temperature (°C):	LIE WALTE WALTE WAS	· -
G.5.2.3	Wound components supplied from the mains	1 1 1 11	N/A
G.5.2.4	No insulation breakdown	MALIE WALL WALL	N/A
G.5.3	Transformers	at at at	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.5.3.1	Compliance method:	Mr. July July	N/A
Write W	Position:	LIER NITER AND THE	N/A
A 1	Method of protection:	211 211 22	N/A
G.5.3.2	Insulation	NITER MITE WALLEN	N/A
et let	Protection from displacement of windings:	1 1	et -
G.5.3.3	Transformer overload tests	TER WALLE WALLE WA	N/A
G.5.3.3.1	Test conditions	L A At A	N/A
G.5.3.3.2	Winding temperatures	White with white	N/A
G.5.3.3.3	Winding temperatures - alternative test method	at at 18th	N/A
G.5.3.4	Transformers using FIW	White Must when	N/A
G.5.3.4.1	General	et tet tet	N/A
, a	FIW wire nominal diameter:	how my my my	
G.5.3.4.2	Transformers with basic insulation only	Et JET JET J	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	Why have the	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	White Mile White	N/A
G.5.3.4.5	Thermal cycling test and compliance	MILL	N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test	The Maria Aug. My	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	MULL MULL MU	N/A
G.5.4.2	Motor overload test conditions	TEX TEX TEX	N/A
G.5.4.3	Running overload test	mer me my	N/A
G.5.4.4.2	Locked-rotor overload test	TEX TEX STEX	N/A
4 A	Test duration (days):	in my min	_
G.5.4.5	Running overload test for DC motors	Et JET STEET IN	N/A
G.5.4.5.2	Tested in the unit	20, 20, 20,	N/A
G.5.4.5.3	Alternative method	- SLIER WITE WITE	N/A
G.5.4.6	Locked-rotor overload test for DC motors	In In the	N/A
G.5.4.6.2	Tested in the unit	OLIER MILE MALLE	M/A
et e	Maximum Temperature	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	N/A
G.5.4.6.3	Alternative method	LIER MALTE WALLE WE	N/A
G.5.4.7	Motors with capacitors	4 14 15 1	/ N/A
G.5.4.8	Three-phase motors	WALLE WALL MALL	N/A
G.5.4.9	Series motors	1 1 1	N/A



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20,	EN IEC 62368-	the west wife when	21, 21,
Clause	Requirement – Test	Result – Remark	Verdict
The .	all are the state and	EL WILL MULL MULL	The The
	Operating voltage		
G.6	Wire Insulation		N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	WILL MULL MULL AND	N/A
G.7	Mains supply cords	<u>, , , , , , , , , , , , , , , , , , , </u>	N/A
G.7.1	General requirements	No such component	N/A
- LIEN	Type:	e at all set	<u> </u>
G.7.2	Cross sectional area (mm² or AWG):	Murit Aug Mur	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	INTIES MALIES WALTES	N/A
G.7.3.2	Cord strain relief	a state of	N/A
G.7.3.2.1	Requirements	THE WALL MALL MAL	N/A
JE STEEL	Strain relief test force (N)	at at all all	N/A
G.7.3.2.2	Strain relief mechanism failure	MULL MULL MULL	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	LET LET STEP	N/A
G.7.3.2.4	Strain relief and cord anchorage material	Wer Aug Aug A	N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection	2 14 14	N/A
G.7.5.1	Requirements	The The Little Rill	N/A
G.7.5.2	Test method and compliance	10 20 20	N/A
MALTE	Overall diameter or minor overall dimension, D (mm)	X WALTER WALTER WALTER	uni –
WILLER OW	Radius of curvature after test (mm)	TEK TEK TEK	atte —
G.7.6	Supply wiring space	mer mer mer a	N/A
G.7.6.1	General requirements	TEX TEX STEX ON	N/A
G.7.6.2	Stranded wire	Vir Me My M	N/A
G.7.6.2.1	Requirements	EF LIEF SLIEF WIFE	N/A
G.7.6.2.2	Test with 8 mm strand	The said to	N/A
G.8	Varistors	t till wife wife	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	ALTER INLIER MALTER AND	N/A
G.8.2.1	General	'u, 'n, 'n, 'n,	N/A
G.8.2.2	Varistor overload test	LIER WALTER WALTER WAL	N/A
G.8.2.3	Temporary overvoltage test	1 1 1	N/A
G.9	Integrated circuit (IC) current limiters	TER WALTER WALTE WALTE	N/A
G.9.1	Requirements	No such component	N/A



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Clause	EN IEC 62368-	2, 41, 72, 2	Mondiet
Clause	Requirement – Test	Result – Remark	Verdict
74	IC limiter output current (max. 5A)	my my my m	_
Mr. M	Manufacturers' defined drift:	aliet niiet unlich wall	_
G.9.2	Test Program	THE ST A ST	N/A
G.9.3	Compliance	RITER UNITED WALLE WALL	N/A
G.10	Resistors	a state set	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	L St St St S	N/A
G.10.3	Resistor test	Weit are Mr. Mr.	N/A
G.10.4	Voltage surge test	at let let let	N/A
G.10.5	Impulse test	auri auri auri au	N/A
G.10.6	Overload test	THE THE LIER WITH	N/A
G.11	Capacitors and RC units	ve me me m	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	The Thirty	N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
ner whi	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
IE WALTE	Type test voltage V _{ini,a} :	TEN ITE STITE BLIEF	_
L 25	Routine test voltage, V _{ini, b}	Mr. M. M.	_
G.13	Printed boards	* TIES WITE WITE WA	N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A
G.13.2	Uncoated printed boards	at at the test	N/A
G.13.3	Coated printed boards	HELL MALL MALL MALL	N/A
G.13.4	Insulation between conductors on the same inner surface	EX MITEL MATTER WATER W	N/A
G.13.5	Insulation between conductors on different surfaces	- LIEK MITER MITER WAY	N/A
	Distance through insulation	211 211 2	N/A
ives the	Number of insulation layers (pcs)	WITE WITE WALTE WALTE	_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	LIER WILL MULL MULL	N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	IE WALTE WALL WALL WA	N/A
G.14.1	Requirements:	1 1 1 1	N/A



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in an	M. W.	EN IEC 62368-1	The All
Clause	Requirement – Test	Result – Remark	Verdict

G.15	Pressurized liquid filled components	141 14.	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	The state of the	N/A
G.15.2.1	Hydrostatic pressure test	PLIER WILL MALL MALL	N/A
G.15.2.2	Creep resistance test	at at all	N/A
G.15.2.3	Tubing and fittings compatibility test	THE WALTE WALL WALL W	N/A
G.15.2.4	Vibration test	e at at at	N/A
G.15.2.5	Thermal cycling test	MULL MALL WALL WA	N/A
G.15.2.6	Force test	at at 1th 1th	N/A
G.15.3	Compliance	Murral Mar Mar Mur	N/A
G.16	IC including capacitor discharge function (ICX)	at the the state	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
IN LITER	ICX with associated circuitry tested in equipment	Et TEX LIER SLIER	N/A
	ICX tested separately	Mr. M. M.	N/A
G.16.2	Tests	y tex trex with with	N/A
SITEK OU	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	THE LIE	_
EL TEX	Mains voltage that impulses to be superimposed on	The same same	_
- Cit	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	The white men were a	_
G.16.3	Capacitor discharge test:	LA STEE WILL SUNTE MAIL MAI	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1 🐠	General	atter antity until unit	N/A
H.2	Method A	in a state	N/A
H.3	Method B	WILL WILL MALL AND	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	the rest rest outer out	_
H.3.1.2	Voltage (V)	Mr. M. M. M.	_
H.3.1.3	Cadence; time (s) and voltage (V):	LIER ALTER PALTER MALTER	_
H.3.1.4	Single fault current (mA)::	of the same	_
H.3.2	Tripping device and monitoring voltage	THE RUINT MITTER WHITE	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	et liet wifet with	N/A
H.3.2.2	Tripping device	24, 24, 24,	N/A
H.3.2.3	Monitoring voltage (V):	+ 18+ 178+ ALTE BLIE	N/A



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Clause	Requirement – Test	is must an a	Result – Remark	Verdict	

