



# **TEST REPORT**

Reference No.	:	WTF22D07139658R1Y
Applicant	:mi	Mid Ocean Brands B.V.
Address	: INITE	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	and and a	117237
Address	5	and the work with the state state state
Product	į.	Magnetic wireless charger with car mount
Model(s)	14	MO6571
Total pages	: ,	68 + 4 pages of photo documentation
Standards	MUL	EN IEC 62368-1: 2020+A11: 2020
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample		2022-09-09
Date of Test	÷ .,	2022-09-09 to 2022-09-28
Date of Issue		2022-09-28
Test Result	5	Pass A and at a state with a state

Remarks:

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

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

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1

Reference No.:WTF22D07139658R1Y

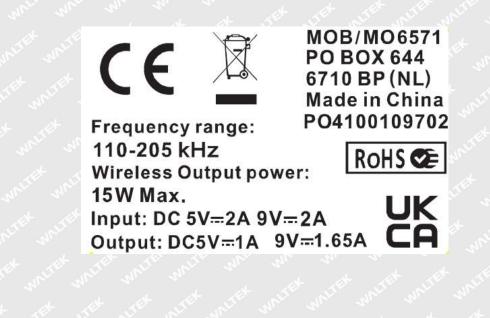
Page 2 of 68

Test item description	Magnetic wireless charger with car mount		
Trademark	МОВ		
Model and/or type reference:	MO6571		
Rating(s):	Input: DC 5V/2A, 9V/2A (Supplied by via Type C port) ; Output : DC 5V/1A, 9V1.65A Wireless Output Power: 15W Max.		
Remark:	st st	street with white white white white white	
Whether parts of tests for the product h	ave been sub	contracted to other labs:	
🗌 Yes 🛛 🖾 No			
If Yes, list the related test items and lat	o information:		
Test items:			
Lab information:	- aller all	2 when when we we are	
Summary of testing:	201	the set set set when a set with a	
Tests performed (name of test and te	est clause):	Testing location:	
- EN IEC 62368-1: 2020+A11: 2020		No. 77, Houjie Section, Guantai Road,	
The submitted samples were found to on the requirements of above specification		Houjie Town, Dongguan City, Guangdong, China	
	<u></u>		
Summary of compliance with Nation	al Difference	s (List of countries addressed):	
Summary of compliance with Nation		The water water water water water water	
Summary of compliance with Nation EU Group Differences	of EN IEC 62	368-1:2020+A11:2020.	
Summary of compliance with Nation EU Group Differences The product fulfils the requirements Use of uncertainty of measurement f No decision rule is specified by th applicable limit according to the specified	of EN IEC 62: f <b>or decisions</b> e IEC standa cification in th	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> rd, when comparing the measurement result with the at standard. The decisions on conformity are made	
Summary of compliance with Nation EU Group Differences The product fulfils the requirements Use of uncertainty of measurement f No decision rule is specified by th applicable limit according to the spec without applying the measurement ur "accuracy method").	of EN IEC 623 for decisions e IEC standa dification in th the certainty ("sir	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> rd, when comparing the measurement result with th at standard. The decisions on conformity are mad nple acceptance" decision rule, previously known a	
Summary of compliance with Nation EU Group Differences The product fulfils the requirements Use of uncertainty of measurement of No decision rule is specified by th applicable limit according to the speci without applying the measurement ur "accuracy method").	of EN IEC 623 for decisions e IEC standa dification in th certainty ("sir	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> rd, when comparing the measurement result with th at standard. The decisions on conformity are mad nple acceptance" decision rule, previously known a	
Summary of compliance with Nation EU Group Differences The product fulfils the requirements Use of uncertainty of measurement f No decision rule is specified by th applicable limit according to the spec without applying the measurement ur "accuracy method").	of EN IEC 623 for decisions e IEC standa dification in the certainty ("sir ele when require rement: calculated by	368-1:2020+A11:2020.	
Summary of compliance with Nation EU Group Differences The product fulfils the requirements Use of uncertainty of measurement of No decision rule is specified by the applicable limit according to the speci- without applying the measurement ur 'accuracy method"). Other: (to be specified, for examp requirements apply) Information on uncertainty of measurement are OD-5014 for test equipment and applic IEC Guide 115 provides guidance on the decision rule when reporting test	of EN IEC 62: for decisions e IEC standa cification in the certainty ("sir ele when require the when require calculated by calculated by cation of test me the applicatio the sults with	368-1:2020+A11:2020. <b>on conformity (decision rule) :</b> rd, when comparing the measurement result with the at standard. The decisions on conformity are made nple acceptance" decision rule, previously known a red by the standard or client, or if national accreditation the laboratory based on application of criteria given b	

