



TEST REPORT

:	WTF22D08168404Y
in	Mid Ocean Brands B.V.
54	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	116266
S.C.	inter white white white white white the set set
:	RABS 3W round wireless speaker
- Nr	MO6251
:	71 pages and 5 pages of photo.
S. S	EN IEC 62368-1:2020+A11:2020
	Audio/video, information and communication technology equipment- Part 1:Safety requirements
;	2022-08-18
() 	2022-08-18 to 2022-08-28
:	2022-09-07
;	Pass 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.

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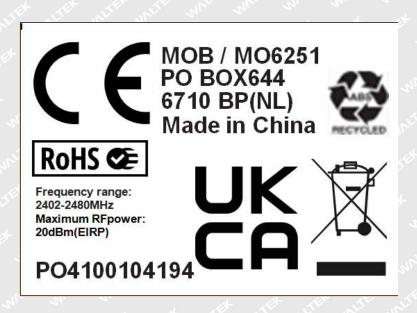
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Test item description	RABS 3W ro	und wireless speaker
Trademark:	MOB	
Model and/or type reference:	MO6251	
Rating(s):		Supplied by Micro USB port); m-ion battery: 3.7Vdc, 300mAh, 1.11Wh
Remark:	1 1	TEX , ITEX NITE , MITE, MALT MAT
Whether parts of tests for the product	have been sub	contracted to other labs:
🗌 Yes 🛛 🖾 No		
If Yes, list the related test items and la	b information:	
Test items:		
Lab information:	t det is	the water water water was the
Summary of testing:	me n.	the state of the s
Tests performed (name of test and	test clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020 The submitted samples were found to the requirements of above specificatio		No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Summary of compliance with Nation EU Group Differences		et ret ret when when we write the
Summary of compliance with Nation EU Group Differences	s of EN IEC 623	368-1:2020+A11:2020.
Summary of compliance with Nation EU Group Differences ☑ The product fulfils the requirements Use of uncertainty of measurement ☑ No decision rule is specified by the applicable limit according to the the applicable limit according t	s of EN IEC 623 for decisions he IEC standar crification in the	368-1:2020+A11:2020. on conformity (decision rule): rd, when comparing the measurement result with the at standard. The decisions on conformity are made
Summary of compliance with Nation EU Group Differences	s of EN IEC 623 for decisions he IEC standar incertainty ("sir	368-1:2020+A11:2020.
Summary of compliance with Nation EU Group Differences ☑ The product fulfils the requirements Use of uncertainty of measurement ☑ No decision rule is specified by the applicable limit according to the specified by the measurement ut "accuracy method"). ☐ Other:(to be specified, for example requirements apply) Information on uncertainty of measurement area	s of EN IEC 623 for decisions he IEC standar incertainty ("sir ole when require urement: e calculated by	368-1:2020+A11:2020. on conformity (decision rule): rd, when comparing the measurement result with the at standard. The decisions on conformity are made nple acceptance" decision rule, previously known as ed by the standard or client, or if national accreditation the laboratory based on application of criteria given by
Summary of compliance with Nation EU Group Differences ☐ The product fulfils the requirements Use of uncertainty of measurement ☐ No decision rule is specified by the applicable limit according to the specified by the ap	s of EN IEC 623 for decisions he IEC standar incertainty ("sir ole when require urement: e calculated by cation of test m in the application est results with	368-1:2020+A11:2020. on conformity (decision rule): rd, when comparing the measurement result with the at standard. The decisions on conformity are made nple acceptance" decision rule, previously known as



Copy of marking plate:

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



Remark:

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

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TEST ITEM PARTICULARS:	nit whit whit will be the set
Product group:	🛛 end product 🛛 built-in component
Classification of use by:	 Ordinary person Instructed person Skilled person
Supply Connection:	□ AC mains □ DC mains □ not mains connected: □ ES1 □ 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 in 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
Equipment mobility:	 movable hand-held transportable direct plug-in stationary for building-in wall/ceiling-mounted SRME/rack-mounted other:
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ☑ other: not Mains connected
Class of equipment:	□ Class I □ Class II □ Class II □ Class III □ Class III
Access location:	N/A □ restricted access area □ outdoor location □
Pollution degree (PD)	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	40°C 🔲 Outdoor: minimum°C
IP protection class	
Power Systems:	□ TN □ TT □ ITV _{L-L} ⊠ not AC mains
Altitude during operation (m):	🛛 2000 m or less 🔲m
Altitude of test laboratory (m):	🖾 2000 m or less 🔲 m
Mass of equipment (kg):	🖾 0.16kg

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POSSIBLE TEST CASE VERDICTS:	white sure war was the total of
- 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:	a war we want the
Date of receipt of test item	: 2022-08-18
Date (s) of performance of tests	: 2022-08-18 to 2022-08-28

GENERAL REMARKS:

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

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

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

GENERAL PRODUCT INFORMATION:

Product Description

- 1. The EUT covered by this report is a RABS 3W round wireless speaker used as audio apparatus. It is supplied by external power supply or by internal lithium ion battery or Micro USB port supply.
- 2. The manufacturer specified maximum ambient temperature is 40°C. The specified altitude is up to and including 2000 m above sea level.

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3. The all circuits complied with ES1 and PS1, PS2, no other circuit existed.

Model Differences

N/A

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



Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All internal circuit	Ordinary	N/A	N/A	N/A	
ES1: Lithium Cell 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: >15 Watt circuits, <100 Watt circuits (Lithium Cell output)	Enclosure	See 6.3	See 6.4.5 and 6.4.8	N/A	
PS1: <15 Watt circuits	PCB	- N/A	N/A	N/A	
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A	
7	Injury caused by hazardous substances				
Class and Energy Source	Body Part (e.g., Skilled)		Safeguards		
(e.g. Ozone)		В	S	R	
N/A	N/A	N/A	N/A	N/A	
8	Mechanically-caused injur	у			
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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Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	SVI 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 ς Ρ
4.4.3.1	General	2 Jun 2n 1	Р
4.4.3.2	Steady force tests	(See Annex T.2 and T.5).	С ^С Р,
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	P
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 m	Glass impact test (1J)	white white white white w	N/A
8 1	Push/pull test (10 N)	S A A A	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	a at at all	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.3, 4.4.3.4, 4.4.3.8, no safeguard damaged.	P
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	at at at at a	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P

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Clause	Requirement – Test	Result – Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors	See below	Р
et 50	Fix conductors not to defeat a safeguard	at at at set	5 P.S
- an	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socke	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)	let set wet with	N/A
4.8 Equipment containing coin/button cell batteries			N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	a at at at	N/A
4.8.3	Battery compartment door/cover construction	Mr. Mr. M. M	N/A
INLIE .	Open torque test	the set and all all	N/A
4.8.4.2	Stress relief test	when the star is	N/A
4.8.4.3	Battery replacement test	at ante and	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test	The other other would be	N/A
4.8.4.6	Crush test	SN ST St	N/A
4.8.5	Compliance	A INTER INTER WATE WA	N/A
jet-	30N force test with test probe	i i at at a	N/A
mr. m	20N force test with test hook	white white white white	N/A
4.9	Likelihood of fire or shock due to entry of cond	uctive object	P
4.10	Component requirements	MITE MALTE MALT MAL	N/A
4.10.1	Disconnect Device	s at at at	N/A
4.10.2	Switches and relays	in which which which we	N/A

5	ELECTRICALLY-CAUSED INJURY		- 4 ⁰ P - 4
5.2	Classification and limits of electrical energ	ly sources	Р
5.2.2 👋	ES1, ES2 and ES3 limits	with mill white white white	20 P 2
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	_ S ⁽ ∕⊂P _ S
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

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Clause	Requirement – Test	Result – Remark	Verdict	
5.2.2.7	Audio signals	and when the set	N/A	
5.3	Protection against electrical energy sources	THE STREE MUTCH SPACE	Р	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	and the state state	P	
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	her mer were so	N/A	
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	Set on the on the on the o	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	
mer m	Accessibility to outdoor equipment bare parts	white white white white	N/A	
5.3.2.2	Contact requirements	m t it it	N/A	
e. me	Test with test probe from Annex V	white white white white	<u> </u>	
5.3.2.2 a)	Air gap – electric strength test potential (V)	e at the tit	N/A	
5.3.2.2 b)	Air gap – distance (mm)	white white white w	N/A	
5.3.2.3	Compliance	at at at a	N/A	
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A	
5.4	Insulation materials and requirements	10 10 . 10 . 10	, SP	
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A	
5.4.1.3	Material is non-hygroscopic	the set still	N/A	
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	Р	
5.4.1.5	Pollution degrees	white white where we	N/A	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	NUTER INTER WATER WATE	N/A	
5.4.1.5.3	Thermal cycling test	in the state of the	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	NUTE MATE MALL MAL	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	a at at at	N/A	
5.4.1.8	Determination of working voltage	it water water water w	N/A	
5.4.1.9	Insulating surfaces	at the state is	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	white white when wh	N/A	
5.4.1.10.2	Vicat test	White would would would	N/A	
5.4.1.10.3	Ball pressure test	a at at all	N/A	
5.4.2	Clearances	LIES WALL WALL WALL	N/A	
5.4.2.1	General requirements	at at at at	N/A	
NI	Clearances in circuits connected to AC Mains, Alternative method	white white white white	N/A	
5.4.2.2	Procedure 1 for determining clearance	stres where which which	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict	

	Temporary overvoltage	AND THE ALL A	_
5.4.2.3	Procedure 2 for determining clearance	aller mile intro white	N/A
5.4.2.3.2.2	a.c. mains transient voltage	and the state	
5.4.2.3.2.3	d.c. mains transient voltage	NUTER INTER WALLS WALL	
5.4.2.3.2.4	External circuit transient voltage	s it it it	
5.4.2.3.2.5	Transient voltage determined by measurement	it water which which we	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	t mintet whitet whitet whi	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	The state white white	N/A
5.4.2.6	Clearance measurement	W W At	N/A
5.4.3	Creepage distances	with mite white white	N/A
5.4.3.1	General	i i it it	N/A
5.4.3.3	Material group	er white white white wh	
5.4.3.4	Creepage distances measurement	to the state of the	N/A
5.4.4	Solid insulation	white white white white	N/A
5.4.4.1	General requirements	at the set	N/A
5.4.4.2	Minimum distance through insulation	a fait and	N/A
5.4.4.3	Insulating compound forming solid insulation		S [®] N/AS
5.4.4.4	Solid insulation in semiconductor devices	in mur mur an a	N/A
5.4.4.5	Insulating compound forming cemented joints	t set stat when wi	N/A
5.4.4.6	Thin sheet material	me me me me	N/A
5.4.4.6.1	General requirements	Tet the wife wife	N/A
5.4.4.6.2	Separable thin sheet material	Mr. m. m.	N/A
the write	Number of layers (pcs)	with with out on the	N/A
5.4.4.6.3	Non-separable thin sheet material	and the second sec	N/A
when	Number of layers (pcs)	let write while while w	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	- the state with and	N/A
5.4.4.6.5	Mandrel test	m. m. m	N/A
5.4.4.7	Solid insulation in wound components	THE STREE MUTER MUTER	N/A N
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_{\rm P}$, $K_{\rm R}$, d , $V_{\rm PW}$ (V)	at the set set	N/A
r ster	Alternative by electric strength test, tested voltage (V), K_{R}	with with the	N/A
5.4.5	Antenna terminal insulation	white white white all	N/A
5.4.5.1	General	a at at a	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.2	Voltage surge test	with with all	N/A
5.4.5.3		the set set	
5.4.5.3	Insulation resistance (MΩ)	1 4 4 A	N/A
and the second	Electric strength test	the state	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MIT WALL WALL W	N/A
5.4.7	Tests for semiconductor components and for cemented joints	LET WALLEY WALTE WAL	N/A
5.4.8	Humidity conditioning	t set set we	N/A
STER AL	Relative humidity (%), temperature (°C), duration (h)	whi when we	-
5.4.9	Electric strength test	When when when	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at	N/A
5.4.9.2	Test procedure for routine test	the support of the support	N/A
5.4.10	Safeguards against transient voltages from external circuits	et milet whilet whi	N/A
5.4.10.1	Parts and circuits separated from external circuits	s at at	N/A
5.4.10.2	Test methods	UNITED WATE WITH	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test	and and a	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	WINT WITT WIT	N/A
5.4.11	Separation between external circuits and earth	- INDER UNDER WAT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	Jet with with	N/A
5.4.11.2	Requirements	and all m	N/A
WITT WITT	SPDs bridge separation between external circuit and earth	NUTE WALTER WALTER	N/A
NN LIE	Rated operating voltage U _{op} (V)	et set site out	<u> </u>
at	Nominal voltage U _{peak} (V)	me in m	
where w	Max increase due to variation ΔU_{sp}	THE NUMBER	whit _
de la	Max increase due to ageing ΔU_{sa}	201 - 20 - 20	
5.4.11.3	Test method and compliance	white white white	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements	LICE INTERNITE M	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid	at the white will	N/A
5.4.12.3	Container for insulating liquid		N/A