J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	J.1 General		N/A
liter will	Winding wire insulation	TEX STEX NUTER NUTER	_
A 1	Solid round winding wire, diameter (mm):	in the second	N/A
whi.	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²)	THE WALTER WALTER WALTER OF	N/A
J.2/J.3	Tests and Manufacturing	t let lift allet mi	ET 17
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	TEX LIER NITER MITE	N/A
LIEK MI	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	let tet tet stet stet is	N/A
K.4	Interlock safeguard override	Mur Au M. 20.	N/A
K.5	Fail-safe		
K.5.1	Under single fault condition	Mr. Mr. A.	N/A
K.6	Mechanically operated safety interlocks	ALTE MITE MITE	N/A
K.6.1	Endurance requirement	2 1 1 1	N/A
K.6.2	Test method and compliance:	The other mile while w	N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	MILL WILL MILL WAS	N/A
Maria M	In circuit connected to mains, separation distance for contact gaps (mm):	MILIER WALTER WALTER WALTER	N/A
LIFE WAL	In circuit isolated from mains, separation distance for contact gaps (mm):	NIFEK WILLER WILLIER WILLER	N/A
ek watie	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A)	The state of	N/A
K.7.3	Endurance test	MITER MALIE WALL WALL WALL	N/A
K.7.4	Electric strength test	L A A A	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	at the state of the	N/A
L.2	Permanently connected equipment	The Maria Maria Maria	N/A
L.3	Parts that remain energized	at all all all a	N/A
L.4	Single-phase equipment	mer, me me m	N/A
L.5	Three-phase equipment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A



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20,	EN IEC 62368-	The way was a	11 12
Clause	Requirement – Test	Result – Remark	Verdict
2/L	All the State of	Et Will WILL MU	14/1
L.6	Switches as disconnect devices	70 T	N/A
L.7	Plugs as disconnect devices	THE WALL WALL WALL	N/A
L.8	Multiple power sources	in the state	N/A
	Instructional safeguard	alter white wall wall	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	P
M.1	General requirements	ITE WALL WALL WALL W	Р
M.2	Safety of batteries and their cells	a state of the s	P.
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	Р
M.3	Protection circuits for batteries provided within the equipment	untill until until wat	P
M.3.1	Requirements	TEX STER OUTER WHITE	nui Pu
M.3.2	Test method	20, 20,	L P
White with	Overcharging of a rechargeable battery (See appended table Annex M)		Р
	Excessive discharging	(See appended table Annex M)	, ILP
	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal		EK P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	Р
M.4.1	General	ALTE WALL VIAL WALL	Р
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	TEE PHILIP
M.4.2.1	Requirements	TEX STEX MITE WAITE	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	J ← P
M.4.3	Fire enclosure	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	the set of	Р



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Clause	Requirement – Test	Result – Remark	Verdict
Ciddoo	Troquiement foot	Trocal Tromant	Vordiot
M.4.4.2	Preparation and procedure for the drop test	Mr. Mr. Mr. Mr.	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P
M.4.4.4	Check of the charge/discharge function Three complete discharge and charge cycles under normal operating conditions.		MILL P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	Р
M.4.4.6	Compliance	t tiet stiet mile oni	P
M.5	Risk of burn due to short-circuit during carrying	g	P
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	TEX TEX LIEX WITE	N/A
M.6	Safeguards against short-circuits	Vi My My My	Р
M.6.1	External and internal faults	Et liet aller wife w	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	⊁ Pr mir
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
LIER	Calculated hydrogen generation rate:	t let let det d	N/A
M.7.2	Test method and compliance	The sur sur in	N/A
WITE OF	Minimum air flow rate, Q (m³/h)	THE THE LITTE MATE	N/A
M.7.3	Ventilation tests	Mer Mer Mr M.	N/A
M.7.3.1	General	THE THE STEEL STEEL	N/A
M.7.3.2	Ventilation test – alternative 1	in the second	N/A
MALTE	Hydrogen gas concentration (%)	EK LIEK MITER MITER ON	N/A
M.7.3.3	Ventilation test – alternative 2	211 211	N/A
WILL T	Obtained hydrogen generation rate:	- LIEK WITER WALTE WAL	N/A
M.7.3.4	Ventilation test – alternative 3	70 To 12 12 12 12 12 12 12 12 12 12 12 12 12	N/A
ine air	Hydrogen gas concentration (%)	MITER WITER WAITE WALL	N/A
M.7.4	Marking:	the state of	N/A
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	et arise with anise and	N/A
M.8.2	Test method	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
M.8.2.1	General	THE LIFE WITH MIN	N/A



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-20,	EN IEC 62368-	Ky alver alver all	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	it with the man	71/2 711
M.8.2.3	Correction factors:	THE THE STIFF OF	The Market
M.8.2.4	Calculation of distance <i>d</i> (mm):	20 M. M. J.	1 1 1 t
M.9	Preventing electrolyte spillage	The tip will mi	N/A
M.9.1	Protection from electrolyte spillage	The file and the	N/A
M.9.2	Tray for preventing electrolyte spillage	TEL SLIFE WITE	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	t stet mitet mitet	N/A
J. C.	Instructional safeguard:	711 A 24	N/A
N JU	ELECTROCHEMICAL POTENTIALS	WILL MILLER MALLE MA	N/A
set s	Material(s) used:		* _(t*_
0	MEASUREMENT OF CREEPAGE DISTANCES A		N/A
y Jiles	Value of X (mm):	at at all the	TEN ON
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		Р
P.1	General	See below	P
P.2	Safeguards against entry or consequences of entry of a foreign object		
P.2.1	General	LEE SLIFE MY	P
P.2.2	Safeguards against entry of a foreign object	7 1 1 2	Р
in winer	Location and Dimensions (mm)	No opening.	White A
P.2.3	Safeguards against the consequences of entry of a foreign object	t tet stet witch	N/A
P.2.3.1	Safeguard requirements	The Au Au	N/A
Marie M	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	Whitek Whitek Whitek Wh	N/A
LIEK JUNLI	Transportable equipment with metalized plastic parts	NIEL MITEL WHIEL WHIT	N/A
P.2.3.2	Consequence of entry test:	and the set	N/A
P.3	Safeguards against spillage of internal liquids	Ite Write Mrs. Mrs.	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	MULL MULL MULL A	N/A
P.3.3	Spillage safeguards	at at all	N/A
P.3.4	Compliance	Were Mer Mer Mr.	N/A
P.4	Metallized coatings and adhesives securing pa	rts the the	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	Et JET JER NITER	N/A
t	Conditioning, T _C (°C)	24, 24, 25,	_
	Duration (weeks)	TEX TEX STEE O	The Will.



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Clause	Requirement – Test	it, Mer, Mr. M.	Result – Remark	Verdict	

Q ,	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	P	
Q.1	Limited power sources	See appended table Annex Q.1	Р	
Q.1.1	Requirements	TEX TEX STER WITE	ner P	
	a) Inherently limited output	W. M. M. A.	N/A	
	b) Impedance limited output	THE LITTLE STITLE STATES OF	P/\	
	c) Regulating network limited output	711 711	N/A	
	d) Overcurrent protective device limited output	ALTER WITE WALTE WAL	N/A	
	e) IC current limiter complying with G.9	The state of the s	N/A	
Q.1.2	Test method and compliance	See below	W P	
	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	NITE P	
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A	
	Maximum output current (A)	my my my m	N/A	
MITE	Current limiting method	THE LIER SLIER BLIE	NI LITE	
R	LIMITED SHORT CIRCUIT TEST			
R.1	General	No such consideration.	N/A	
R.2	Test setup	2 1 2	N/A	
	Overcurrent protective device for test:	THE REST OF STREET WE	11, 44,	
R.3	Test method	The state of	N/A	
aler	Cord/cable used for test	A WILL WILL MALL MALL	1/1/2	
R.4	Compliance	a at at all	N/A	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	WILL MULL MULL MULL	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	
EK TEK WATEK	Samples, material:		1 - S	
	Wall thickness (mm)	THE WITE WALL WALL WA	" "The	
	Conditioning (°C)		£ -{E ¹	
	Test flame according to IEC 60695-11-5 with conditions as set out	Muli muli muli	N/A	
inicia di	- Material not consumed completely	ALTER MILE WALLE WHILE	N/A	
Alt A	- Material extinguishes within 30s		N/A	
n, m,	- No burning of layer or wrapping tissue	LIEF WILL WILL AND A	N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A	
	Samples, material	antic met met m	Page .	
	Wall thickness (mm):	4 4 4	- All	



EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mrs	We will be the second	The water water on a	10/1	
	Conditioning (°C)		et el	
S.3	Flammability test for the bottom of a fire enclosure			
S.3.1	Mounting of samples	the state of the	N/A	
S.3.2	Test method and compliance	WILL AUTH WITH MUTH	N/A	
Et JE	Mounting of samples:	a st set set	TEX-	
40.	Wall thickness (mm):	in Mury Mury Mury	7, 7,	
S.4	Flammability classification of materials	t set the other	N/A	
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	STEEL STEEL WITER MITTER	N/A	
i de d	Samples, material:	Mr. M. M. T.	15	
ry Mrr.	Wall thickness (mm)	LIEF WHILE WHILE WHILE	10 C	
* 4	Conditioning (°C)	and the state of t	(et -	
T Jun	MECHANICAL STRENGTH TESTS		N/A	
T.1	General		N/A	
T.2	Steady force test, 10 N:	WILL MILL MILL MILL	N/A	
T.3	Steady force test, 30 N:	At THE STE	N/A	
T.4	Steady force test, 100 N:	The fact that	N/A	
T.5	Steady force test, 250 N:	The Little	N/A	
T.6	Enclosure impact test	is my my my	N/A	
	Fall test	et tet tet outet	N/A	
	Swing test	Mr. M. M.	N/A	
T.7	Drop test:	TEX NIET MITE MAL	N/A	
T.8	Stress relief test:	M. M. M. M.	N/A	
T.9	Glass Impact Test:	No such glass	N/A	
T.10	Glass fragmentation test		N/A	
n,	Number of particles counted:	No such glass	N/A	
T.11	Test for telescoping or rod antennas		N/A	
Till I	Torque value (Nm)	No such antennas provided within the equipment.	N/A	
Ú W	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A	
U.1	General	ITER SITER BUTER SIRLIE	N/A	

Test method and compliance for non-intrinsically protected CRTs

No CRT provided within the

equipment.

N/A

N/A

N/A

U.2

U.3

Instructional safeguard:

Protective screen



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	711. 22. 7	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

aris.	The the the the the	Et 15 12 12 12 12 12	The same
V	DETERMINATION OF ACCESSIBLE PARTS	Any Any Any Any	N/A
V.1	Accessible parts of equipment	- LIEF WILL MILE MILE	N/A
V.1.1	General	The state of the	N/A
V.1.2	Surfaces and openings tested with jointed test probes	NITER WALTE WALL WALL	N/A
V.1.3	Openings tested with straight unjointed test probes	THE LITER NUTER MILES IN	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	111 111	N/A
V.1.5	Slot openings tested with wedge probe	A STEEL WITE WITE WHI	N/A
V.1.6	Terminals tested with rigid test wire	Chi A A	N/A
V.2	Accessible part criterion	CLIEF WILL WALL WALL	N/A
Xex once	ALTERNATIVE METHOD FOR DETERMINING CLINSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
· CLIET	Clearance	of set set set set	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	The The The The	N/A
Y.3	Resistance to corrosion	St Chile Mile	N/A
Y.3	Resistance to corrosion	_1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	THE WALLE WALLE A	N/A
Y.3.2	Test apparatus	of the text of the sail	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	m m m	N/A
Y.3.4	Test procedure:	THE LIFE STEEL WITE	N/A
Y.3.5	Compliance	Mr. Mr. Mr.	N/A
Y.4	Gaskets	LIER SLIER WILL WHITE	N/A
Y.4.1	General	L 20 2 2 3	N/A
Y.4.2	Gasket tests	IEK RITEK URLIE WALTE W	N/A
Y.4.3	Tensile strength and elongation tests	The state of	N/A
ang -	Alternative test methods	" THE WILL WILL AND	N/A
Y.4.4	Compression test	at the set set	N/A
Y.4.5	Oil resistance	WILL MILL MULL MULL	N/A
Y.4.6	Securing means	at the set of	N/A
Y.5	Protection of equipment within an outdoor enclo	osure and the time of	N/A
Y.5.1	General	t of the state of	N/A
Y.5.2	Protection from moisture	MULL MULL MULL MI	N/A
JE*	Relevant tests of IEC 60529 or Y.5.3	A ST ST ST	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Me	and the second	CIET LIFE MET WALL	The Mr.	
Y.5.3	Water spray test	Mr. M. A.	N/A	
Y.5.4	Protection from plants and vermin	LIER ALIER MLIE MALIE	N/A	
Y.5.5	Protection from excessive dust	1 1 1 1 t	N/A	
Y.5.5.1	General	TER RITER WITE WALL OF	N/A	
Y.5.5.2	IP5X equipment		N/A	
Y.5.5.3	IP6X equipment	MILL WILL WALL WAS	N/A	
Y.6	Mechanical strength of enclosures	L A At At	N/A	
Y.6.1	General	WILL MULL AND CHILL	N/A	
Y.6.2	Impact test	·····i	N/A	

AND AND STREET, STREET



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Jr.	The same	Mrs. Alexander	EN IEC 62368-1	TEL INTER WALTER WA	Tip Mail Mark
	Clause	Requirement – Test	iti muri mu m	Result – Remark	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU_GD_IEC62368_1E

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

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

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	CENELEC COMMON MODIFICATIONS (EN)	THE MUTTER WATER WATER AND	Р
WALTER W	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and and those in IEC 62368-1:2018 are prefixed "Z".	nbers in that column, except for 1:2018.	Property of the second
EL WALTE	Add the following annexes: Annex ZA (normative)Normative references to interr corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code decoded	LIFE WHITE WHITE WA	Por Feit protection
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. T $E = \int_{0}^{T} p(t)^{2} dt$	I TEK NITEK WALTER WALTER	N/A



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

Olddoo	Troquiromont Tool	Troodit Tromant	Volume
2 2 40 4	sound symposium lovel OFI	white mail our of	NI/A
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	antiet untiet untiet unt	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	THE WHITE WHITE WALL	الله المالية الله المالية
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	to much much much	NA WILER
NITEK II	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	white and and an	EX MITEX
3.3.19.5	digital signal level relative to full scale, dBFS	mer mer mer an	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	TEX WALTER WALTER WALTER	an itek an
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.	whitek whitek whitek whi	HER WILLIER
2	Modification to Clause 10		N/A
10.6 Safeguards against acoustic energy sources		the life	N/A
' 'n	Replace 10.6 of IEC 62368-1 with the following:	LIER WILL MALL WALL	The The
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:	White whitek whitek whitek	EX MILEX
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a 	Whitek	AN TEX AND
	subway, at an airport, etc.).	A 16 10 10 10 10 10 10 10 10 10 10 10 10 10	
	subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	et with the whilet whilet	NITE WILTE



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20,	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
21/2	NOTE 1 Protection against acoustic energy sources from	EN VIET MULT MELL	2000 200	
	telecom applications is referenced to ITU-T P.360.	1 1	LET LET	
	NOTE 2 It is the intention of the Committee to allow the	SLIEB MLIE MALIE	mer mer	
	alternative methods for now, but to only use the dose	24. 24. 2.	1 1	
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	LET THE THE	LIE WILL OF	
	possible.	Arra Mar. Mr. M.	7	
	Listening devices sold separately shall comply	a st st s	et the	
	with the requirements of 10.6.6.	The mile unit was	The The	
	These requirements are valid for music or video	100		
	mode only.	TEX LIFE SLIP	White white	
	The requirements do not apply to:	Mr. Mr. M.	20.	
	- professional equipment;	at at at	TEK TEK	
	NOTE 3Professional equipment is equipment sold through	WILL WILL MULL A	We she	
	special sales channels. All products sold through normal electronics stores are considered not to be professional	10. 4.	et et	
	electronics stores are considered not to be professional equipment.	TEX ITEX STIES ON	The state of	
	I SE SEL SEL SEE STEE SMILL SU	2 Mr. Mr. M.		
	 hearing aid equipment and other devices for assistive listening; 	t at at a	LU (L	
	the following type of analogue personal music	in with white white	21/2 20,	
	players:	1 1 x	LIK TEK	
	• long distance radio receiver (for example, a	TER STEEL WITE	WILL WILL	
	multiband radio receiver or world band radio	"Nu nu nu		
	receiver, an AM radio receiver), and	et TEX	LIE LIE .	
	cassette player/recorder;	The sure of	2, 2,	
	NOTE 4 This exemption has been allowed because this	# J	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 LIP WILL WALL	in in	
	extended to other technologies.	24. 20. 2		
	– a player while connected to an external amplifier	TEN TEN LIE	multiple south	
	that does not allow the user to walk around while	The Me Me	10. 1	
	in use.	the state of	TEK JEK	
	For equipment that is alcorly designed or intended	CALIFE MALTE MALTE	Mer. Mer.	
	For equipment that is clearly designed or intended primarily for use by children, the limits of the	20 20 1	et let	
	relevant toy standards may apply.	TEN LIER SLIER IN	الله الله الله	
	At left test milit will wi	he we we we		
	The relevant requirements are given in	at at at a	ALL STEEL SOLL	
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	with mer mer	24.	
10.6.1.2	Non-ionizing radiation from radio frequencies	a state	N/A	
21/20 2	in the range 0 to 300 GHz	WITE WILL WALL	Mr. Mr.	
	The amount of non-ionizing radiation is regulated	20, 7, 1	at at	
	by European Council Recommendation	TER STER STEE	ALT WILL	
	1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic	the the in a		
	fields (0 Hz to 300 GHz).	at at at	TEN NITER IN	
	For intentional radiators, ICNIRP guidelines should	The Mary Mary And	2/1, 2/1,	
	be taken into account for Limiting Exposure to		+ 1 1	
	Time-Varying Electric, Magnetic, and	et like site solie	WELL WILL	
	Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is	14. 14. 14.	4	
	drawn to EN 50360 and EN 50566.	the set of	The Car	