Page 3 of 68



Copy of marking plate:



#### Remark:

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

Reference No.:WTF22D07139658R1Y

Page 4 of 68

TEST ITEM PARTICULARS:	ne war war we we to the
Product group	end productbuilt-in component
Classification of use by:	<ul> <li>☑ Ordinary person</li> <li>☑ Instructed person</li> <li>☑ Skilled person</li> </ul>
Supply Connection:	□ AC mains □ DC mains □ not mains connected: □ ES1 □ ES2 □ ES3
Supply % Tolerance:	□ +10%/-10% □ +20%/-15% □+%/% ⊠ None
Supply Connection – Type:	<ul> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> <li>pluggable equipment type B -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector in other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	UK: 13 A; Others: 16 A; Location: Duilding 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 □ Not classified □
Access location:	N/A ☐ restricted access area ☐ outdoor location ☐
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	45°C 🔲 Outdoor: minimum°C
IP protection class	
Power Systems:	□ TN □ TT □ ITV <sub>L-L</sub> ⊠ 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)	⊠0.04 kg

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Page 5 of 68

POSSIBLE TEST CASE VERDICTS:	and white white white white white and the set
- 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:	with which we set that
Date of receipt of test item	: 2022-09-09
Date (s) of performance of tests	: 2022-09-09 to 2022-09-28
GENERAL REMARKS:	- SEX aller miles while while when when

"(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 🗌 comma / 🖂 point is used as the decimal separator.

### **GENERAL PRODUCT INFORMATION:**

### **Product Description**

- 1. The EUT covered by this report is a Wireless charger with carmount used as Wireless Charger apparatus. It is supplied by external power supply or via Type C port supply.
- 2. The manufacturer specified maximum ambient temperature is 45°C. The specified altitude is up to and including 5000 m above sea level.

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C

3. The product shall be powered by a suitable rated and certified DC power supply or AC/DC Adapter which was classified as ES1/PS2 comply with EN IEC 626368-1.

### **Model Differences**

N/A

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

Report No.	Modification Description	Comment
Ref. No. WTF22D07139658Y,	Original test report.	and - what what what when
dated 2022-08-26.	set out whit whit w	1. The second second
Ref. No. WTF22D07139658R1Y,	Update test data.	All test.
2022-09-28. (updated)	the set set is	ster ment with with with a



Reference No.:WTF22D07139658R1Y

Page 6 of 68

Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part Safeguards			
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A N	N/A
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire	· · · · · · · · · · · · · · · · · · ·		
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S
PS2	PCB	See 6.3	V-1 or better	N/A
7	Injury caused by hazardous	substances		
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		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



2

# Reference No.:WTF22D07139658R1Y Page 7 of 68

	ENERGY SOURCE DIAGRAM				
Indicate which en	nergy sources are inc	cluded in the	e energy sou	rce diagram. Insert diagra	am below
at at	THE SHEET IN	JER MUTE	with a	the star we a	that at
	🔬 🖄 ES	🛛 PS	🖂 MS		
	See details in OVE	RVIEW OF I	ENERGY S	OURCES AND SAFEGUA	RDS



### Reference No.:WTF22D07139658R1Y Page 8 of 68

IEC / EN 62368-1

Clause	Requirement – Test	Result – Remark Verdict	Set	

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	SUC 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	ME P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	N <sup>III</sup> 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	, sí Р
4.4.3.1	General	5 July 30	Р
4.4.3.2	Steady force tests	(See Annex T.2and T.4)	ST Pr
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	st with with with and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
in me	Glass impact test (1J)	stift atten white white	N/A
t st	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	P
4.4.3.9	Air comprising a safeguard	a at at a	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	A A A A A S	<u>وم</u>
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P

5



Reference No.:WTF22D07139658R1Y	Page 9 of 68	20.