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Clause	Requirement – Test	Result – Remark	Verdict

5.5	5 Components as safeguards		N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	the set state with	N/A
5.5.2.1	General requirement	her me me	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	LET WALLEY WALLEY WALLEY	N/A
5.5.3	Transformers	t at all all all	N/A
5.5.4	Optocouplers	me me me m	N/A
5.5.5	Relays	let ster ster wife	N/A
5.5.6	Resistors	me me me	N/A
5.5.7	SPDs	The street white white	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at set set wet	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	when we we we	N/A
me a	RCD rated residual operating current (mA)	white white white white	
5.6	Protective conductor	at the state	N/A
5.6.2	Requirement for protective conductors	S MAL WIT	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	- me me m	N/A
5.6.3	Requirement for protective earthing conductors	t stat stat when when	N/A
	Protective earthing conductor size (mm ²)	When the the	
WALTE W	Protective earthing conductor serving as a reinforced safeguard	MALIER WALTER WALTER WALTER	N/A
iliter whi	Protective earthing conductor serving as a double safeguard	NITER WALTER WALTER WALTER	N/A
5.6.4	Requirements for protective bonding conductors	s at at at	N/A
5.6.4.1	Protective bonding conductors	it white white when we	N/A
Jet	Protective bonding conductor size (mm ²)	- at let set al	_
5.6.4.2	Protective current rating (A)	mer mer mer m	N/A
5.6.5	Terminals for protective conductors	at at all all all	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	when we we we	N/A
t set	Terminal size for connecting protective bonding conductors (mm)	in which which when a	N/A
5.6.5.2	Corrosion	et intre white white wh	N/A
5.6.6	Resistance of the protective bonding system	a at at a	N/A
5.6.6.1	Requirements	white white white white	N/A



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Clause	Requirement – Test Re	esult – Remark	Verdict	
5.6.6.2	Test Method	white white white wh	N/A	
5.6.6.3	Resistance (Ω) or voltage drop	the the state with	N/A	
5.6.7	Reliable connection of a protective earthing conductor	net net write wiret	N/A	
5.6.8	Functional earthing	All the th	N/A	
NILLES NILLES	Conductor size (mm ²)	t whet which white as	N/A	
. A	Class II with functional earthing marking	The second second	N/A	
when	Appliance inlet cl &cr (mm)	street marter white wh	N/A	
5.7	Prospective touch voltage, touch current and prot	ective conductor current	N/A	
5.7.2	Measuring devices and networks	uter intre watter water	<i>⊲</i> ∿`N/A	
5.7.2.1	Measurement of touch current	a to the det	N/A	
5.7.2.2	Measurement of voltage	E WALTE WALT WAL	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	with mitter whiter w	N/A	
5.7.4	Unearthed accessible parts	in the state	N/A	
5.7.5	Earthed accessible conductive parts	INTER MATTE MATTE WAT	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	at with with	N/A	
1 1	Protective conductor current (mA)	a la st	N/A	
an with	Instructional Safeguard	A NUTE AND ANNUT A	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	Tet Tet outet of	N/A	
5.7.7.1	Touch current from coaxial cables	the me in the	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	NITER MAILER WAITER MAIL	N/A	
5.7.8	Summation of touch currents from external circuits	let white white white	N/A	
et white	a) Equipment connected to earthed external circuits, current (mA)	ALTER MUTER MALTER W	N/A	
INLIEK	b) Equipment connected to unearthed external circuits, current (mA)	the till with an	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
MUTE IN	Mains terminal ES No	o battery used	N/A	
A 6	Air gap (mm)	We we set	N/A	
		5 16 5° 20		

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Classification of PS and PIS

6.2



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Clause	Requirement – Test	Result – Remark	Verdict	
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P-	
6.2.3	Classification of potential ignition sources	See the following details.	5 ⁰¹ P 5	
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 and abnormal operating conditions		P	
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P NITE P	
	Combustible materials outside fire enclosure	No such parts	N/A	
6.4	Safeguards against fire under single fault conditions		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	att a funite water	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TEN WATER WATER WATER OF	N/A	
6.4.3.1	Supplementary safeguards	t at at at	N/A	
6.4.3.2	Single Fault Conditions	which wat wat wh	N/A	
NJEK I	Special conditions for temperature limited by fuse	at let set set	N/A	
6.4.4	Control of fire spread in PS1 circuits	white white show she	Р	
6.4.5	Control of fire spread in PS2 circuits	at the set set	P	



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Clause	Requirement – Test	Result – Remark	Verdict	
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: 1) Printed board: rated V-0	P.t	
	Whitek whitek whitek whitek whitek whitek	 2) Internal wires: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21. 	antifet av	
whitek mitek whitek white whitek	and and the an	 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 of plastic enclosure used 	ALTEX ALT	
6.4.6	Control of fire spread in PS3 circuits	White white white wh	N/A	
6.4.7	Separation of combustible materials from a PIS	the state of	N/A	
6.4.7.2	Separation by distance	white white white white	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.	Р	
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 of plastic enclosure used	NITE P.N	
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A	
6.4.8.2.2	Requirements for a fire enclosure	V-0 of plastic enclosure used	Р	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	P	
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A	
6.4.8.3.2	Fire barrier dimensions	it it set set	N/A	
6.4.8.3.3	Top openings and properties	No top opening	N/A	
in the	Openings dimensions (mm)	at the state what a	N/A	
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A	
WALLE S	Openings dimensions (mm)	The state out of and	N/A	
strek	Flammability tests for the bottom of a fire enclosure	at at at at	N/A	
1 - Sr.	Instructional Safeguard	White white white white	N/A	
6.4.8.3.5	Side openings and properties	No side openings	N/A	
	Openings dimensions (mm)	and the second second	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 of plastic enclosure used	P	



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

6.4.9	Flammability of insulating liquid	AN AN A A	N/A
6.5	Internal and external wiring	Internal and external wiring	
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.	white white
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	et Pet
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 a	ditional equipment	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	P
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
SUL	Personal safeguards and instructions	<u>به</u>
7.5	Use of instructional safeguards and instructions	N/A
NUL S	Instructional safeguard (ISO 7010)	_
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	et the the states of	P
8.3	Safeguards against mechanical energy sources	me m m	P
8.4	Safeguards against parts with sharp edges and	corners	
8.4.1	Safeguards	me me se at	Р
in m	Instructional Safeguard:	MS1: Edges and corners of enclosure	P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	e at at at a	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
nt su	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
an when	Moving MS3 parts only accessible to skilled person	Tet aller mile waite	N/A
8.5.2	Instructional safeguard:	the state	N/A
8.5.4	Special categories of equipment containing moving parts	at white white white w	N/A
8.5.4.1	General	THE THE STREET OF	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
8.5.4.2	Equipment containing work cells with MS3 parts	white white white and	N/A
8.5.4.2.1	Protection of persons in the work cell	UTER INTER INTER WATE	N/A
8.5.4.2.2	Access protection override	with the state	N/A
8.5.4.2.2.1	Override system	NUTER INTEL WALTE WATE	N/A
8.5.4.2.2.2	Visual indicator	a at at at	
8.5.4.2.3	Emergency stop system	ALL WALL WALL WALL W	N/A
WALTER N	Maximum stopping distance from the point of activation (m):	Martet and some white	N/A
UNLIEK WAY	Space between end point and nearest fixed mechanical part (mm):	street suret sourcet summe	N/A
8.5.4.2.4	Endurance requirements	all we we at	N/A
in white	Mechanical system subjected to 100 000 cycles of operation	STEL MAILE MAIL WALL	N/A
white	- Mechanical function check and visual inspection	et the street on the sul	N/A
. A	- Cable assembly:	with the second	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	WALTER WALTER WALTE WALT	N/A
8.5.4.3.1	Equipment safeguards	at aller outer	N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply	The other optimized of the	N/A
8.5.4.3.4	Cut type and test force (N):	and the state	N/A
8.5.4.3.5	Compliance	* mutet where white wh	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
me m	Explosion test:	unite white white white	N/A
8.5.5.3	Glass particles dimensions (mm):	at at set set	N/A
8.6	Stability of equipment	ment white white white	N/A
8.6.1	General	MS1: Mass of the unit	N/A
194 194	Instructional safeguard:	and any an an a	N/A
8.6.2	Static stability	- stet stret stret with	N/A
8.6.2.2	Static stability test:	Mr. Mr. In .	N/A
8.6.2.3	Downward force test	whet whet white white	N/A
8.6.3	Relocation stability	the the state	N/A
in more	Wheels diameter (mm):	THE WITH WALT WALT	
t set	Tilt test	1 1 A At	N/A
8.6.4	Glass slide test	and white white white with	N/A
8.6.5	Horizontal force test:	a at at a	N/A

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

8.7	Equipment mounted to wall, ceiling or other structure		N/A
8.7.1	Mount means type:	No wall or ceiling	_√N/A
8.7.2	Test methods	When the state of the	N/A
er m	Test 1, additional downwards force (N):	NUTER INLIE WALL WALL	N/A
IEK WALTEN	Test 2, number of attachment points and test force (N):	let affet outet ontret an	N/A
MUTEK.	Test 3 Nominal diameter (mm) and applied torque (Nm)	+ ret ret riet w	N/A
8.8	Handles strength	mur mur m. m.	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	de de la ser	N/A
LIE WALL	Number of handles	with street wheet while	
t it	Force applied (N):	a ser the set	×-
8.9	Wheels or casters attachment requirements	ret ourer intre- would we	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	NUTER MALIE WALL WAL	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test	The NUT WALK WALK V	N/A
t st	Loading force applied (N):	i i it it	N/A
8.10.4	Cart, stand or carrier impact test	MUTER WALTE WALL WA	N/A
8.10.5	Mechanical stability	a at at the	N/A
m. m	Force applied (N)	white white white white	-201-
8.10.6	Thermoplastic temperature stability	at at let set	N/A
8.11	Mounting means for slide-rail mounted equipme	nt (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	. mer mer mi m	N/A
MUTER	Instructional Safeguard:	- tet the with all all	N/A
8.11.3	Mechanical strength test	m m m m	N/A
8.11.3.1	Downward force test, force (N) applied:	LIFE NITE MITCH	N/A
8.11.3.2	Lateral push force test	Mr. Mr. Ju Ju	N/A
8.11.3.3	Integrity of slide rail end stops	TEX MITER MATE WALTER	N/A
8.11.4	Compliance	w w t	N/A
8.12	Telescoping or rod antennas	It's INTER MALTE MALL WI	N/A
, etc	Button/ball diameter (mm):	No such parts	_