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Life Marie	Mir. My Alexander	EN IEC 62368-1	in all in
Clause	Requirement – Test	Result – Remark	Verdict

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



N/A

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211	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdic	
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	t let let	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.	JUNITE WILLER WILLER WILLER JUNITER WILLER WILLER JUNITER JUNITE	TEX WITEX JUNE WI	
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Martex Martex Martex	N/A	
10.6.3	Classification of devices (new)	at the	N/A	
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A	
	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the ∠Aeq, racoustic 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	untick which	NIEK WALEK	

RS2 limits (new)

not exceed the following:

10.6.3.3

≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.

RS2 is a class 2 acoustic energy source that does

- for equipment provided as a package (player



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01	EN IEC 62368-1	20 20 20	
Clause	Requirement – Test	Result – Remark	Verdict
ah.	W W The State of	and the south of the	211
	with its listening device), and with a proprietary	70 7	14 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	connector between the player and its listening	LEK TEN TEN	Still allie
	device, or where the combination of player and	were are a	20
	listening device is known by other means such as	20	1 1th
	setting or automatic detection, the weekly sound	Let let ter so	Charles of
	exposure level, as described in EN 50332-3, shall	The state was the	20, 20,
	be ≤ 80 dB when playing the fixed "programme		t et e
	simulation noise" described in EN 50332-1.	LET THE STATE STATE	100
	- for equipment provided with a standardized	The The The	20,
	connector (for example, a 3,5 phone jack) that	1 1	11 12
	allows connection to a listening device for general	A LEK STEEL STEEL	The street
	use, the unweighted r.m.s. output level, integrated	The way was	20, 20,
	over one week, as described in EN50332-3, shall	1	J+ J+
	be ≤ 15 mV (analogue interface) or -30 dBFS	LEK TER TIE	Little Marie
	(digital interface) when playing the fixed	With My My My	
	"programme simulation noise" described in EN		et let
10.04	50332-1.	The tree terms	21/0
10.6.4	Requirements for maximum sound exposure	- "III. "III. "	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum	24 24 25.	
	during tests.	1 1 1	Let Chi
	Management at all the manda independent with	LIER SLIPE WITH A	Ur. The
	Measurements shall be made in accordance with	94. 24. 25.	
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.		NI/A
10.6.4.2	Protection of persons	" " " " "	N/A
	Except as given below, protection requirements for		L et
	parts accessible to ordinary persons,	are the diffe	10 M
	instructed persons and skilled persons are	in the the	20, 20,
	given in 4.3.		.ot 20
	NOTE 1 Volume control is not considered a safeguard.	MITER WALTER WALTER	Murry Murry
	Between RS2 and an ordinary person , the basic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	et let
	safeguard may be replaced by an instructional	THE LIFE STEP OF	The Wife.
	safeguard in accordance with Clause F.5, except	The The The Land	
	that the instructional safeguard shall be placed	1 1	Et LET
	on the equipment, or on the packaging, or in the	THE LIFE OUT WIT	19/2 201
	instruction manual.	1 21 24 20 20	
	Alternatively, the instructional safeguard may be	1 1 1	- 18th 3
	given through the equipment display during use.	THE STILL WITH WITH	me me
	A LET TEX STEX MIT WILL WILL	211, 21, 22,	
	The elements of the instructional safeguard		TE TE
	shall be as follows:	ALTE MILL MALL	11/2
	the the the the	24, 24, 2	1
	– element 1a: the symbol △᠀), IEC 60417-	at at alt	TER LIFE
	6044 (2011-01)	alite mili anti anni	1912. 1
	– element 2: "High sound pressure" or equivalent	31, 20, 21	d d
	wording	at at at	The same
		The Will Mary Mark	211 211
	element 3: "Hearing damage risk" or equivalent wording	10 20	4
	wording	1 x 1 1 1	J. J
	= element 1: "Do not listen at high volume lovels		
	- element 4: "Do not listen at high volume levels	e alite walk walk	2/15
	element 4: "Do not listen at high volume levels for long periods." or equivalent wording	MUTTE MUTT MUTT	21/2 ZI



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12,	EN IEC 62368-1	in the one one	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
ari .	THE THE TENT	ALTER OFF MACE	They are
	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.	unlifek whitek whitek wh	UNLIEK UNLIEK
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	ex unliex whitek whitek whitek w	MALIER WALTER
	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	TEX WHITEK WHITEK WAL	iek w
	time, independent of how often and how long the personal music player has been switched off.	A MULTER MULTER MULTER	White Whi
Writer a	A skilled person shall not be unintentionally exposed to RS3.	CLIER STATES STATES	Writer Murit
10.6.5	Requirements for dose-based systems		N/A
	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
nit unit	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.	ALTER WHITER WHITER WHI	EX VIDER VID
10.6.5.2	Dose-based warning and requirements When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an	TEX TEX STEX	N/A



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	EN IEC 62368-1	. "11. "20. "	
Clause	Requirement – Test	Result – Remark	Verdict
ale.	W W TO THE STATE OF THE STATE O	The state of the s	11/2 211
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	- A	LEK LEK
	decrease to compliance with class RS1.	THE STEE STEE	Wig. Wer.
	desired to compliance with stage (10.1)	24 24 24 24 2	
	The warning shall at least clearly indicate that	A ST SET S	TEK LIEB
	listening above 100 % CSD leads to the risk of	Lite with with will	2/2 2/
اد ا	hearing damage or loss.	70. 7	_ +
10.6.5.3	Exposure-based requirements	EX TEX TEX SITE	N/A
	With only dose-based requirements, cause and	The Mr. M.	
	effect could be far separated in time, defying the	at the left	JE JE
	purpose of educating users about safe listening	alite mile spir	The Me
	practice. In addition to dose-based requirements,	20, 20, 2	
	a PMP shall therefore also put a limit to the short- term sound level a user can listen at.	at at the	THE STATE
	term sound level a user can listen at.	Write Mury Angr Al	- 10
	The exposure-based limiter (EL) shall		ct let
	automatically reduce the sound level not to exceed	TEL STEE SITE ONLY	ar con
	100 dB(A) or 150 mV integrated over the past 180	1115 111 111	
	s, based on methodology defined in EN 50332-3.	a at at at	·
	The EL settling time (time from starting level	in the walk walk	Mrs. Mrs.
	reduction to reaching target output) shall be 10 s	70 20	4 24
	or faster.	LET TEXT TEXT	ALTER MITT
	Test of EL functionality is conducted according to	aver were aver a	11. 20.
	EN 50332-3, using the limits from this clause. For		Let Let
	equipment provided as a package (player with its	- CLIE NA	7. " LT. "
	listening device), the level integrated over 180 s	2 10 20	
	shall be 100 dB or lower. For equipment provided		the state of
	with a standardized connector, the unweighted	TEN OUTE WALL WALL	The The
	level integrated over 180 s shall be no more than	70. 2	1- 1
	150 mV for an analogue interface and no more	- TEK TEK TEK	CLIE WILL
	than -10 dBFS for a digital interface.	are were we	211.
	NOTE In case the source is known not to be music (or test	- L X	LET LET
are ar	signal), the EL may be disabled.	The street of th	VIII OVER
10.6.6	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	21/2 21, 22	
	listening device, and with the volume and sound	at at at all	- J (**)
	settings in the listening device (for example, built-	THE MALL WALL	21/2 211
	in volume level control, additional sound features	20 10	
	like equalization, etc.) set to the combination of positions that maximize the measured acoustic	LEK TEK LITER	WILL WILL
	output, the input voltage of the listening device	Mer. Mer. M.	20,
	when playing the fixed "programme simulation	1 1	LET LET
	noise" as described in EN 50332-1 shall be ≥ 75	LIER SLIER BLICK SE	in the
	mV.	16. 24. 20. 20.	
	THE WALL WALL AND THE	at at at a	Ele Sterry
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TEL WILL WILL WILL	211 211
0.6.6.2	Corded listening devices with digital input	to the state of	N/A
WAL.	With any playing device playing the fixed	LIFE RUTE WITE	Mrs. This
	"programme simulation noise" described in EN	111. 111. 12.	
	50332-1, and with the volume and sound settings	at at the	THE STEE
	in the listening device (for example, built-in volume	11 11 11 11 11 11 11 11 11 11 11 11 11	V. 191