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Pet	
Set 5	No harm by explosion during single fault conditions	(See Clause B.4)	Р	
4.6	Fixing of conductors	See below	P	
et sie	Fix conductors not to defeat a safeguard	at let let set	JET P	
24	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)	tet stet stet out	N/A	
4.8	Equipment containing coin/button cell batteries	Mr. M. M. M.	N/A	
4.8.1	General	No coin/button cell batteries used.	N/A	
4.8.2	Instructional safeguard	at let set set	N/A	
4.8.3	Battery compartment door/cover construction	me me me	N/A	
MALTER 1	Open torque test	Tet with nuter out	N/A	
4.8.4.2	Stress relief test	WAT THE THE AT	N/A	
4.8.4.3	Battery replacement test	set outer white	N/A	
4.8.4.4	Drop test		N/A	
4.8.4.5	Impact test	The Althe Mathemanute	N/A	
4.8.4.6	Crush test	in the st	N/A	
4.8.5	Compliance	t muser muse won't with	N/A	
jet-	30N force test with test probe	the state of	N/A	
mr. m	20N force test with test hook	INTER WHITE WALL WALL	N/A	
4.9	Likelihood of fire or shock due to entry of cond	uctive object	P	
4.10	Component requirements	NUTE WALL WALL WALL	N/A	
4.10.1	Disconnect Device	1 at at at	N/A	
4.10.2	Switches and relays	I WALL WALL WALL W	N/A	

5	ELECTRICALLY-CAUSED INJURY           2         Classification and limits of electrical energy sources		- √ <sup>™</sup> P - ≤
5.2			Classification and limits of electrical energy sources
5.2.2 👋	ES1, ES2 and ES3 limits	with mitter white white white	10 B 10
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	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



Page 10 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.2.2.7		En mitt white white w	N/A	
	Audio signals	the set set of	P	
5.3	Protection against electrical energy sources	mouth vinte and with		
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	aret aret waret waret	WILTEP	
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	n with the state	N/A	
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	Stat white white white a	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	Р	
mer an	Accessibility to outdoor equipment bare parts	white white white white	_s∿ <sup>™</sup> N/A	
5.3.2.2	Contact requirements	on the state	N/A	
in more	Test with test probe from Annex V	LIER WALTE WALT WAL	s —	
5.3.2.2 a)	Air gap – electric strength test potential (V)	a at at at	N/A	
5.3.2.2 b)	Air gap – distance (mm)	white white when 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	A 11 1	S P	
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A	
5.4.1.3	Material is non-hygroscopic	and the state	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 white wh	N/A	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	stret intret antiet water	N/A	
5.4.1.5.3	Thermal cycling test	and at the	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	NUTER INTERNATION MADE	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	a stat stat	_<∕ <sup>↓−</sup> N/A	
5.4.1.8	Determination of working voltage	it while while when w	N/A	
5.4.1.9	Insulating surfaces	. A at at i	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	wints white wint wi	N/A	
5.4.1.10.2	Vicat test	INTER WALTE WALT WALT	N/A	
5.4.1.10.3	Ball pressure test	s it it it	N/A	
5.4.2	Clearances	LIE MALL MALL WALL	N/A	
5.4.2.1	General requirements	s at at at	N/A	
NV .	Clearances in circuits connected to AC Mains, Alternative method	with white white white	N/A	
5.4.2.2	Procedure 1 for determining clearance	stree muse white white	N/A	