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

9	THERMAL BURN INJURY		. P.+-
9.2	Thermal energy source classifications	with mile white white	P -
9.3	Touch temperature limits	i i at at	"P
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	° Ros
9.4	Safeguards against thermal energy sources	the second	, P_s∳
9.5	Requirements for safeguards	et aller outer white whi	ŇŘ
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P.K.
9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	me me me me	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	when when we we	N/A
9.6.3	Test method and compliance:	A 10 . 10	N/A

10	RADIATION		50° P.55
10.2	Radiation energy source classification	were super super super super-	Р
10.2.1	General classification	See below	P
4	Lasers	Mur mur m m	
WALTE N	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	—
r. m.	Image projectors	NUTER ANUTE ANTI ANT	
et 50	X-Ray	+ + + + +	
- the	Personal music player	i main water war with	
10.3	Safeguards against laser radiation		N/A
ANT -	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lam (including LED types)	ps and lamp systems	Р
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P
WALTE	Instructional safeguard provided for accessible radiation level needs to exceed	E at whitet whitet white wh	N/A
Set	Risk group marking and location	the state of the	N/A



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- Cor	EN IEC 62368-	the were over our	In In
Clause	Requirement – Test	Result – Remark	Verdict
MA	Information for safe operation and installation	The super super super	N/A
10.4.2		At 1t 5t	N/A N/A
10.4.2	Requirements for enclosures	and when when	N/A
10.4.3	UV radiation exposure:	the set of a	N/A N/A
10.4.3 10.5	Instructional safeguard:	and when when all	N/A
	Safeguards against X-radiation	No V rediction	
10.5.1	Requirements	No X-radiation	N/A
104	Instructional safeguard for skilled persons		
10.5.3	Maximum radiation (pA/kg)	when the the	<u> </u>
10.6	Safeguards against acoustic energy sources	the the street	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	set ster ster of	N/A
1 At-	Acoustic output <i>L</i> _{Aeq,T} , dB(A):	in the the second	N/A
NALIT	Unweighted RMS output voltage (mV):	et with aller with	N/A
A	Digital output signal (dBFS):	with the start	N/A
10.6.3	Requirements for dose-based systems	aller aller and	N/A
10.6.3.1	General requirements	Mr. M. S.	N/A
10.6.3.2	Dose-based warning and automatic decrease	at antibar	N/A
10.6.3.3	Exposure-based warning and requirements		N/A
Mun	30 s integrated exposure level (MEL30):	The mile white white	N/A
t st	Warning for MEL ≥ 100 dB(A)	i s at at	- N/A
10.6.4	Measurement methods	MALLE WALL WALL	N/A
10.6.5	Protection of persons	t to the	N/A
w_{n} , w_{n}	Instructional safeguards:	WALTE WALL WALL	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	stat minate sources and	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
m	Listening device input voltage (mV):	iter intro white white	N/A
10.6.6.2	Corded listening devices with digital input	· · · · ·	N/A
m. n	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	white white white	N/A
10.6.6.3	Cordless listening devices	the state	N/A
1. 24	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	INTERNATION WALL W	N/A

В	NORMAL OPERATING CONDITION TESTS CONDITION TESTS AND SINGLE FAULT (P ^I P ^I
B.1	General	with with with white wh	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P P
B.2	Normal operating conditions	iter atter outer worth worth	JUP J



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	EN IEC 62368-	N. W. W. N.	
Clause	Requirement – Test	Result – Remark	Verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
let i	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	Р
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test:	(See appended table B.2.5)	S P
B.3	Simulated abnormal operating conditions	the me we we w	Р
B.3.1	General	(See appended table B.3)	P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
NUTE N	Instructional safeguard:	let stet stet with	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	No such output terminals	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	E Po
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	.√°P
B.4	Simulated single fault conditions		P.
B.4.1	General		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	EK WAL
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)	Nº Pa
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	THE P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	W ^C P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P



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Clause	Requirement – Test	Result – Remark	Verdict
B.4.9	Battery charging and discharging under single fault conditions	See annex M	P +
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	the must may make a	N/A
C.2	UV light conditioning test	of the state of	N/A
C.2.1	Test apparatus:	with the with the	N/A
C.2.2	Mounting of test samples	the set set all	N/A
C.2.3	Carbon-arc light-exposure test	me me me	N/A
C.2.4	Xenon-arc light-exposure test	tet stet still miller	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	TEX STER MILE SMILE SM	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		_Ä/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIL	NING AUDIO AMPLIFIERS	P
E.1 🖑	Electrical energy source classification for audi	o signals	«М ^С Р ~
St . 54	Maximum non-clipped output power (W):	(See appended table B.2.5)	
- n	Rated load impedance (Ω):	(See appended table 4.1.2)	<u> </u>
t State	Open-circuit output voltage (V):	(See appended table B.2.5)	- 6
- an	Instructional safeguard:	Provided in the manual	
E.2	Audio amplifier normal operating conditions	- let set set all	P
	Audio signal source type:	(See appended table B.2.5)	
LITE MAL	Audio output power (W):	(See appended table B.2.5)	
st st	Audio output voltage (V):	(See appended table B.2.5)	
WALT	Rated load impedance (Ω):		·
UNLIEK .	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	P
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		SUL P S
F.1	General	let get get wet	N ST P _S
	Language: English		_
F.2	Letter symbols and graphical symbols	at the set when	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	PA



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Clause	Requirement – Test	Result – Remark	Verdict
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3 💉	Equipment markings	alifet miner antic antic the	N [™] P ∖
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	LIEF P
F.3.2	Equipment identification markings	See below for details.	-√ ^P P
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	∽ ⁰ P
F.3.3	Equipment rating markings	See below for details.	Р
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	S P.S
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р
F.3.3.4	Rated voltage:	See copy of marking plate.	Р
F.3.3.5	Rated frequency:	DC supply	Р
F.3.3.6	Rated current or rated power:	See copy of marking plate.	P VIE
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	which we want	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	White white white white	N/A
F.3.5.2	Switch position identification marking:	tet tet stret with	N/A
F.3.5.3	Replacement fuse identification and rating markings:	white with white the	N/A
- 20	Instructional safeguards for neutral fuse:	with which when when	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	- tet the street mit	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	untit white white white	N/A
F.3.6.1.1	Protective earthing conductor terminal:	at let set set	N/A
F.3.6.1.2	Protective bonding conductor terminals:	the man man and a	N/A
F.3.6.2	Equipment class marking:	at the tree when w	N/A
F.3.6.3	Functional earthing terminal marking:	me m. m. a.	N/A



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20.	EN IEC 62368-	<u></u>	<u>y</u>
Clause	Requirement – Test	Result – Remark	Verdict
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	t Jet
F.3.8	External power supply output marking	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	
F.4	Instructions	at at at 5	► P
m 1	a) Information prior to installation and initial use	See user manual	P
NETER WAY	b) Equipment for use in locations where children not likely to be present	at white white	N/A
de de	c) Instructions for installation and interconnection		N/A
nin t	d) Equipment intended for use only in restricted access area	the watthe water water of	N/A
me	e) Equipment intended to be fastened in place	t while while while whi	N/A
d-	f) Instructions for audio equipment terminals	No. 1 Acres	N/A
we way	g) Protective earthing used as a safeguard	with mile mile white	N/A
LIEK MAL	h) Protective conductor current exceeding ES2 limits	Tet set whet whet	N/A
st it	i) Graphic symbols used on equipment	a she she she	N/A
white	j) Permanently connected equipment not provided with all-pole mains switch	et white white white w	N/A
WALTER V	k) Replaceable components or modules providing safeguard function	MALIER WALTER WALTER WALT	N/A
Set .	I) Equipment containing insulating liquid	at at at at	N/A
1. 24.	m) Installation instructions for outdoor equipment	white white white white	N/A
F.5 5	Instructional safeguards	A A A A	N/A
G	COMPONENTS		Р
G.1	Switches	of the tot the a	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	at at at a	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
G.1.3	Test method and compliance	and met offer	N/A	
G.2	Relays	Tet still suffer	N/A	
G.2.1	Requirements	No relay used.	N/A	
G.2.2	Overload test	street intreet interesting	N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	fet uset asset with	N/A	
G.2.4	Test method and compliance	the star and	N/A	
G.3	Protective devices	et allet when white	N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
un un	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	MILLER MALLE WALLE W	N/A	
LIC WAL	Thermal cut-outs tested as part of the equipment as indicated in c)	NITER WAITER WAITER WAI	N/A	
G.3.1.2	Test method and compliance	at let stat sta	N/A	
G.3.2	Thermal links	No such component	N/A	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	WATER WAITER WAITER	N/A	
JIEK N	b) Thermal links tested as part of the equipment	at a state	N/A	
G.3.2.2	Test method and compliance	a sunt su	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	Whitek whitek whitek	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	wifet whilet whilet a	N/A	
G.3.5.2	Single faults conditions:	State of the	N/A	
G.4	Connectors	White white white wh	N/A	
G.4.1 🦽	Spacings	No such component	, √ [_] N/A	
G.4.2	Mains connector configuration:	ANNE WITH WITH	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	nitet mitet moutet	N/A	
G.5	Wound components		N/A	
G.5.1 🖋	Wire insulation in wound components	No such component	N/A	
G.5.1.2	Protection against mechanical stress	a state	م الم	
G.5.2	Endurance test	ALTER MALTE WALL WAL	N/A	
G.5.2.1	General test requirements	a at at at	N/A	
G.5.2.2	Heat run test	Super Mart Mart	N/A	
Set	Test time (days per cycle):	at at at		



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Clause	Requirement – Test	Result – Remark	Verdict	