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	EN IEC 62368-1	LITE WILL MUT MUT M	
Clause	Requirement – Test	Result – Remark	Verdict
ale.	WI WI TELL ST	er alie mil and make	2/12
antiek anti	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be \leq 100 dB with an input signal of - 10 dBFS.	antifek whifek whifek	WALTEK WA
10.6.6.3	Cordless listening devices	***	N/A
Whitek wh	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the ∠Aeq, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	EL WHITE WHI	S WALTER
10.6.6.4	Measurement method	WILL MULL MULL MULL	N/A
NITEH NIV	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Jist Night	OLITEK IND
3	Modification to the whole document		Р



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AV		35 1 - 9 - 10 - 11 - 00			
. Mr.		EN IEC 62368-1			24
Clause	Requirement – Test	The Marie Land	Result – Remark	Ve	erdict

أأنس	st: M					
16	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2
اد. ع	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
3	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note
711	Table 13					
T.	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note
y£	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4
11.	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2
ď.	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note
	Y.4.5	Note				
ار		1		10° 15°		V .0V .
N	Modification	to Clause 1				
۸		ving note: e of certain substa ent is restricted w			Mrtek Mrt	ET WALTER WA
	Modification	40 4 74				



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Lange Committee	Mr. Mr. Mr. M. M.	EN IEC 62368-1	MULLE MULL	ang.
Clause	Requirement – Test	Result – Remark	Ver	dict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
	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 providing protection in accordance with the rating of the wall socket outlet.	mains	
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause:	No connection to external	N/A
JEK N	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	circuit.	-UEX
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



N/A

Р

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	EN IEC 62368-	re were the	
Clause	Requirement – Test	Result – Remark	Verdict
Mes	W W TEN ST	the wife with our	41/2 41/4
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	MILIER WALTER WHITER	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	LIFE WALTER WALTER WALTER	et while while
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	WALTER WALTER WALTER W	nlifer white
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	LIER WHITEK WHITEK WH	TER UNITED AND
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	whitek whitek whitek	Whitek Whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	it mit white whi	EX MUSTEX MUST
t TEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	a state	المالة المالة
9	Modification to G.7.1		N/A

G.7.1

10

Add the following note:

Modification to Bibliography

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



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EN IEC 62368-1		Tip Maria Maria		
Clause	Requirement – Test	Net Alex Mi A	Result – Remark	Verdict

ale		201
, et	Add the following notes for the standards indicated:	P
WILLEY WI	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 61643-1. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-331 NOTE Harmonized as EN 61643-331.	Whitek whitek
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15 ONLITE WALLES OF THE STATE OF THE ST	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"	N/A SEE SUBSTITUTE SUBSTITUT
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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Villa Muilla	Mr. Mer My	EN IEC 62368-1	TEX MITER WALLER	Write Murit Mirri
Clause	Requirement – Test	The Miles My Man	Result – Remark	Verdict

1127	The	1 12 12 12 12	2 100
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch	No high touch current measured.	N/A
Alifer MALIE	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	TIEF WHITER WHITER WHITER	WHILL WE
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added:	No such external circuits.	N/A
	For separation of the telecommunication network from earth the following is applicable:	White white while wh	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	anties unties anties while set stret nifet anties	un itek uni
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	t et set set	LIEN WIE
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	white wife whites whi	EX WINLIEX
	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	an itet unitet	ONLIEK W
	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	Multer whitek whitek wh	TEL MUTER
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WHITEK WHITEK WHITE	MILITER MA
	and	at the the the	NITEK MILTE
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	THE WILL MILES MAN	LEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NITER WATER WATER WATER	Junitek w
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	the white white white	in it was
MALTEX WA	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	THE WIND WIND WAR	EX WALTER



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	EN IEC 62368-1	iter until white whi	
Clause	Requirement – Test	Result – Remark	Verdict
MULTER MULT	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; the impulse test of 2,5 kV is to be performed	AND LIER WHITEK WHITEK WH	NITE WILLEY TEX WILLEY TEX WILLEY TEX WILLEY
MUT	before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	ER MILLE MILLE MILLS	Aur Aur
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 voltage (230 V).	MILIER WALTER WALTER	N/A THE N/A
5.5.6 MA	Finland, Norway and Sweden To the end of the subclause the following is added: 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.	No such resistors.	N/A
5.6.1 white	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 protected by a 20 A fuse.	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.	LIEK WALTER WALTER WALTER	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.	MATER WALTER WALTER	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.	The miles while while while while the control of th	N/A



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Villa Muilla	EN IEC 62368-1				
Clause	Requirement – Test	The Miles My Man	Result – Remark	Verdict	

5.6.8	Norway	20, 20, 1	Р
Mrtier W	To the end of the subclause the following is	SLIER WILER WILER SUNTER	MILITER
	added: 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.	on the text of the states of	
5.7.6	Denmark	Meri Aug Ang Ang	Р
whitek 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 whitek	WALTE MITER
5.7.6.2	Denmark	TELL OUTER WITE WHILE MY	P
y whitek	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 sources while while	ex Vinti
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. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which	THE MILITER WHITEK	
	may be provided by a retailer, for example.	THE MULTINATE MAY AND A	
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	A AWRITER AWRITER AWRITER AWRITER	
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a	WILL WILL WILLEY	
	connection to protective earthing – and to a television distribution system using	W. M. M. M.	
	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 WALTER WALTER WALTER WALTER	
	see EN 60728-11)"	TEX STEX SLIER BLIER	



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ale c	Mr. All All Mr.	LIE NITER WITE WAS	200
UNLIEK VIN	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	WILLER WILLER WHITE	MUTEX V
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sites in the whites whites	WALTEK WA
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av	Et whitet whitet whitet whi	iciek watek
	apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	of let let let	· SLIER II
on on tres on tres to one test	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."	TEK WALTER WALTER WALTER	
8.5.4.2.3	United Kingdom	No external circuits.	N/A
	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	united united	WALTER WALTE
564 4	required where there is a risk of personal injury.		1 2110
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	A ANTIER ANTIER ANTIER AN	N/A
G.4.2	Denmark To the end of the subclause the following is added:	Not directly connected to the mains	N/A
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	TEX MULTEX MULTER WALTER	IN TEX WILL
whitek wh	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	WALTER WALTER WALTER WAS	WALTER V