### Reference No.:WTF22D07139658R1Y

Page 11 of 68

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

Sale 1	W W STATES	white white white where white	
dt.	Temporary overvoltage		
5.4.2.3	Procedure 2 for determining clearance	N/A	
5.4.2.3.2.2	a.c. mains transient voltage	1 1 1 1 -	
5.4.2.3.2.3	d.c. mains transient voltage	Santa white white -	
5.4.2.3.2.4	External circuit transient voltage	at at set -	
5.4.2.3.2.5	Transient voltage determined by measurement	white white where we -	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	N/A	~
5.4.2.5	Multiplication factors for clearances and test voltages	N/A	2
5.4.2.6	Clearance measurement	N/A	
5.4.3	Creepage distances	N/A	s.
5.4.3.1	General	N/A	~
5.4.3.3	Material group	- North works when -	
5.4.3.4	Creepage distances measurement	N/A	2
5.4.4	Solid insulation	N/A	
5.4.4.1	General requirements	N/A	
5.4.4.2	Minimum distance through insulation	N/A	~
5.4.4.3	Insulating compound forming solid insulation	N/A	1
5.4.4.4	Solid insulation in semiconductor devices	N/A	
5.4.4.5	Insulating compound forming cemented joints	N/A	Š
5.4.4.6	Thin sheet material	N/A	
5.4.4.6.1	General requirements	N/A	
5.4.4.6.2	Separable thin sheet material	N/A	
ine white	Number of layers (pcs)	N/A	ţ,
5.4.4.6.3	Non-separable thin sheet material	N/A	
mar	Number of layers (pcs)	N/A	~
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	N/A	est-
5.4.4.6.5	Mandrel test	N/A	
5.4.4.7	Solid insulation in wound components	N/A	5
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	N/A	1
t stat	Alternative by electric strength test, tested voltage $(V), K_R$	N/A	5,4
5.4.5	Antenna terminal insulation	N/A	
5.4.5.1	General	N/A	



Reference No.:WTF22D07139658R1Y
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Page 12 of 68

	IEC / EN 62368	- Jr. 20. 4.	
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.2	Voltage surge test	with white other	N/A
		10 10 50	
5.4.5.3	Insulation resistance (MΩ)	MALL WILL MAL	N/A
Set 1	Electric strength test	the state	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	NUT WALL WALL W	N/A
5.4.7	Tests for semiconductor components and for cemented joints	Tex white white whi	N/A
5.4.8	Humidity conditioning	t set set set	N/A
Set 1	Relative humidity (%), temperature (°C), duration (h)	which which which	-
5.4.9	Electric strength test	NUT NUT NUT	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at	<u></u> N/A
5.4.9.2	Test procedure for routine test	it was we with	N/A
5.4.10	Safeguards against transient voltages from external circuits	et miret waitet wait	N/A
5.4.10.1	Parts and circuits separated from external circuits	s at at	N/A
5.4.10.2	Test methods	NATE WALK WALK	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test	and a survey of	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	white white with	N/A
5.4.11	Separation between external circuits and earth	MULTER NALE WAL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	the street while	N/A
5.4.11.2	Requirements	Street and the	N/A
and when	SPDs bridge separation between external circuit and earth	NUTER WALTER WALTER W	N/A
NN LIE	Rated operating voltage U <sub>op</sub> (V)	et the mile mil	
at	Nominal voltage U <sub>peak</sub> (V)	the star we	_
where w	Max increase due to variation $\Delta U_{sp}$	JER NUCL NUC	whit _
de la	Max increase due to ageing $\Delta U_{sa}$	all all so	
5.4.11.3	Test method and compliance	which which which a	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 intro white white	N/A
5.4.12.3	Container for insulating liquid		N/A