	Test temperature (°C):	W W L A	
G.5.2.3 📣	Wound components supplied from the mains	white white white white	Ä/A
G.5.2.4	No insulation breakdown	the state	N/A
G.5.3	Transformers	NUTE INTE WALL WAL	N/A [®]
G.5.3.1	Compliance method:	i shat at	~~N/A_
The	Position:	white white white white w	N/A
Set	Method of protection:	L A A A A	N/A
G.5.3.2	Insulation	white white white white	N/A
. Set al	Protection from displacement of windings:	at at at at	
G.5.3.3	Transformer overload tests	which which which which	N/A
G.5.3.3.1	Test conditions	at let set set ster	N/A
G.5.3.3.2	Winding temperatures	the Aller Aller Aller	N/A
G.5.3.3.3	Winding temperatures - alternative test method	at the state strate	N/A
G.5.3.4	Transformers using FIW	me me me	N/A
G.5.3.4.1	General	t ster ster outer out	N/A
at a	FIW wire nominal diameter:	when the second second	
G.5.3.4.2	Transformers with basic insulation only	felt and	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	the set with	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	t at at the	N/A
G.5.3.4.5	Thermal cycling test and compliance	white white white white	N/A
G.5.3.4.6	Partial discharge test	at the set we	N/A
G.5.3.4.7	Routine test	me me me	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	the say and say	N/A
G.5.4.2	Motor overload test conditions	et utet sufer mute so	N/A
G.5.4.3	Running overload test	the start of the	N/A
G.5.4.4.2	Locked-rotor overload test	The wife when white white	N/A
dt i	Test duration (days):	which we are	
G.5.4.5	Running overload test for DC motors	where our and and which	N/A
G.5.4.5.2	Tested in the unit	i i i it	N/A
G.5.4.5.3	Alternative method	LIET MALTER MALLE MALL V	N/A
G.5.4.6	Locked-rotor overload test for DC motors	i i it it	√ N/A
G.5.4.6.2	Tested in the unit	and and and and and	N/A
1. Art	Maximum Temperature:		N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
G.5.4.6.3	Alternative method	I WILL WILL WILL	N/A	
G.5.4.7	Motors with capacitors	At 5t 5th	N/A	
G.5.4.7	Three-phase motors	with with with y	N/A	
G.5.4.9	Series motors	the set set a	N/A	
0.5.4.9	Operating voltage	me and and an	IN/A	
0.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the state with mit		
G.6	Wire Insulation		N/A	
G.6.1	General	Only ES1 existed	N/A	
G.6.2	Enamelled winding wire insulation	me m m	N/A	
G.7	Mains supply cords	the state states	N/A	
G.7.1	General requirements	No such component	N/A	
LITE MALIN	Type:	the state state of	<u> </u>	
G.7.2	Cross sectional area (mm ² or AWG):	in the main is	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	et whitet whitet white	N/A	
G.7.3.2	Cord strain relief	et tet set	N/A	
G.7.3.2.1	Requirements	white sure sure s	N/A	
NITER IN	Strain relief test force (N):	at the	N/A	
G.7.3.2.2	Strain relief mechanism failure		N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	and the set of	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	me m m	N/A	
G.7.4	Cord Entry	of the tree with	N/A	
G.7.5	Non-detachable cord bend protection	the second	N/A	
G.7.5.1	Requirements	The sheet out of	N/A	
G.7.5.2	Test method and compliance	m m m	N/A	
the super	Overall diameter or minor overall dimension, <i>D</i> (mm)	NUTER MALIE MAIL		
WALT	Radius of curvature after test (mm)	et the street mile	- 1	
G.7.6	Supply wiring space	The In the	N/A	
G.7.6.1	General requirements	ALTER MUTER MATE		
G.7.6.2	Stranded wire	an an a	N/A	
G.7.6.2.1	Requirements	ALTER WATE WATE W	N/A	
G.7.6.2.2	Test with 8 mm strand	an an at	N/A	
G.8	Varistors		N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	ST SINTER WINDER WALTE	N/A	
G.8.2.1	General	1 A A	N/A	



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- in	EN IEC 62368-	the water water water of	$h_{1} = h_{2}$
Clause	Requirement – Test	Result – Remark	Verdict
G.8.2.2	Varistor overload test	winter winter whe will	N/A
G.8.2.3	Temporary overvoltage test	at st st at	N/A
G.9	Integrated circuit (IC) current limiters	where the me in	N/A
G.9.1	Requirements	No such component	
<u>G.9.1</u>	IC limiter output current (max. 5A)		N/A
CER OF	Manufacturers' defined drift	and the state of the	
0.0.0	the state of the state of the	. M. M. W. A	
G.9.2	Test Program	t jet stat states	N/A
G.9.3	Compliance	m. m. m.	N/A
G.10	Resistors	Langet with matter white	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	and all the state	N/A
G.10.3	Resistor test	- m. m. r	N/A
G.10.4	Voltage surge test	et the aller other of	N/A
G.10.5	Impulse test	241. 24. 24.	N/A
G.10.6	Overload test	white white white white	N/A
G.11	Capacitors and RC units	All She A	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	iter white white white a	N/A
G.12 🖉	Optocouplers		N/A
where .	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
mer m	Type test voltage V _{ini,a} :	white white white white	
dt i	Routine test voltage, V _{ini, b} :	when the state	
G.13	Printed boards	with out of any and and a	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	- it it it it is	N/A
G.13.3	Coated printed boards	MUT MUT MUT MIL	N/A
G.13.4	Insulation between conductors on the same inner surface	white white white white	N/A
G.13.5	Insulation between conductors on different surfaces	Lifet whilet antifet mailet	N/A
+ st	Distance through insulation:	i d at at	N/A
m	Number of insulation layers (pcs):	er untit white white wh	_
G.13.6	Tests on coated printed boards		N/A



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20	EN IEC 62368-	<u> </u>	24. 24.
Clause	Requirement – Test	Result – Remark	Verdict
<u> </u>		the write write are all	
G.13.6.1	Sample preparation and preliminary inspection	1 1 1 1 5	N/A
G.13.6.2	Test method and compliance	white white white white	N/A
G.14	Coating on components terminals	the state of the	N/A
G.14.1	Requirements	NUTE MADE MALE MALE	N/A
G.15 🖉	Pressurized liquid filled components	a de de det	_ ∧ N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	e at at at	N/A
G.15.2.1	Hydrostatic pressure test	WALT WAL WAL WAL	N/A
G.15.2.2	Creep resistance test	at at all it	N/A
G.15.2.3	Tubing and fittings compatibility test	white white white white	N/A
G.15.2.4	Vibration test	at let let set	N/A
G.15.2.5	Thermal cycling test	the she was she	N/A
G.15.2.6	Force test	of the set set .	N/A
G.15.3	Compliance	me me me	N/A
G.16	IC including capacitor discharge function (ICX)	- tet the state of	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
NUT NOL	ICX with associated circuitry tested in equipment	set sure white	N/A
s d	ICX tested separately		N/A
G.16.2	Tests	The street with south	N/A
t minet	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test :	t the set with a	
State of	Mains voltage that impulses to be superimposed on	when we we shall so	
and an	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	and when the the	_
G.16.3	Capacitor discharge test:	NUTE WALT WALT WALT	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	</td
H.1	General	TE MALL WAL MAL A	N/A
H.2 🖉	Method A		N/A
Н.3	Method B		N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V)	200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200	
H.3.1.3	Cadence; time (s) and voltage (V)	of the state of the	×
11.0.1.0			



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1999. 1999.	EN IEC 62368-1	the me in	24. 1.
Clause	Requirement – Test	Result – Remark	Verdict
	Tripping douing and manifesting offered	white white all we	NI/A
H.3.2	Tripping device and monitoring voltage	the states	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	WALTE WALT WALT WAT	N/A
H.3.2.2	Tripping device	the tree atter outer	N/A
H.3.2.3	Monitoring voltage (V):	an an in in	N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	JT INTERLEAVED	N/A
J.1	General	t set set set a	N/A
	Winding wire insulation:	mur mur m. m.	_
INLIE	Solid round winding wire, diameter (mm):	the state state with	N/A
Jet JI	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²)	all all the set set	N/A
J.2/J.3	Tests and Manufacturing	ite which which which	
к	SAFETY INTERLOCKS		N/A
K.1	General requirements	m. m. m	N/A
white of	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mech	nanism	N/A
K.3	Inadvertent change of operating mode		N/A
К.4 🖉	Interlock safeguard override	and the state	N/A
K.5	Fail-safe	on the she she	N/A
K.5.1	Under single fault condition	t the state street of	N/A
K.6	Mechanically operated safety interlocks	and and any an	N/A
K.6.1	Endurance requirement	The street with and	N/A
K.6.2	Test method and compliance:	me m m	N/A
K.7 💉	Interlock circuit isolation	THE ALTER MUTER MUTER	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at the set with	N/A
Tek	In circuit connected to mains, separation distance for contact gaps (mm):	when the set	N/A
NU V	In circuit isolated from mains, separation distance for contact gaps (mm):	wint whe whe with	N/A
in m	Electric strength test before and after the test of K.7.2	unite units units units	N/A
K.7.2	Overload test, Current (A):	TEX NIFEX MITEX MATE	N/A
K.7.3	Endurance test	In the second	N/A
K.7.4	Electric strength test	et outer uniter and all	N/A
L	DISCONNECT DEVICES		N/A
L.1 🕔	General requirements	19 N. N. N.	N/A



N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
SULT	When the second second	- MITER MITER MATTER MATT	when when	
L.2	Permanently connected equipment	30 1 1	N/A	
L.3	Parts that remain energized	white white white white	N/A	
L.4	Single-phase equipment	m m to the	N/A	
Ľ.5 🖑	Three-phase equipment	LIER NUTER WITE WALL W	N/A	
L.6 🧹	Switches as disconnect devices		N/A	
L.7	Plugs as disconnect devices	et marter until unit un	N/A	

L.8	Multiple power sources	i it it it is	N/A
m.	Instructional safeguard:	while while white white	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TI	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements	white when when when	Р
M.2 🧹	Safety of batteries and their cells	at let set ster .	کې P
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	et P set
M.3	Protection circuits for batteries provided within the equipment	or whit whit whit will	P
M.3.1	Requirements	ALTER INTER WALL WALL	-30°₽ - 4
M.3.2	Test method		Р
in win	Overcharging of a rechargeable battery	(See appended table Annex M)	Р
in white	Excessive discharging	(See appended table Annex M)	P
WALTER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
WALTER N	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	NUTE PUNC
M.4	Additional safeguards for equipment containin lithium battery	g a portable secondary	P
M.4.1	General	me me me	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.	antiP uni

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Requirements

M.4.2.1



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0			N
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 of plastic enclosure used	JUP P
M.4.4	Drop test of equipment containing a secondary lithium battery	tet tet with with	P
M.4.4.2	Preparation and procedure for the drop test	her when the sh	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	R.
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	N ^{III} P
M.4.4.6	Compliance	all the state with	N P
M.5	Risk of burn due to short-circuit during carryin	g	Р
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	at the state of	N/A
M.6	Safeguards against short-circuits	white white and an	Р
M.6.1	External and internal faults	At STR. NITE	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	P STRAP
M.7	.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
Set 5	Calculated hydrogen generation rate	at at at at	N/A
M.7.2	Test method and compliance	star white white white	N/A
et stret	Minimum air flow rate, Q (m ³ /h):	at at at at	N/A
M.7.3	Ventilation tests	when the me in	N/A
M.7.3.1	General	+ set stat stat al	N/A
M.7.3.2	Ventilation test – alternative 1	my my my m	N/A
INLIE MA	Hydrogen gas concentration (%):	alt alt whet whet whet	N/A
M.7.3.3	Ventilation test – alternative 2	me me in m	N/A
LIE MALI	Obtained hydrogen generation rate:	Tet wet aller aller	N/A
M.7.3.4	Ventilation test – alternative 3	sh sh st	N/A
white	Hydrogen gas concentration (%):	et allet plies print and	N/A
M.7.4	Marking:	20. 20. 2	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	Mr. Mr. M. W.	N/A
M.8.2	Test method	the life alles alles	N/A
M.8.2.1	General	the sale say in the	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	the street outer south and	$2 - \frac{-2}{2}$
M.8.2.3	Correction factors:	the the state	*
M.8.2.4	Calculation of distance d (mm)	t white white white white	m
M.9	Preventing electrolyte spillage	a state of	N/A
M.9.1 👋	Protection from electrolyte spillage	White white white white	N/A
M.9.2	Tray for preventing electrolyte spillage	it at at set	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	the white white white w	N/A
m	Instructional safeguard:	et outer white white wh	N/A
N	ELECTROCHEMICAL POTENTIALS	a to the state	N/A
me i	Material(s) used:	white white white white	m.
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
the star	Value of <i>X</i> (mm):	a sunt and	m. — ,
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		J ^{er} P
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of entry of a foreign object		P
P.2.1	General	mer me me m	Р
P.2.2	Safeguards against entry of a foreign object	wet wet with white	, P
4	Location and Dimensions (mm):	No opening.	
P.2.3	Safeguards against the consequences of entry of a foreign object	NITER WAITER WAITER WAITER	N/A
P.2.3.1	Safeguard requirements	at that they will be	N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	when when we we	N/A
with the	Transportable equipment with metalized plastic parts	water were water water	N/A
P.2.3.2	Consequence of entry test:	MITER MALTE WALT WALT	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	s at at at a	⊘ N/A
P.3.3	Spillage safeguards	White white when wh	N/A
P.3.4	Compliance	the state of	N/A

10.