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	EN IEC 62368-1	40 - 40	
Clause	Requirement – Test	Result – Remark	Verdict
an.	The the state of	the will will all who	411
	rules shall be provided with a plug in accordance	20. 2	+ 4
	with standard sheet DK 2-1a or DK 2-5a.	TEN TEN LIEN NUT	The state of
	If a single phase equipment having a DATED	They were the in	200
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase		164
	equipment is provided with a supply cord with a	THE THE LIFE WITE	J 18 3
	plug, this plug shall be in accordance with the	in the man	"
	standard sheets DK 6-1a in DS 60884-2-D1 or EN	1 1 1 1	15
	60309-2.	the liter out to make wi	er ar
	the set set item item with whi	24, 24, 25	
	Mains socket outlets intended for providing power	L A A A A A C	E LIFE
	to Class II apparatus with a rated current of 2,5 A	RETURNED WALL WALL	20,0
	shall be in accordance DS 60884-2-D1:2011	70, 70,	1
	standard sheet DKA 1-4a.	Let Tet Tet Te	WITE .
	A A A A THE LIFE	WILL MULL MULL MULL	20,
	Other current rating socket outlets shall be in		16
	compliance with Standard Sheet DKA 1-3a	THE THE LITER SLIPE	اله تناع
	or DKA 1-1c.	" Me My My	
	Mains socket-outlets with earth shall be in	a start of	18th 1
	compliance with DS 60884-2-D1:2011	it with out on the wa	210
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-	711, 21, 2,	4
	5a or DK 1-7a	the state of	1 TILE.
	The state of the s	WILL MUT MUT MUT	211
	Justification:		at
	Heavy Current Regulations, Section 6c	ALTER MITE	STATE Y
G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is	mains	11 K
	added:	it will any a	1. 20.
	TER TER LIFE WITE ME ME AND AND	, t	A 1
	The plug part of direct plug-in equipment shall be	- TEN TEN NITE ON	" Week
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,	"Mer Mer 211 211	
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17,	1 1 1 1	t let
	except that the test of 12.17 is performed at not	THE STEE STEE STATE	W. C.
	less than 125 °C. Where the metal earth pin is	The the in it	
	replaced by an Insulated Shutter Opening Device	at the first	CIENT
	(ISOD), the requirements of clauses 22.2 and 23	LIE WILL MULL WILL	21/2 21
G.7.1	also apply.	10, 2,	NI/A
G.7.1	United Kingdom To the first paragraph the following is added:	EX LIER ALTER WITE IN	N/A
	To the first paragraph the following is added:	Mr. Mr. Mr. Mr.	.1
	Equipment which is fitted with a flexible cable or	at let set is	E CLIE
	cord and is designed to be connected to a mains	THE WALL WALL MAN	20
	socket conforming to BS 1363 by means of that	14	+
	flexible cable or cord shall be fitted with a	LET TEX TEX TEX	W. C.
	'standard plug' in accordance with the Plugs and	will mer were my	100
	Sockets etc. (Safety) Regulations 1994, Statutory		10
	Instrument 1994 No. 1768, unless exempted by	LET THE LIE WITH	16. 1
	those regulations.	1 mr m. m. 1	
	NOTE "Standard plug" is defined in SI 1768:1994 and		1 5 S
	NOTE Standard plug is defined in St 1/08: 1994 and	The tip all the	- CIVE
	essentially means an approved plug conforming to BS 1363 or		



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Villa Muilla	EN IEC 62368-1				
Clause	Requirement – Test	The Miles My Man	Result – Remark	Verdict	

Ireland	1.	N/A
To the first paragraph the following is added:	OLIEK MITEK WILLER WHITE	
Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	THE WALTER WALTER WALTER WAS	EL WAY
Ireland and United Kingdom	THE WALL WALL WALL	N/A
To the first paragraph the following is added:	The state of the	
A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	MITTER WAITE WALL WALL	
ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
Germany	No CRT within the equipment.	N/A
The following requirement applies:	Mur Mur My In	
For the operation of any cathode ray tube intended	LEK TEK TEK STIER	
for the display of visual images operating at an	where My My My	
	Let tet	
approval (Bauartzulassung) and marking.	Marit wat a	
Justification:	CONTRACTOR OF THE STATE OF	
German ministerial decree against ionizing	The the the	
	- LEX TEXT STEEL STEEL	
96/29/EURATOM.	Must mer mer mer	
NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	untited untited untited untited	
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard 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. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard 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. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-33116 Braunschweig.



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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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Maria	Mr. Mr. M.	EN IEC 62368-1	TER WITE WILLE AND	Mr. Mr.
Clause	Requirement – Test	it with the man	Result – Remark	Verdict

5.2	TABLE: Classificati	on of electrical er	nergy sourc	es		4 14	N/A
Supply Voltage	Location (e.g.	Test conditions		Parame	ters	·	ES Class
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
5Vdc	The EUT is	Normal	<60Vdc	in -a	SS	DC	ES1
	designed to be supplied by Type	Abnormal	Jak .	LIER THE	10 17 W	Vice Aller	Mer
	-C port	Single fault – SC/OC	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	at offit is	etek-	EX -TEX	MILIER
4.20Vdc	The EUT is	Normal	<60Vdc	1/1, - 1/1,	SS	DC	ES1
	designed to be supplied by	Abnormal	CEN - CEN	JIE NI	17-17	White all	ry. M
	Internal Li-ion battery cells	Single fault –	71.	16t 16t	CIE!	NITE MI	EX MILI

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 T	5.4.1.8 TABLE: Working voltage measurement				
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
- INLIE WAL	in min m	1/1/2	4 - 24 - 4	et s et.	TEX NITER WITE WHITE
- 1	- 18th 5th	t strik whi	with me	m_ m	- t
Supplementary	y information:				
* *	At Att	LIEN RLIE	MULL MULL	24. 24	

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics								
Method	:	ISO 306 / B50	miter uni —					
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)					
-Weight mer mer mer	40 -t 1t 16	t TEX STEEL	LIE WILL - WILL					
Supplementary information:								
Will The Mr. Mr.	The state of the	TEN TEN NO	The Maria M					

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



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EN IEC 62368-1											
Clause	Requirement – Test	Result – Remark Verdict									
Mes	The The Table of t	* I'm with the way of									
- 6	TEX TEX TEX WITE MUTE AND AND	M. M. T. T. M W.									
Suppleme	ntary information:										
J.	tex tex ster with mit was	an an the lite									

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance										
	cl) and creepage) 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)	
- white our	The Music Auto	7/1	an.	,	- J. J.	Kit.	JE*- J	EK TILLE	WILL 1	

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	MULT WILL	N/A		
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
	SER SER SE	WILL WILL MAN	111 - 21,		et - et
Supplemen	tary information:				
*See also s	ub-clause 5.4.4.9	A JUNE OF			et let i

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz									
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)			
- INLIE WHILL WHILL WE	- 17/V.	- 4	# 11	TEX . JE	- CLIER OF	AE MILIE			
Supplementary information:									
WILL WILL MAY MAY	24	1 1	et .	CENT OF THE	JUE WIT	I WIN I			

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



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The same	M M A St	EN IEC 62368-1	mir any
Clause	Requirement – Test	Result – Remark	Verdict

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		
, m, -	20, 1		Normal	TER METER O	Write Parkers	m -m		
WALTEK -	WILEK M	TET WALLE WALL	Single fault: SC/ OC	et liet si	i ex mirex	LIEK -LIEK		

Supplementary information:

X-capacitors installed for testing are:

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

5.6.6 TABLE: Re	.6 TABLE: Resistance of protective conductors and terminations								
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)					
7, 7	st st set will	Will -WVF	2 1/1 2/						
Supplementary information	on:								
	At ALLY	V 7	- Em - 22						

TABLE	E: Unearthed accessible parts							
	Operating and	Supply	F	Parameters		ES class		
	fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)			
ndary	Normal	. . .€	+ 5781 STE	THE MALTE	"INVER			
	Abnormal: overload	mur - m	an - an	iter "Liek	NLTER N	LIEK-		
	Single fault: SC/ OC	LIER WALLE	Mur Aur.	n in	45th	EK TE		
		Operating and fault conditions Normal Abnormal: overload Single fault:	fault conditions Voltage (V) ndary Normal Abnormal: overload Single fault:	Operating and fault conditions	Operating and fault conditions	Operating and fault conditions		

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	TABLE: Earthed accessible conductive part						
Supply vol	tage (V)	- It LET JET	LIER CLIER OF	NIT WALL W				
Phase(s)		[] Single Phase; [] Three	Phase: [] Delta	[] Wye				
Power Dist	tribution System	[]TN []TT []IT	El STER OU	it with whi				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt			
- 7,,	a at at a	ex alter alter until	we - me	24, 24,	7,			
Metal enclo	osure	neutral open	0.024	ES1	LIFE			
Supplemen	ntary Information:							



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The same	M M A St	EN IEC 62368-1	mir any
Clause	Requirement – Test	Result – Remark	Verdict

5.8	TABLE: Backfeed safeguard in battery backed up supplies							
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
15 JUL 18	CLIER	Incite - Inci	mrnr.		, , , ,	et -16t	TEN - STE	
Suppleme	ntary infor	mation:						
- CIER	alter at	VILL WALL	Mr. Mr.		24 26 ⁴	THE S	JER WIE	