Reference No.:WTF22D07139658R1Y	Page 13 of 68

IEC / EN 62368-1			2 M. W.
Clause	Requirement – Test	Result – Remark	Verdict

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	tet set wet with	N/A
5.5.2.1	General requirement	by the me on	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	Tet watter waite waiter	N/A
5.5.3	Transformers	t at the set of	N/A
5.5.4	Optocouplers	MUT. MUT. MILL M.	N/A
5.5.5	Relays	Let get all all all	N/A
5.5.6	Resistors	all all and a	N/A
5.5.7	SPDs	Tet ster street and	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at the test what	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	which which we will be	N/A
me a	RCD rated residual operating current (mA)	white white whe whe	
5.6	Protective conductor	1 1 1 1 1	N/A
5.6.2	Requirement for protective conductors	and and and	N/A
5.6.2.1	General requirements	Class III equipment	N/AS
5.6.2.2	Colour of insulation	- Mr. Mr. M.	N/A
5.6.3	Requirement for protective earthing conductors	t the state street of	N/A
*	Protective earthing conductor size (mm <sup>2</sup> )	me me me	_
WALTE W	Protective earthing conductor serving as a reinforced safeguard	MALIER MALIER MALIE MAL	N/A
LIEK WAL	Protective earthing conductor serving as a double safeguard	NUTEX MUTEX MUTEX MUTEX	N/A
5.6.4	Requirements for protective bonding conductors	s at at at	N/A
5.6.4.1	Protective bonding conductors	it water water water of	N/A
JER	Protective bonding conductor size (mm <sup>2</sup> )	- it it it is	s —
5.6.4.2	Protective current rating (A)	must must must mi	N/A
5.6.5	Terminals for protective conductors	the state state ast	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	with with with with	N/A
t set	Terminal size for connecting protective bonding conductors (mm)	and white when	N/A
5.6.5.2	Corrosion	et mile white white w	N/A
5.6.6	Resistance of the protective bonding system	s at at a	N/A
5.6.6.1	Requirements	white white white white	N/A



Reference No.:WTF22D07139658R1Y	
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Page 14 of 68

	IEC / EN 62368-	2 Mr. M. M.	<u>.</u>
Clause	Requirement – Test	Result – Remark	Verdict
311-		the water water water we	- <u> </u>
5.6.6.2	Test Method	the state of the s	N/A
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	white white white white	_√ <sup>0</sup> N/A
5.6.7	Reliable connection of a protective earthing conductor	and anet safet shiret	N/A
5.6.8	Functional earthing	a man and	N/A
NULLY	Conductor size (mm <sup>2</sup> )	set while multimenters	N/A
	Class II with functional earthing marking	W V A	N/A
white .	Appliance inlet cl &cr (mm)	t white white white wh	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	white white white white	_√ <sup>∩</sup> N/A
5.7.2.1	Measurement of touch current	that at at	N/A
5.7.2.2	Measurement of voltage	LIE WALL WALL WAL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	at suret much sources so	N/A
5.7.4	Unearthed accessible parts	the state	N/A
5.7.5	Earthed accessible conductive parts	with white white wh	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	at with with	N/A
A 16	Protective conductor current (mA)		N/A
in which	Instructional Safeguard	The state of the south of	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	t at set with m	N/A
5.7.7.1	Touch current from coaxial cables	m. m. m	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	WALTER WALTER WALTER WALT	N/A
5.7.8	Summation of touch currents from external circuits	writer whiter whiter whiter	N/A
ex white	a) Equipment connected to earthed external circuits, current (mA)	et suret suret assist	N/A
WALTER	b) Equipment connected to unearthed external circuits, current (mA)	- the state state as	N/A
5.8	Backfeed safeguard in battery backed up suppl	ies	N/A
No. The	Mains terminal ES	No battery used	N/A
	Air gap (mm)	me me in in	N/A
an an	an which which is not	at the star star	In The all
6	ELECTRICALLY- CAUSED FIRE		Р

ŝn.	6	ELECTRICALLY- CAUSED FIRE	Р
5	6.2	Classification of PS and PIS	P



## Reference No.:WTF22D07139658R1Y

Page 15 of 68

	IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
sher.	W W Y A AT 1	the state while while and	- m		
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.	Set P.S		
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A		
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	-√ <sup>0</sup> P		
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P		
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P North P		
4	Combustible materials outside fire enclosure	No such parts	N/A		
6.4	Safeguards against fire under single fault condit	ions	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 waite	N/A		
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TEL WATE WAITE WATER OF	Str Puri		
6.4.3.1	Supplementary safeguards	t at at at	e PS		
6.4.3.2	Single Fault Conditions	when whe whe wh	N/A		
NJER I	Special conditions for temperature limited by fuse	at let set se	N/A		
6.4.4	Control of fire spread in PS1 circuits	where we we we	N/A		