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Å	Clause	Requirement – Test	Result – Remark	Verdict	

P.4	4 Metallized coatings and adhesives securing parts		N/A
P.4.1	General	No such construction.	_Ä/A
P.4.2	Tests	when the state	N/A
r. m	Conditioning, T _C (°C):	NUTER UNITE WALL WALL	11
\$ 5	Duration (weeks):	s at at at	d
Q 🖑	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	N/A
Q.1	Limited power sources	L at at at 5	N/A
Q.1.1	Requirements	Mater Mate Mar M	N/A
Ster.	a) Inherently limited output	at set set set	N/A
h. 1	b) Impedance limited output	Mr. Mr. Mr. m.	N/A
in the second	c) Regulating network limited output	let jet jet with	N/A
	d) Overcurrent protective device limited output	in the the the	N/A
MALIN	e) IC current limiter complying with G.9	et the ster when we	N/A
Q.1.2	Test method and compliance:	Mr. M. M.	N/A
WALTE	Current rating of overcurrent protective device (A)	water water water water	N/A
Q.2	Test for external circuits – paired conductor cable	et white white	N/A
et .5	Maximum output current (A):		N/A
-2m	Current limiting method:	it whit whit whe we	-24.
R	LIMITED SHORT CIRCUIT TEST	at the tat the st	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	let set set are	N/A
5. A	Overcurrent protective device for test:	mur mur mur m	
R.3	Test method	ret ret with miles	N/A
1 1	Cord/cable used for test:	in which we want	<i></i>
R.4	Compliance	et with alle white we	N/A
S 🔬	TESTS FOR RESISTANCE TO HEAT AND FIRE	AN AN	N/A
S.1	Flammability test for fire enclosures and fire ba where the steady state power does not exceed		N/A
NUTE N	Samples, material:	THE LIFE NUTER MUTE	NNº .
, t	Wall thickness (mm):	ne ne re co	
an whit	Conditioning (°C)	THE STREE MUTER WALLER A	1 M
t METE	Test flame according to IEC 60695-11-5 with conditions as set out	at the state of	N/A
1	- Material not consumed completely	Mr. Mr. M. M.	N/A
NITE .	- Material extinguishes within 30s	let the the star	N/A



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

	- No burning of layer or wrapping tissue	Stat A	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	_Ä/A
st.	Samples, material:	m to at at	And the second s
in m	Wall thickness (mm):	ALTE MALTE MALL WALL	$n_{\nu} - i$
A	Conditioning (°C):	a at at at	
S.3	Flammability test for the bottom of a fire enclose	sure of an an an	N/A
S.3.1	Mounting of samples	t at at at at	N/A
S.3.2	Test method and compliance	white white where white	N/A
INLIER N	Mounting of samples:	tet the state outer	JAN TE
	Wall thickness (mm):	White where white white	È.
S.4	Flammability classification of materials	THE STER STER WITE	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	et white white white wh	N/A
. let	Samples, material:	a at at a	4
me .	Wall thickness (mm):	white white whe whe	24
Set of	Conditioning (°C):	at the set	5
т	MECHANICAL STRENGTH TESTS	2 Jun - 24	Р
کې 1.1	General	the state states	S P
Т.2	Steady force test, 10 N:	(See appended table T.2)	Р
Т.3 🝼	Steady force test, 30 N:	t the with a set of the one	N/A
Т.4	Steady force test, 100 N:	Mr. Mr. m. r.	N/A
Т.5	Steady force test, 250 N:	(See appended table T.5)	N ^P P
Т.6	Enclosure impact test	(See appended table T.6)	Р
the she	Fall test	street intree water white	W ^{LC} Pa
et 1	Swing test	i se et et	P
T.7	Drop test:	(See appended table T.7)	Р
Т.8	Stress relief test:	(See appended table T.8)	P
Т.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	it get get all	N/A
у	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	tet the state when	N/A
× .58	Torque value (Nm):	No such antennas provided within the equipment.	N/A



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- me	M when the state	EN IEC 62368-1	Mrs Mr
Clause	Requirement – Test	Result – Remark	Verdict

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General		N/A
Life on	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2 🧹	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen	is mis mis mis m	N/A
ν	DETERMINATION OF ACCESSIBLE PARTS	at at the set of	N/A
V.1	Accessible parts of equipment	white white white white	N/A
V.1.1	General	at the state of	N/A
V.1.2	Surfaces and openings tested with jointed test probes	Mr M M M	N/A
V.1.3	Openings tested with straight unjointed test probes	the way was and	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	at left left lifet a	N/A
V.1.5	Slot openings tested with wedge probe	with some one of	N/A
V.1.6	Terminals tested with rigid test wire	the set of the state of the	N/A
V.2	Accessible part criterion	when all all and an	N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
m	Clearance:	The MALTE WALL WALL W	N/A
Y S	CONSTRUCTION REQUIREMENTS FOR OUTDO	OOR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	at let get ge	N/A
Y.3	Resistance to corrosion	white white white with	N/A
Y.3	Resistance to corrosion	at let set stat	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	inter when when we	N/A
Y.3.2	Test apparatus	white white whe wh	N/A
Y.3.3	Water - saturated sulphur dioxide atmosphere	at at set s	N/A
		The the the the	
Y.3.4	Test procedure:	Mr. In In	N/A
	Test procedure: Compliance	at at at the	N/A N/A
Y.3.5		MALE AND	
Y.3.5 Y.4	Compliance	AND AN	N/A
Y.3.5 Y.4 Y.4.1	Compliance Gaskets		N/A N/A
Y.3.5 Y.4 Y.4.1 Y.4.2	Compliance Gaskets General		N/A N/A N/A
Y.3.4 Y.3.5 Y.4 Y.4.1 Y.4.2 Y.4.3	Compliance Gaskets General Gasket tests		N/A N/A N/A N/A



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

Y.4.5	Oil resistance	311 12 1	N/A
Y.4.6	Securing means	where muse while while	N/A
Y.5	Protection of equipment within an outdoor enclo	sure	N/A
Y.5.1	General	NUTER INTE WALT WALT	N/A
Y.5.2	Protection from moisture	i it it it	N/A
Mr.	Relevant tests of IEC 60529 or Y.5.3:	re white white whe we	N/A
Y.5.3	Water spray test	L A A A S	N/A
Y.5.4	Protection from plants and vermin	water water war war	N/A
Y.5.5	Protection from excessive dust	at at the set	N/A
Y.5.5.1	General	white white white white	N/A
Y.5.5.2	IP5X equipment	at at the set	N/A
Y.5.5.3	IP6X equipment	the men men men a	N/A
Y.6	Mechanical strength of enclosures	at let stat state of	N/A
Y.6.1	General	m. m. m. w.	N/A
Y.6.2	Impact test:	at the star of	N/A



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Clause Re

Requirement – Test

Result – Remark

Verdict

(Audi	ATTACHMENT TO TEST R IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND N o/video, information and communication technology ed	ATIONAL DIFFERENCES	ents)
Difference	es according to EN IEC 62368-1:2020+A	11:2020	
	nt Form No EU_GD_IEC62368_1E	Tet white white white white	. mr
	nt Originator: UL(Demko) tachment 2021-02-04	WALTER WAITER WALTER WALTER	WALTE
	t © 2021 IEC System for Conformity Testing and Co Geneva, Switzerland. All rights reserved.	ertification of Electrical Equipme	ent
man	CENELEC COMMON MODIFICATIONS (EN)	LIFE WALTE WALL WALL WA	P
	Clause numbers in the cells that are shaded light gi IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368- Clauses, subclauses, notes, tables, figures and anr those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	YNNIFEK
et suntre	Add the following annexes: Annex ZA (normative)Normative references to intern corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	and white white white wh	EX WALL
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	Not such equipment	N/A

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20	EN IEC 62368-1	har when when when	In In
Clause	Requirement – Test	Result – Remark	Verdict
3.3.19.3	sound exposure, E A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	antifet annifet white	N/A
	Note 1 to entry: The SI unit is Pa ² s. $E = \int_{0}^{T} p(t)^{2} dt$	et whitet whitet white	Tek warek wa
3.3.19.4	sound exposure level, SEL	NUTER INCOMPTION	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	MUTEK WALTER WALTER W	LIEK WITEK
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	Tet anitet antitet anti	EX WE TEX W
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	A wontret wontret wontret	white white
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	WALTER WALTER WALTER	milt white
3.3.19.5	digital signal level relative to full scale, dBFS	At Strate	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	se vontre vontre vontre	* was let was
whitek 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.	while while while	NUTEX WALTER
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	ver and any an	N/A
er ste	Replace 10.6 of IEC 62368-1 with the following:	at get get get	ni ani
10.6.1.1	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment	Not such equipment	N/A
	 intended for use by an ordinary person, that: – is designed to allow the user to listen to audio or audiovisual content / material; and – uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and 	A ANTIN ANTIN ANTIN	wining white



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Mainet M	has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	and the set of the set	whitek
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	white white white white	set of
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	set white white white w	E UN
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	wint water water water wat	mar
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	uniter uniter whiter uniter	In LIEX W
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video	Tet whitet whitet whitet wh	eret where
	mode only. The requirements do not apply to: – professional equipment;	whitet whitet whitet white	MALTER
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	at a mutet watter	White w
	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music 	et which which which w	IE MALTE
	players: • long distance radio receiver (for example, a	white white with the	- whitek
	multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	white white white white	all ret an
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	Set multiplet while white	is at whit
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	white white white white	er wintret
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	Whitek whitek white white	N JEX WA
WALTER	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	et white white white	The would
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	a a la la	N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
AND THE AND	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	and		
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A	
10.6.2.1	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_{Aeq}, τ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	whitek whitek whitek wh	Frek whitek	
	For music where the average sound pressure (long term $LAeq, \tau$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	and white white	MAN SEX WAL	
aniter an tret antier antier	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term LAeq, 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.	and the set of the set	ALL AND	
10.6.2.2	 RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed 	AND MALER MALER MALER	N/A	

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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
whitek white	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 per 10.6.3.2.	antifet white white white	WITE WITE	
10.6.2.3	 RS2 limits (to be superseded, see 10.6.3.3) 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. 	ANTER		
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	white white white	N/A	
10.6.3	Classification of devices (new)	WALL WAY WILL WE	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	
10.6.3.2	 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 <i>L</i>Aeq,<i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized 	white white white white		



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
whitek whi	connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	antifet antifet antifet a	NATER NATER
10.6.3.3	RS2 limits (new)	20 2	∠ 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 where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be \leq 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be \leq 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	and and the an	SUNC SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE SUNCE
10.6.4	Requirements for maximum sound exposure		N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	whitet whitet whitet	white white
10.6.4.2	Protection of persons	10 - 10 - 10 - 1	N/A
	 Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. 	and an area and an area and an area an are	WIND CH WINTER
	given anough ale equipinent display daning deer	1 1 10 10	