6.2.2	TAI	BLE: Power source	circuit classifi	cations			P
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Battery cir	rcuit	Output pin + to -	1.8	20	36.95	5S	PS2
Outpu	t co	Output pin + to -	4.1	2.6	10.81	5S	PS1
Outpu	t TEX	Signal fault (U1 SC)	TEK OTEK ON	0	0 0	3S	PS1
Outpu	t	Signal fault (NTC OC)	+ <u>0</u> + <u>0</u>	0 0	0	3S VIII	PS1

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1	TABLE: Determ	ination of Arcing PIS			N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
an in	19, 19,	- A A	A TIEN WITE	White was a	r. "15, "1
Supplemen	ntary information:				
in The	24, 24,	" Life	TEN JEN	alte with with	an an

6.2.3.2	5.2.3.2 TABLE: Determination of resistive PIS						
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No			
All primary circuits/com	ponents	WILL MULTER MULTER WALLE	Mury Mur Mur a	Yes (declaration)			

Supplementary information:

All circuits are considered as resistive PIS;

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

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

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



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	Clause	Requirement – Test	Vr. 211. 20	Result – Remark	Verdict

8.5.5 TABLE: Hig	h pressure lamp	J. JEH. JEH	LIER LIER	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
et ifet lifet suit	A STE WALL WALL	7111	4	- 18th 18
Supplementary information	n:			
Supplementary information	n:	711 12 · · ·		16t .5

9.6	TAB	LE: Temperat	ure measure	ments	ts for wireless power transmitters					P
Supply voltage (V)				.:	5V	LIFER	LITET OF	I'E WALT	There	_
Max. transm	it pov	ver of transmit	ter (W)	: ;	5W	111 11		x ex	TEX.	_
		,	r and direct tact	1		eiver and contact	at dista	eiver and nce of 2 nm		eiver and at e of 5 mm
Foreign obje	ects	Object (°C)	Ambient (°C)	Obje (°C		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel dis	С	27.0	24.3	51.0	0	24.6	48.2	24.4	43.6	24.3
Aluminum r	ing	26.4	24.2	60.0	0	24.5	56.4	24.6	52.8	24.4
Aluminum	foil	26.0	24.2	65.4	4	24.5	60.1	24.5	54.3	24.6
Supplementa	ary in	formation:								

5.4.1.4, 9.3, B.1.5, B.2.6	emperature m	easurem	ents				EX WILLEY WI
Supply voltage (V)		:	Condition 1	Condition 2	15 kg	et "Jet	_
Ambient temperature d	(°C):	See below	See below	-nv	-in	_	
Maximum measured te	mperature <i>T</i> of	f part/at:		T (°C	;)		Allowed T _{max} (°C)
Input terminal			30.6	30.5	-+	A+ .	70
Output terminal			30.6	30.5	will.	nr - 24	70
PCB under U1	White white	20	45.8	43.2	/c+	16th 15th	130
Battery body	at at	- Lifeth	41.3	40.9	100 101	7/1	Ref.
Interior wire			28.6	28.5	6 - S	× 7164	80
Enclosure inside near b	attery	ALTER AN	26.5	26.6	2/2	1,1	Ref.
Enclosure outside near	battery		26.3	26.3	164	CLIER N	60*
Ambient	TEX S	et mi	25.0	25.0	21/2	20,	4 - A
Temperature T of	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed	Insulation



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Lange Committee	Mr. Mr. Mr. M. M.	EN IEC 62368-1	MULLE MULL	ang.
Clause	Requirement – Test	Result – Remark	Ver	dict

winding:				T _{max} (°C)	class
THE WALL WALL AND	 25	 20 1 1	Et TET	ali ^e and	the sure of

Supplementary information:

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

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

Condition 2: For power bank only discharge with internal fully battery (max. normal load)

B.2.5	TA	ABLE: Inp	out test					THE STEEL MITTER WITTER
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Condition	1: 0	nly charge	e with intern	al empty	battery (f	or powe	r bank)	We we so in
5Vdc	7.0	0.541	2	2.673	z,	الم	J+-	Battery charge current: 2.069A
Condition	2: 0	nly discha	arge with int	ernal full	y battery (for powe	er bank)	Mr. All All
4.2Vdc	''در	2.829	240 - 11	11.63		ų ,	* K	Battery discharge current: 2.829A
Supplem	entary	/ informat	ion:					
The maxi	mum	measured	d current un	der rated	voltage di	d not ex	ceed 110	% of the rated current.

B.3, B.4 TA	ABLE: Abnor	mal operating	g and fau	lt condit	ion tes	sts		JIE PAL
Ambient tempe	erature T _{amb} (°C)			:	See b	elow	
Power source	for EUT: Man	ufacturer, mo	del/type, c	outputrati	ng:	[LITER WITER WI	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	n
Condition 1: O	nly charge wi	th internal em	pty battery	i ini	التي تخ	, °	The Me M	20,
U1.	S-CIPLE	5Vdc ¹⁾	7hrs	y Wille	WALT	iek nu	Unit shut down imme damage, no hazard. Recoverable.	diately. No
NTC	o-c	5Vdc ¹⁾	7hrs	MULTER.	MITEN.	- WILL	Unit shut down immediately. Repeat 3 times No damage, hazard. Recoverable.	
Condition 2: O	nly discharge	with internal	fully batter	у	The .	JALTA.	Mrs. Mrs. Mrs.	20,
U1 J	S-C IN	4.20 Vdc ²⁾	7hrs	EK WALL	it un	LIEK	Unit shut down imme damage, no hazard. Recoverable.	diately. No
R8	S-C	4.20Vdc ²⁾	7hrs	WALTER	WALT	in.	Unit normally working damage, no hazard. Recoverable.	. No
Output	S-C	4.20Vdc ²⁾	10mins	INLIER V	MITET	White	Unit shut down imme damage, no hazard. Recoverable.	diately. No

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

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



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Jr.	The same	Mrs. Alexander	EN IEC 62368-1	TEL INTER WALTER WA	Tip Mail Mark
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Supplementary information:

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

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

- 1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pr	otection circu	iits f	or batterie	es provid	led v	vithin	the equ	ipment	Р
Is it possible	to install the	battery in a re	evers	e polarity _l	position?.	;				
				•	C	Charg	ging			
Equipment S	Specification		Vo	Voltage (V)					Current (A)	
		See pages 2 rating					100	Se	e pages 2 ra	ing
					Batter	y spe	ecifica	tion		
		Non-recharge	Non-rechargeable batteries						le batteries	
							Discharging	Revers		
Manufact	urer/type	current (A) chargii		harging rrent (A)	Voltage (V) Current (ent (A)	current (A)	chargin current (
GUANGDONG CVATOP NEW ENERGY TECHNOLOGY CO.,LTD / 606090		white white	JUNITER WAS		See B.2	2.5	.5 See B.2.5		VIO WALTER WA	iter Muri
Note: The tes	sts of M.3.2 a	are applicable o	only v	when abov	e appropr	iate	data i	s not ava	ilable.	
Specified ba	ttery tempera	ature (°C)	الك	24		:			10-45	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp.		rrent (A)	Voltage (V)	Obse	ervation
U1 pin 1-8	SC MALTER	Charge	et .	7h	ije t Mi	0.	001	4.20	Unit shutdomediate Recoverable damaged,	ly. ole. No
U1 pin 1-6	SC	Charge	JUN-LT	7h	MULTER	0.	001	4.20	Unit shutdomediate Recoverate damaged,	ly. ole. No
L1	SC	Charge	LIEK	7h	in ^{litele} di	2	.11	4.20	Unit workir	
R4	SC	Charge	۲	7h	TEX-WALT	1	.65	4.20	Unit workir	
U2 pin 1-5	SC	Discharge	;	7h	y - JEX	0.	001	4.20	Unit shutd	



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21/2		EN IEC 62368-1	Mer. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

NITEK MI	EK MITEK	NALTER WALTER W	The M	20	t Cit	7 E.A.	Recoverable. No damaged, no hazard.
R8	SC	Discharge	7h	W. L.T.	6.45	4.20	Unit working normally, no damage, no hazard.
C8	SC	Discharge	7h	ongl <mark>ater</mark> .	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.