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01	EN IEC 62368-1	- 1. 2. J.	
Clause	Requirement – Test	Result – Remark	Verdic
she		en unite unit alle	me m
	 – element 1a: the symbol , IEC 60417-6044 (2011-01) – element 2: "High sound pressure" or equivalent wording – element 3: "Hearing damage risk" or equivalent wording 	water water water water	Et NILTER
	 element 4: "Do not listen at high volume levels for long periods." or equivalent wording 	et while white white	we nu
	An equipment safeguard shall prevent exposure 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.	Whitek whitek whitek	white white tree white at a test
	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.	A WALL WALTER WALTER	NATER WATER
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	in the mint white	win let wi
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	when white white	NUTE MUT
Whitek	A skilled person shall not be unintentionally exposed to RS3.	and white white a	LIEK WITCH
0.6.5	Requirements for dose-based systems		N//
0.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.	A writer writer writer	whit at wh
	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.	water water water water	united united
	all and white white the start of	of the set	LITER INLI
	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	SUNTER	nuit ret vunit vunit

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
SULLER SU	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	antifet antifet antifet an	AND AND CALLER	
10.6.5.2	Dose-based warning and requirementsWhen 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 acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss.	et worthet worthet worthet	N/A	
	 Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. 	A WATER WATE		
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A	
10.6.6.1	Corded listening devices with analogue input With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic	Not such equipment	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict	
MILITER AN	output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	and and and and an	When when the second se	
10.6.6.2	Corded listening devices with digital input	1 st st s	N/A	
wherek wherek	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq, \tau$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	ANTICE ANTICE ANTICE	MALE MALER	
10.6.6.3	Cordless listening devices	i i it de	N/A	
WATER WATER WATER	In cordless mode, – with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and – respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and – with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the $LAeq, \tau$ acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	Antitek antitek antitek antitek antitek antitek set antitek antitek antitek antitek antitek antitek	WILL WILLES	
10.6.6.4	Measurement method	into and and a	N/A	
LIEX WALT	Measurements shall be made in accordance with EN 50332-2 as applicable.	thet thet output and	JEK WITEK WI	
3	Modification to the whole document		Р	



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			ENI	EC 62368-1			
Clause	Requiremer	it – Test	white	m. n.	Result – Rema	ark	Verdict
When we want the second	Delete all th	e "country" note	es in the refe	erence docur	nent according	to the following	P
	0.2.1	Note 1 and 2	1	Note 4 and 5	5 3.3.8.1	Note 2	1th
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	W. W. W
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	ciek whi
	5.4.2.3.2. Table 13	4 Note 2	5.4.2.5	Note 2	5.4.5.1	Note	er wint fer
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	WALTER
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	N-TEX M
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	Sex white
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	WALTER
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NUTER
	Y.4.5	Note					at .
NAL		-		105 1		the the the	in al
Ļ	Modificatio	n to Clause 1					Р
WALL		Owing note: use of certain subst oment is restricted v			whitek whi	et white whi	P
	Modificatio	n to 4.Z1					Р



- Con-10.

5

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. 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 shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	and		
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: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A	
7	Modification to 10.2.1		N/A	
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A	
8	Modification to 10.5.1		N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
40.5.4		white white whe		
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	whitet whitet whitet	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.	er worter worter worter	et and ex and	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	milet whitek whitek w	NUTER WALTER	
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	Tet whitek whitek whi	Ter Martin Martin	
	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 μ Sv/h taking account of the background level.		et whitet wh	
Tek	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the state of the		
9	Modification to G.7.1		N/A	
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	UNLIEK WALLEK WALLEK	N/A	
10	Modification to Bibliography		Р	



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2.	EN IEC 62368-1				
Clause	Requirement – Test			Result – Remark	Verdict
de	14 14 14	1 4	15 5	and with mer white white	- m
A	Add the following not	es for the standard	ds indicated	21 2	P
	IEC 60130-9	NOTE Harmonize	d oo EN 601'	0.00	- INLIE
	IEC 60269-2	NOTE Harmonize			24
	IEC 60309-1	NOTE Harmonize			1th
	IEC 60364			in HD 384/HD 60364 series.	N 3
	IEC 60601-2-4	NOTE Harmonize			
	IEC 60664-5	NOTE Harmonize			de .
	IEC 61032:1997			32:1998 (not modified).	n in
	IEC 61508-1	NOTE Harmonize			
	IEC 61558-2-1	NOTE Harmonize			9° . 5°
	IEC 61558-2-4	NOTE Harmonize			-m
	IEC 61558-2-6	NOTE Harmonize			A
	IEC 61643-1	NOTE Harmonize			. 5°
	IEC 61643-1	NOTE Harmonize			m
	IEC 61643-311	NOTE Harmonize			de
	IEC 61643-321	NOTE Harmonize			N CIN IS
	IEC 61643-321	NOTE Harmonize			$\hat{n} = 2_{n}$
	100 01043-331		u as LIN 0104	HU-UUT.	. t
	n. m. m.				a an
11	ADDITION OF ANNE	XES			Р
ZB	ANNEX ZB, SPECIA			EN)	P
4.1.15	Denmark, Finland, N		<u> </u>	Not directly connected to the	N/A
	To the end of the sub added: Class I pluggable ec connection to other ec if safety relies on con if surge suppressors a network terminals and marking stating that th connected to an earth The marking text in th be as follows: In Denmark: "Apparate stikkontakt med jord s stikproppens jord." In Finland: "Laite on varustettuun pistorasi In Norway: "Apparate stikkontakt" In Sweden: "Apparate	juipment type A in quipment or a netw nection to reliable are connected betw d accessible parts he equipment shal ned mains socket- ne applicable count tets stikprop skal t som giver forbindel liitettävä suojakosk aan" et må tilkoples jord	ntended for vork shall, earthing or ween the s, have a I be outlet. tries shall ilsluttes en Ise til kettimilla et	Sumaret untret untret untret	
in in	uttag"		li jordat	NUTER WALTER WALTE WALT	- source .
4.7.3	United Kingdom	men me	20 1	i it it it	_<∕ [↓] N/A
	To the end of the sub added:	clause the followin	ig is	Set waite white white w	n wi
	The torque test is per complying with BS 13 assessed to the relev see Annex G.4.2 of th	63, and the plug p ant clauses of BS	art shall be	WATER WATER WATER WATE	- vni



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
e Me	N N N N N N N N N	the state white white white	In the	
5.2.2.2	Denmark After the 2nd paragraph add the following:	No high touch current measured.	N/A	
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	and white white white	WALTER W	
5.4.11.1	Finland and Sweden	No such external circuits.	N/A	
and Annex G	To the end of the subclause the following is added:	et while while while y	unt unt	
	For separation of the telecommunication network from earth the following is applicable:	white white white wh	et with	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	and and and and and	JAN V	
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	the which which which	will want	
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	white white white	Tet wantet	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	and some stratest and the second seco	an ret ant	
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	whitet whitet whitet white	WALTER WA	
	and	at that when when	miller whit	
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 	white white white	TE MALTER	
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	minet monthet sommer som	* vnitek s	
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	t ret ret ret	NUN AL WAY	
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 	white white white wi	iet whitet	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
all's	We we we all it is	er alt and and	me me	
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Tet stret wiret a	NUTER WALTER	
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	and white white	ret whitek w	
ek watter	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	set united united united	wint fet wint	
5.5.2.1	Norway	the set set set	N/A	
	After the 3rd paragraph the following is added:	white white white	at at	
1112	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	milet while while w	et ret	
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A	
	To the end of the subclause the following is added:	at super super multi	White White	
	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.	white white philes	ALTER MALTER	
5.6.1	Denmark	No such equipment.	N/A	
NALTER -	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	See white white white	white white	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WALTER WALTER WALTER W	strice survey ~	
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment type A, the following is added: 	and an itek antifek and	N/A	
5.6.4.2.1	France	1 18 50 ST	N/A	
nitet with	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.	white white white	inet minet w	
5.6.5.1	To the second paragraph the following is added:	are while while while	N/A	
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	whitek whitek whitek	white white	



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	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
ster	N N L A A AT A	and white white white	m. m.		
5.6.8	Norway To the end of the subclause the following is added:	antifet wattet antifet	MALIEK P.		
ittek whi ek mitel	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.	INTER WAITER WAITER WA	iter witter w		
5.7.6	Denmark	m. m. m.	Р		
	To the end of the subclause the following is added:	whitek whitek whitek	white white		
Whitee wi	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.	whitet whitet whitet w	ALTER WALTER		
5.7.6.2	Denmark	alt of the offer of	P.		
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the	white white white	wintick sint		
	protective current exceed the limits of 3,5 mA . Norway and Sweden	Not such system.	N/A		
5.7.7.1	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.	at white white	WALTER WALTER		
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	WALTER WALTER WALTER WA	Inter and the an		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	et antifet untifet antif	yone water		
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	white white white	NITEX UNLITEX		
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator,	Tet whitet whitet whi	MALITE WALT		
	see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and	UNITEX WALTER WALTER	WALTER WALTE		



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
all .	W W Y Y Y	all white with white white	m	
WILLEK W	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	white much white white	* MALTER	
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	unet minet aniret auntret	NALITEK N	
	 "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk 	WATER WATER WALTER WATER	E- WALTE	
	isolator mellom apparatet og kabel-TV nettet." Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat	miret aniret antret aniret	WALTER.	
	vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta	Tet white white white	n Charlow	
white	skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	MALIE WALL WALL WA	t whe	
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		WALTER S	
D 0 4 and	required where there is a risk of personal injury.			
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:	Not directly connected to the mains	N/A	
	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	Whitek whitek whitek white	WALLEY W	
	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	et waitet waitet waitet wa	er une	
G.4.2	Denmark	Not directly connected to the	N/A	
INLIEK WIN	To the end of the subclause the following is added:	mains	UNLIEK	
	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.	Set watter watter watter of	n fet wi	
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	white white white white	t white	



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



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Clause	Requirement – Test	Deault Demail		
		Result – Remark	Verdict	
G.7.1	Ireland To the first paragraph the following is added:	white white aniset white	N/A	
LIEK WAL	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	and an and and and an area	Cet whit	
G.7.2	Ireland and United Kingdom To the first paragraph the following is added:	watter watter water water	N/A	
ret ar	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.	ont one of the	LIEK OF	
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	No CRT within the equipment.	N/A	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address:	and and and and and and	et water	
ZD	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I		P	



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20	the state of the s	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
all'	The second second	the star star star star	the stre

Type of flexible cord	Code de	signations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		,
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	нозр∨4-н
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-

14 C



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20.		EN IEC 62368-1	24 45
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classification	on of electrical er	ergy source	es		the set	P
Supply	Location (e.g.	Test conditions		Parame	ters		ES
Voltage	designation)		U (V)	l (mA)	Type ¹⁾	Additional Info ²⁾	Class
when we	The EUT is	Normal	<60Vdc	1 - At	SS	CDC	ES1
	designed to be supplied by Micro	Abnormal	nu Than	the start of	n	-20	WALTER
	USB port	Single fault – SC/OC	STRE ME	t	ret-	et white.	
4.20Vdc		Normal	<60Vdc	T.	SS	DC	ES1
	designed to be supplied by	Abnormal	Set - NICE	Matri - Mari	12 ¹²	m. m	10
	Internal Li-ion battery	Single fault – SC/OC		UNE JUE	IN TEX	INLIEK MILI	et whi

Supplementary information:

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

3) Test Conditions:

Normal –Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Working	g voltage measu	rement		N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
-m. m. m		t 5 ⁴ 5	er intre N	the water water
- set with with with	white wh	20 20	-	at at the set
Supplementary information:				
1 15 15 18	A. 19	Nº 12		i i it it i

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics						
Method			ISO 306 / B50	me m			
Object/ Par	t No./Material	Manufacturer/trademark	Thickness (mm)	T soften	ing (°C)		
-m -m		at the state of	white where we	- m-	20. 1		
Supplemen	tary information:						

5	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					NUTE WALT WAT	. m	N/A
~	Allowed imp	pression diame	ter (mm)	:	≤ 2 m	m, st se	کی خ	
14 million - 1	Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Imp diame	ression eter (mm)

01.



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EN IEC 62368-1								
Clause	Requirement – Test	Result – Remark	Verdict					
m	M. W. L. A. A.	- The suffer with south all	we we					
A	the set - set with mile	20°	× - #					

Supplementary information:

5.4.2, 5.4.3 TABLE: Minimum	Clearan	ces/Cre	epage o	listance			AL .	N/A
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
- INTE MALL WALL WALL	- 24	2m	,;		4	58 - - 2	et Juie	. Mr. Car

Supplementary information:

1) Only for frequency above 30 kHz

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

5.4.4.2	TABLE: Minimun	ABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V) Insulation*		Required DTI (mm)	Measured DTI (mm)				
//-	att att att	at onlife white white	n m	· - *	t				
Supplemen	ntary information:								

*See also sub-clause 5.4.4.9

11° - 54° - 1			19		er ar	N 22
5.4.4.9 TABLE: Solid in	nsulation at	frequencies	>30 kHz	4	t st	N/A
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
- intite water water w	- m		7 . S	- Jet Je	- NITER IN	Sternorth,
Supplementary information:						
				de de	105 4	

5.4.9	TABLE: Electric strength tests	at the tit	The wifet mit	N/A
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	it's water water water water	the state of	t with with	INLIER WINLIE V
- ,, ,	et the with a state white	2 min men men	- 11 11	at u t i
Basic/suppl	ementary:	Tet stift white	WALTER WALT WAT	me m
Tet stat	MUTER MUTER MULT WAT Y		- - 1 1 1	- Junt mur
Reinforced:	at let let wiret in	LIEN WALTE WALT W	up and an	In the
- white y	mit whit whit we	- it it is	AL INLIER MUTER	NUTE VINIT
Routine Tes	sts:	mer mer m	st At	it it
the m	WIT WIT WIT THE	-tret miret white	- water water w	r when w

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20.		EN IEC 62368-1		
Clause	Requirement – Test	white when we	Result – Remark	Verdict

Supplementary information:

5.5.2.2	TABLE:	Stored discharge of	on capacitors	NUTER WALTER	white white	N/A
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class
NUTER -	LITE WAY	st wat - wat	Normal	t to s	at . 5 at .	UP TUP
	let all	A MALTER MALTER W	Single fault: SC/ OC	white white		et stet a

Supplementary information:

X-capacitors installed for testing are:

[] bleeding resistor rating:

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

5.6.6 TABLE: Resistance of protective conductors and terminations							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
in and			All At	Inn The main	in the main		
Supplemen	itary information:						
in the	n	4	all all all	inter white	mer mer		

5.7.4	TABL	TABLE: Unearthed accessible parts					N/A
Location		Operating and Supply fault conditions Voltage (V)		F	Parameters		ES class
			Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
L/N to secondary		Normal	me - m		1 1t-	J.	5 ^{6*}
terminals		Abnormal: overload	LIEK - WILLER	mile Junit.	unit +n	n n	
white white		Single fault: SC/OC	et whitek w	LIEK WALLEY	an with a		<u></u>
Supplemen	ntary info	ormation:		·			
SC= short	circuit; C	DC= open circuit	inter whi	me me	24 24		A

5.7.5	.7.5 TABLE: Earthed accessible conductive part				
Supply vo	Itage (V)	The second second	st at a	at the s	_
Phase(s)		[] Single Phase; [] Three	Phase: [] Delta	[]Wye	
Power Dis	stribution System	[]TN []TT []IT		t at de	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commer	nt
J. J.	in the the the	A the state	55 - 55	MITE MAIL	ser 3



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m			
Clause	Requirement – Test	Result – Remark	Verdict
No	All I have a set	THE THE ALTE ALTE ALTE AND	me me

Metal enclosure	neu	itral open	0.024	ES1	15
Supplementary Information:					
	15 15	5° 10° 1	n n	20. 1	

5.8	TABLE	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
- 500	JEN 1	LIE JULIE	mun there we			<i>.</i> #	18 - 18
Suppleme	entary infor	mation:					

6.2.2	TABLE: Power source	e circuit classif	fications			P .
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Cell	Output pin + to -	2.26	8.0	18.40	35S 3	PS2
Battery	Output pin + to -	2.92	2.70	7.90	3S	PS1
Battery boar	d Signal fault (U2 pin 2-1 SC)	0*	0*	0*	3S	PS1
Battery boar	d Signal fault (U1 pin 1-6 SC)	0*	0*	0*	35	PS1
Battery boar	d Signal fault (NTC R2 SC)	0*	0*	0*	3S	PS1

Supplementary information:

F

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: D	Determination of Arcing PIS	201. 24		N/A
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
Et MIE WALT WA		A - A .	et at are	NUTE- NUTE
Supplementary informa	tion:			
alle alle and	were we	1 1 1	t at at	Ster Str

6.2.3.2 TABLE: Dete			
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	THE SUPER MUTER MOUTH AND	JEK WALTE WALTE WALT	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

0			/
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L. M.	m m	EN IEC 62368-1	we we we
Clause	Requirement – Test	Result – Remark	Verdict

classification.

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

8.5.5 TABLE: High pro	essure lamp	the state of	the state of	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- it it it it	- NUTER WALTER WAY	- me m		
Supplementary information:				

9.6 T	TABLI	E: Temper	Temperature measurements for wireless power transmitters						
Supply voltag	e (V).				.et	10 - S	at all the	- MUTER I	
Max. transmit	powe	er of transn	nitter (W)		me m	- m		×	
			eiver and contact				ceiver and at ce of 5 mm		
Foreign obje	ects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Set NITE	n l			- - -		-		- 364	NITE MIT
Supplementar	ry info	rmation:							
Supplemental			- wh	~		A - 10	t St	Jet .	UTER MIT

5.4.1.4, TABLE: Temperature measurements 9.3, B.1.5, B.2.6								
Supply volta	age (V):	Condition 1: (5Vdc):	Condition 2 (4.2Vdc):	Condition 3 (5Vdc):	murer	_		
Ambient ten	nperature during test <i>T</i> _{amb} (°C):	See below	See below	See below	State -			
Maximum m	neasured temperature <i>T</i> of part/at:		T (°C)		Allowed T _{max} (°C)		
DC input ter	minal	43.8	44.1	44.4	-24	70		
PCB near U	2 July Martin Martin	52.6	53.7	55.0		130		
PCB near U	1 total	50.6	51.6	52.7	2h	130		
PCB near U	3	48.7	49.5	50.4	T. Start	ري 130 _ک		
Battery body	y i i i it i	44.6	45.1	45.5	·n	For ref.		
Battery lead	wire	43.2	43.6	43.8	Set-	80		
Plastic enclo	osure inside near U2	45.2	45.7	46.2		For ref.		
Plastic enclo	osure inside near battery	43.6	44.0	44.3	#	For ref.		



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Ser.		EN IEC 62368	3-1			
Clause	Requirement – Test	mur m	Result	– Remark	de la	Verdict
- m-	11 12 A 10		All and		m. m	
Ambient		40.0	40.0	40.0		1 A

Accessible parts								
Plastic enclosure outside	27.6	27.9		28.7	,	77*		
Plastic enclosure outside	27.1	27.3		27.8	LIL WALL	√ ^{77*} √ ⁰		
Button	27.2	27.6	25	28.1	*	77*		
Ambient	4	1 1	25.0	25.0	Ser Star	25.0	Junt	and the
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	٦	Г (°С)	Allowed T _{max} (°C)	Insulation class
- i i it	St - 50	. The	wet -	1 20		$\overline{z_{\mu}}$		4 - *

Supplementary information:

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

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 35°C.

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1. Note 3:

Condition 1: Only charge with internal empty battery

Condition 2: Only discharge with internal fully battery.

Condition 3: Charge while working mode with internal empty battery

Iz I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	l fuse (A)	Condition/status		
: Only charg	e with interr	nal empty	battery	r 1	1 24	and at at a		
- 0.267		1.34	10-	¢	1977 - ₁₉ 19	Battery charge current: 0.20A		
: Only discha	arge with in	ternal full	y battery	24		A A A A SA		
- 0.24	LIFEK WAL	1.01	at	whitek.	WITCH	BT mode: 1/8 of max. available output power with 1KHz signal input. Speaker: 0.61V*1 Battery discharge current: 0.24A		
: Charge wh	ile working	mode wit	h internal	empty b	attery	LIER MUTE WALL WALL WALL		
- 0.294	white wh	1.47	nt vi	- white	- un which	BT mode: 1/8 of max. available output power with 1KHz signal input. Speaker: 0.61V*1 Battery charge current: 0.05A		
tary informat	tion:							
	: Only charg - 0.267 : Only discha - 0.24 : Charge wh - 0.294	(A) : Only charge with intern - 0.267 : Only discharge with intern - 0.24 : Charge while working	(A) : Only charge with internal empty 0.267 : Only discharge with internal full 0.24 1.01 : Charge while working mode wit 0.294 1.47	(A) (W) : Only charge with internal empty battery 0.267 1.34 : Only discharge with internal fully battery 0.24 1.01 : Charge while working mode with internal 0.294 1.47	(A) (W) No : Only charge with internal empty battery 0.267 1.34 : Only discharge with internal fully battery 1.01 : Only discharge with internal fully battery 1.01 : Only discharge with internal fully battery 1.01 : Charge while working mode with internal empty battery 1.47 : Charge while working mode with internal empty battery 1.47	(A) (W) No (A) (A) (W) No (A) Conly charge with internal empty battery 0.267 1.34 : Only discharge with internal fully battery : Only discharge with internal fully battery 1.01 : Only discharge with internal fully battery 1.01 : Charge while working mode with internal empty battery 1.47 : O.294 1.47		

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Clause	Requirement -	Test	with	su.	R	Result – Rem	ark	Verdict
in the	h- 10 -	4	de-	500	J.F.	in The section	in white white	- m
B.3, B.4	TABLE: Abnor	mal operating	g and fau	It condit	ion tes	sts	1. de 18	. P /-
Ambient tem	nperature T _{amb} (°C)			:	See below	WALL WALL	
Power sourc	ce for EUT: Man	ufacturer, moo	del/type, o	outputrati	ng:		at at	
Component No.	t Condition	Supply voltage (V)	Test time	Fuse no.	Fuse	e current (A)	Observa	ation
Condition 1:	Only charge wi	th internal emp	pty batter	у 🦽	.56	- NUTER OF	LIER WALL W	in me
U2 pin 4-5	S-C	5Vdc ¹⁾	7hrs	NITEX W	Let .	NALIFEK MAL	Unit shut down immediately. No no hazard. Rec Battery cell cha current(A): 0.20	overable. rge
U2 pin 8-5	S-C	5Vdc ¹⁾	7hrs	WALTER WALTER	WALTER WALTER		Unit shut down immediately. No damage no hazard. Recoverable Battery cell charge current(A): 0.20→0.001	
L1	S-C	5Vdc ¹⁾	7hrs	ountite v street on	ALLER WALTER WALTE		Unit normally working. I damage, no hazard. Recoverable. Battery cell charge current(A): 0.20	
R2	S-C	5Vdc ¹⁾	7hrs	et - ur	White white w		Unit normally we damage, no haz Recoverable. Battery cell cha current(A): 0.20	zard. rge
C2	S-C	5Vdc ¹⁾	7hrs	INLINE WAL	EX WALTEX WALTER		Unit shut down immediately. No no hazard. Rece Battery cell cha current(A): 0.20	overable. rge
NTC	0-C	5Vdc ¹⁾	7hrs	whitek	whitek whitek wh		Unit shut down immediately. Re times No damag hazard. Recove Battery cell cha current(A): 0.20	ge, no rable. rge
Condition 2:	Only discharge	with internal f	ully batte	ry	LIE.	INLIE WALL	when when	-m
U1 pin 6-8	S-C	4.20 Vdc ²⁾	7hrs	EK WALT	A SUPER SUPER		Unit shut down immediately. No no hazard. Reco Battery discharg current(A): 0.24	overable. ge
U1 pin 6-5	S-C	4.20Vdc ²⁾	7hrs	W <u>r</u> Writek	NUTER	watter wat	Unit shut down immediately. No no hazard. Reco Battery dischars current(A): 0.24	overable. ge