Supplementary information:

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

M.4.2	TABLE battery	: Charging sat	feguards for	equipment c	ont	aining a se	econdary lithium	LIFEKP ONL
Maximum	specified	charging voltag	je (V)		r. C	4.25	Mr. Mr. a	
Maximum	specified	charging currer	nt (A)			5	STER NITER IN	_
Highest s	pecified ch	arging tempera	ature (°C)		:	55		
Lowest sp	pecified cha	arging tempera	ture (°C)		: :	10	THE MITE WALTE	
Battery		Operating		Measuremen	t		Observat	ion
manufacturer/type		and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)		
Lowest sp	pecified cha	arging temperat	ure: 10°C	.t			LITT OLITER AND	Life Whi
GUANGDONG CVATOP NEW ENERGY		Normal	4.20	0.5A	tei	Battery mperature: 10°C	The battery charging currendecreases	
TECHNO COLTD		Abnormal-	the sure	1115 - 211		· _ ·	= 18t TEX JEX	
CO.,LTD / 606090		Single fault – (R8 SC under condition 1)	4.20	0.5A	te	Battery mperature: 10°C	The battery charging currer decreases	
Highest s	pecified ch	arging temperat	ture: 45°C	-77	د. اور	- J+	At At I	SER SIFE
GUANGDONG CVATOP NEW ENERGY TECHNOLOGY CO.,LTD / 606090		Normal	4.20	0.001A	tei	Battery mperature: 55.0°C	The battery charging circustop charging	
		Abnormal-	TEK TOLITE	an _{ris} anr	- 3	n _ n	- 4	J.
		Single fault – (R8 SC under condition 1)	4.20	0.001A	te	Battery mperature: 55.0°C	The battery charging circustop charging	

Supplementary information:

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



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The same	M M A St	EN IEC 62368-1	mir any
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Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output	Condition	11 (\(\(\) \(\)	Time (a)	I _{sc} (I _{sc} (A) S (VA)					
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit			
Output	Normal	5.04	-5S	2.6	8	10.81	100			
cet jet	Signal fault (U1 SC)	O'	5S	0	8	0,+	100			
Output	Signal fault (NTC OC)	MITEO MITE	5S	اس وكس	8	0	100			

Supplementary Information:

SC = short circuit, OC = open circuit

* Unit shutdown immediately, recoverable, no hazard.

T.2, T.3, T.4, T.5	TABLE: S	teady force to	est		THE NATER WATER WATER W				
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation			
WITE WA	Mil	me me	101	*	it.	ER LIER WITER WITE MALL V			
- A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- LE	Wells.	They was	W The state of			
INCLES WHILE	16	SY FA	20,	-C14	10 10	- CLIFE MILE WHILE WE			
A 14	N Y A	, E	1/4 "	NO.		3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Supplementa	ary informati	ion:							

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

T.6, T.9	TABLE: Impa	ect test		my my my my	N/A
Location/Pa	nt Material	Thickness (mm)	Height (mm)	Observation	
LIER MITE	Julie Mile	nur m		at let tet stet sites in	LIE OF
	1 1/2 1/2	t Jet Jet	antite and	Me Me Me Me	
ALTE .	White when	an an	d 1	- let telt till still stil	E. JACK
Supplement	tary information	n:			

T.7 TA	ABLE: Drop	test	- XL	N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
. 70, 1		at stat	STER OU	antic mit with win win on
it allet al	LEW MLTE	William Mr.	21, 2,	at at the text state while
10, 10,		at att o	LIER MIE	MILL MILL WAS AND THE THE
Supplementary	/ information:			



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Land College	Mr. Mr. Mr. Mr.	EN IEC 62368-1	Vi. Mar
Clause	Requirement – Test	Result – Remark	Verdict

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

			1			N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
245 24	20	A 15	TEK SLIFE	NITER	Will Mury Mur Mus	211
Supplementary	information:					

X	TABLE: Alternative method for determining minimum clearances distances					
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)		
.TS.	TEK STEK.	TER OUTE - WITE M	r. Mr. M. M.	L St St. All		
Supplementary information:						
I SH SHE SHE SHE WITH ME AN						



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Ġ	EN IEC 62368-1							
	Clause	Requirement – Test	Very All And	Result – Remark	Verdict			

4.1.2	TABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹		
NTC MALE	SHENZHEN YUETAIDA TECHNOLOGY CO.,LTD	104F-4250-60L	R25=100KΩ±1%, B25/50=3950K±1%	EN IEC 62368-1	Test with appliance		
PCB	Shenzhen Hecheng Fast Electronic Technology Co Ltd	1,1a	V-0, 130°C	UL 796	UL E159194		
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	OF 12		
Metal enclosure	Interchangeable	Interchangeabl e	Min. thickness: 1.0mm	EN IEC 62368-1	Test with appliance		
Battery lead wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 26AWG, VW-1	UL 758	ULET WALTE		
Internal Li- ion Cell	GUANGDONG CVATOP NEW ENERGY TECHNOLOGY CO.,LTD	606090	3.7V, 4000mAh	IEC 62133-2: 2017	LCS 200604136A S		

Supplementary information:

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



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Photo Documentation



Figure 1



Figure 2



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Photo Documentation



Figure 3

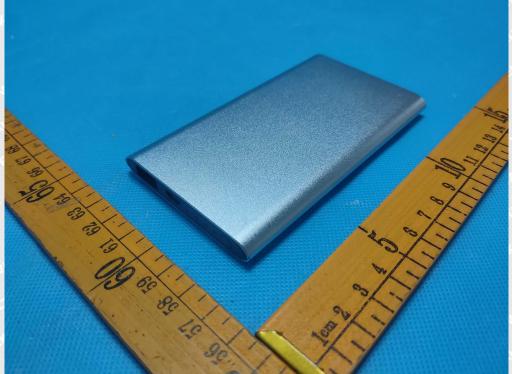
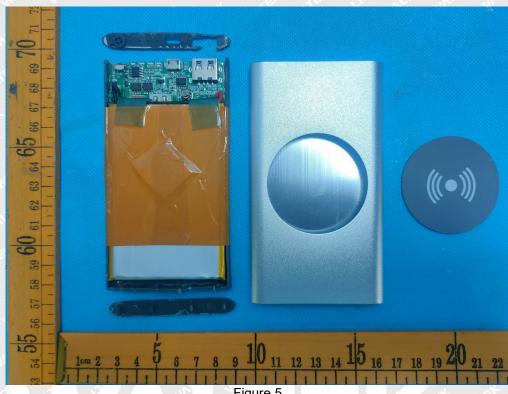


Figure 4



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Photo Documentation





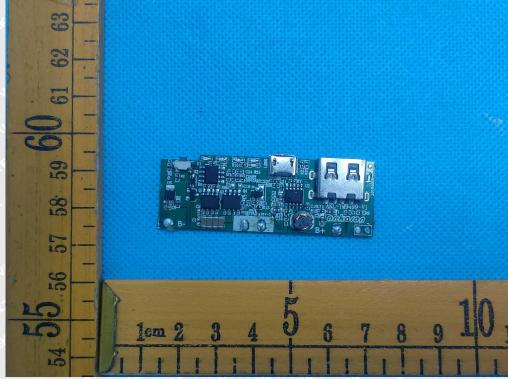


Figure 6



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Photo Documentation

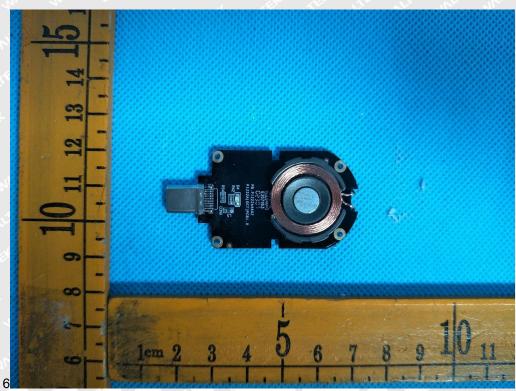


Figure 7

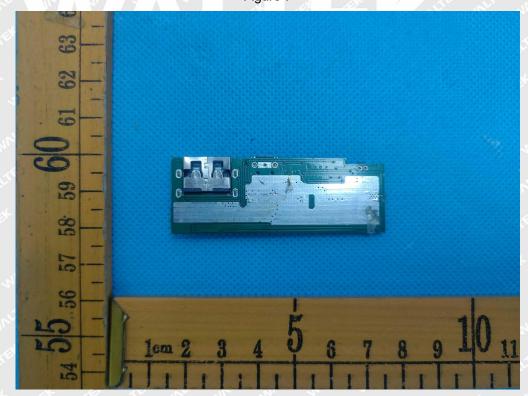


Figure 8



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Photo Documentation

Reference No.: WTF23D09195614Y



Figure 9

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