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Clause	Requirement – Test	Result – Remark	Verdict			
1	M. D. A.		in all			

C3	S-C	4.20Vdc ²⁾	7hrs	EK JUN	et would would	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 0.24→0
U3 pin 2-16	S-C	4.20Vdc ²⁾	7hrs	WALTER	minet whilet	Unit shut down immediately. No damage, no hazard. Recoverable. Battery discharge current(A): 0.24→0
R4	S-C	4.20Vdc ²⁾	10mins	NITE N	at white white	Unit normally working. No damage, no hazard. Recoverable. Battery discharge current(A): 0.24
Speaker	100% of max. available output power	4.2Vdc ²⁾	1hrs 36mins	unitek unitek	Battery body : 30.2 °C; Plastic enclosure outside near U2: 27.9 °C; Plastic enclosure outside near Battery: 27.3 °C; Button: 27.6 °C Ambient: 25.0 °C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Speaker: 1.72*1 Battery discharge current(A): 0.25
Speaker	S-C	4.2Vdc ²⁾	10mins	- CL	antife write w	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery discharge current(A): 0.24→0
Condition 3: C	harge while w	orking mode	with intern	al empty	battery	METER MATE MALL W
Speaker	100% of max. available output power	5.0Vdc ¹⁾	2hrs 04mins	- John Saniser Saniser Saniser	Battery body : 31.4 °C; Plastic enclosure outside near U2: 29.1 °C; Plastic enclosure outside near Battery: 28.1 °C; Button: 28.5 °C Ambient: 25.0 °C	Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Speaker: 1.72V*1 Battery charge current(A): 0.25
Speaker	S-C	5.0Vdc ¹⁾	10mins	et	whitek whitek	Speaker has no output. No damage, no hazard. Recoverable. No higher temperature rise exceeding its limit occurred. Battery charge 0.05→0
Supplementar	y information:					

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1 20.		EN IEC 62368-1	24 24
Clause	Requirement – Test	Result – Remark	Verdict

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-I: 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	uits f	or batterie	es provid	ed v	vithin	the equ	uipment	Р
Is it possible	to install the	battery in a re	evers	e polarity	position?	:	et	Set	JULE MULE	_
					C	Charg	ging			
Equipment S	Specification		Vo	ltage (V)					Current (A)	
		t still of	5 ^{er}	5Vdc	no n		20	24	a the	15 13
		Battery specification								
		Non-recharge	eable	batteries			Rec	hargeat	ole batteries	
		Discharging		ntentional	(Char	ging		Discharging	Reverse
Manufact	urer/type	current (A)		harging Irrent (A)	Voltage	(V)	Current (A)		current (A)	charging current (A)
Shenzhen E Technology 6020	y Co., Ltd /		54	SINUTE SINUTE	3.7	1 1		0.3	0.3	UNLIEX WAL
Note: The tes	sts of M.3.2 a	are applicable of	only	when abov	e appropr	iate	data is	s not ava	ailable.	
Specified bat	ttery tempera	ature (°C)				<u>æ.</u> :	. SI PA	MUTE	10-45	~
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltage (V)	e Obs	ervation
U2 pin 4-5	SC	Charge	wni trek	7h	whiter w	0.	001	4.20	Unit shutd immediate Recoverat damaged,	ly.
U2 pin 8-5	SC	Charge	it .	7h	1.164	0	.20	4.20	Unit shutd immediate Recoverat damaged,	ly.
L1	SC	Charge	. m	7h	-14) 	0	.20	4.20		ng normally, e, no hazard
R2	SC	Charge	WILL	7h	wet .	0	.20 🖋	4.20		ng normally, e, no hazard
U1 pin 6-8	SC	Discharge	erek t	7h	Intite with	0.	001	4.20	Unit shutd immediate Recoverat damaged,	ly. 🗧 🏑
U1 pin 6-5	SC	Discharge	, <i>s</i>	7h	+	0.	001	4.20	Unit shutd	



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Clause	Requirement – Test	Result – Remark	Verdict

whet and	et Multer	UNLIER WALTER W	when we	- MAR	1 12	and the	Recoverable. No damaged, no hazard.
U3 pin 2-16	SC	Discharge	7h	WALTER .	0.001	4.20	Unit shutdown immediately. Recoverable. No damaged, no hazard.
R4	SC	Discharge	7h	STREE IN	0.24	4.20	Unit working normally, no damage, 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		eguards for	equipment c	onta	aining a se	econdary lithium	J. P.
Maximum specified charging voltage (V) 4.2								
Maximum specified charging current (A): 0.3								
Highest specified charging temperature (°C): 50						20		
Lowest sp	ecified ch	arging temperat	ure (°C)		<u>*-</u> :	0	let mile white	
Battery manufacturer/type		Operating		Measuremen	ıt		Observat	on
		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)			
Lowest spe	ecified cha	arging temperati	ure: 0°C				att the saliter and	LIN MAL
Shenzhen Bai Jia Ying Technology Co., Ltd / 602030		Normal	4.20	0.18	ter	Battery mperature: 0.1°C	The battery charging curr decreases	
		Abnormal– 100% of max. available output power under condition 3	4.20	0.23	ter	Battery mperature: 0.1°C	The battery chargi decreases	ng current
whitek a	miret w	Single fault – (R2 SC under condition 1)	4.20	0.18	ter	Battery mperature: 0.1°C	The battery charging curren decreases	
Highest sp	ecified ch	arging temperat	ure: 50°C	Star of the		it h	t set set	NUTER OF
Shenzhen Ying Techi Co., Ltd / 6	nology	Normal	4.20	0.001	ter	Battery nperature: 46.8°C	The battery charging cir stop charging	
Watter w	WALTER WA	Abnormal– 100% of max. available output power under	4.20	0.001	ter	Battery mperature: 46.8°C	The battery charging circuit stop charging	



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
	and the star is a	the start of the	IN ALL		

A At .	condition 3	JE NIE	ne m	n n	i i st st
MALTER MALTER WALTE	Single fault – (R2 SC under condition 1)	4.20	0.001	Battery temperature: 46.8°C	The battery charging circuit stop 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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A									
Output	Condition				(A)	S (VA)				
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit			
in me	Normal	7	5S 5	INITE N	8.0	mr.	100			
t 50	Single fault – SC/ OC	mer m	5S		L 8 1	÷	< ⁶ 100 ⁶			

SC = short circuit, OC = open

Observation
No reduction the clearances and creepage distances
Enclosure remained intact, no crack opening developed
Enclosure remained intact, no crack opening developed
Enclosure remained intact, no crack opening developed

Т.6, Т.9 Т	ABLE: Impa	ct test	MUTER	P P
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Plastics*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.



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Result – Remark	Verdict				
	11 - 12 - 20 - 2.				

Enclosure Bottom	Plastics*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementar	y information:			
*Test was port	formed on pro	duct with each sou	urco listod ir	table 4.1.2

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

Observation Enclosure remained intact, no crack/ opening developed. No bazards		
Enclosure remained intact, no crack/ openin developed. No hazards.		
Enclosure remained intact, no crack/ opening developed. No hazards.		
Enclosure remained intact, no crack/ opening developed. No hazards.		
E		

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

Т.8	TABLE: Stres	s relief test			A WE WE ALL ALL ALL A	
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.	
Supplementa	ry information:				·	

TABLE: Altern	ative method for determining	g minimum clearances	s distances N/A	
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)	
white white white	N N A A	- Jet - Jet and	antite with which	
Supplementary information:				



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Clause	Requirement – Test	white white the	Result – Remark	1	Verdict			

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹ Tested with appliance	
Speaker	Interchangeable	Interchangeabl e	Max. 10W, 3ohm, 1Pcs	IEC/EN IEC 62368-1		
РСВ	Shenzhen Fusheng Electronics Co Ltd	CB-D, CB-M, CB-B	V-0, 130°C	UL 796	UL E308301	
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL	
Plastic enclosure Formosa Chemicals & Fibre Corp Plastics Div		AC310(+)	V-0, min. thickness: 1.0mm, 60°C	UL94	UL E162823	
nternal wire Interchangeable		Interchangeabl e	Min. 30V, min. 80°C, Min. 30AWG, VW-1	UL 758	UL	
Battery lead Interchangeable wire		Interchangeabl e	Min. 200V, min. 200°C, Min. 28AWG, VW-1	UL 758	UL ST	
Internal Li- ion battery	Shenzhen Bai Jia Ying Technology Co., Ltd	602030	3.7V, 300mAh, 1.11Wh	IEC 62133-2: 2017	Approved by ANCI, report no.: SA1908221L 01001	

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



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Photo Documentation

Reference No.: WTF22D08168404Y

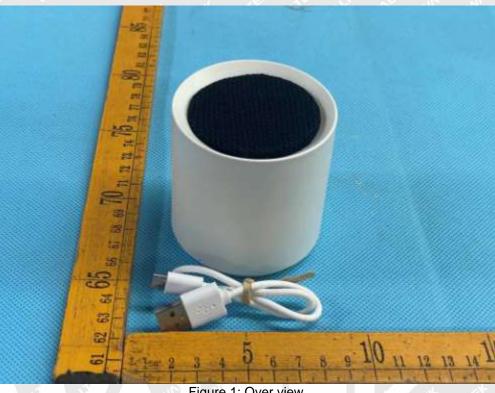


Figure 1: Over view



Figure 2: Side view



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Figure 4: Internal view



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Reference No.: WTF22D08168404Y



Figure 5: Terminal view



Figure 6: Internal view



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Reference No.: WTF22D08168404Y



Figure 7: Internal view



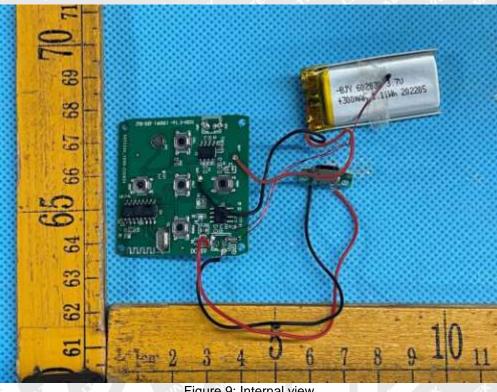
Figure 8: Internal view

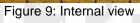


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Photo Documentation

Reference No.: WTF22D08168404Y





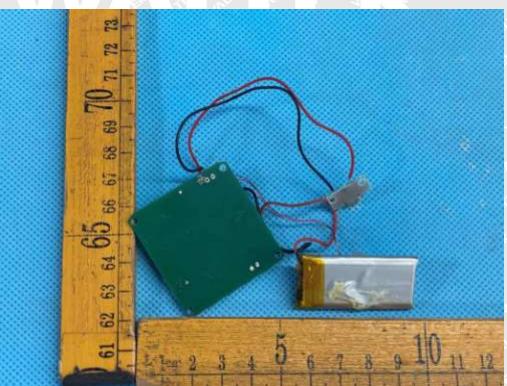


Figure 10: Internal view

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