Reference No.:WTF22D07139658R1Y	Page 16 of 68
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IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
6.4.5	Control of fire spread in PS2 circuits	Compliance detailed as follows: – Printed board: rated min. V- 1 – Wire insulation: complying with Clause 6 (See Table 4.1.2 for tubing used). The output cord and input wire are complied to UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21. – 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 to relevant IEC standard.		
6.4.5.2	Supplementary safeguards	S Shurt with	N/A	
6.4.6	Control of fire spread in PS3 circuits	A A A A A	N/A	
6.4.7	Separation of combustible materials from a PIS	and the second	N/A	
6.4.7.2	Separation by distance	t stat state when so	N/A	
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A	
6.4.8	Fire enclosures and fire barriers	See below.	N/A	
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A	
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A	
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	N/A	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A	
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A	
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A	
6.4.8.3.3	Top openings and properties	No top opening	N/A	
de de	Openings dimensions (mm)	in the state	N/A	
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A	
t st	Openings dimensions (mm)	i i at at	~ N/A	
with	Flammability tests for the bottom of a fire enclosure	white white white wh	N/A	
IN IN IN	Instructional Safeguard	the state with out	N/A	



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Reference No.:WTF22D07139658R1Y

Page 17 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Salar	We we we we we we we	the state with share and	in the	
6.4.8.3.5	Side openings and properties	No side openings	N/A	
me m	Openings dimensions (mm)	white white white white	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A	
6.4.9	Flammability of insulating liquid	and me me a	N/A	
6.5	Internal and external wiring		Р	
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P	
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	P	
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A	
6.6	Safeguards against fire due to the connection to additional equipment		/- R∛	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
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
* . &	Personal safeguards and instructions	
7.5	Use of instructional safeguards and instructions	N/A
JEX	Instructional safeguard (ISO 7010)	ø
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		м <sup>-</sup> Р 4
8.2 <	Mechanical energy source classifications	e at at let	50 P.50
8.3	Safeguards against mechanical energy sources	in which which when we	Р
8.4	Safeguards against parts with sharp edges and	corners	Р
8.4.1	Safeguards	white white white white	Р
WEITER N	Instructional Safeguard:	MS1: Edges and corners of enclosure	UNIT P UN
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	NUT P MIL
8.5	Safeguards against moving parts	Su su st	, ₀⊢ N/A of
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A



Reference No.:WTF22D07139658R1Y	Page 18 of 68
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IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
where w	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A	
20. 20.	Moving MS3 parts only accessible to skilled person	MULT MILL WITH THE	N/A	
8.5.2	Instructional safeguard:	alt alt alter alter	N/A	
8.5.4	Special categories of equipment containing moving parts	at set set set	N/A	
8.5.4.1	General	and man we we	N/A	
8.5.4.2	Equipment containing work cells with MS3 parts	t ret the wifet wi	N/A	
8.5.4.2.1	Protection of persons in the work cell	me me me	N/A	
8.5.4.2.2	Access protection override	iter after with white	N/A	
8.5.4.2.2.1	Override system	an an a st	N/A	
8.5.4.2.2.2	Visual indicator	LIER MITER MUTE MALIE	N/A	
8.5.4.2.3	Emergency stop system	i i at at	N/A	
wit .	Maximum stopping distance from the point of activation (m):	er watte waite wate ou	N/A	
which we	Space between end point and nearest fixed mechanical part (mm):	MALTER WALTER WALTE WALT	N/A	
8.5.4.2.4	Endurance requirements	the street outer	N/A	
iet stiet	Mechanical system subjected to 100 000 cycles of operation		N/A	
20.	- Mechanical function check and visual inspection	the me me all a	N/A	
T INTER .	- Cable assembly:	t let set set as	N/A	
8.5.4.3	Equipment having electromechanical device for destruction of media	when when you are	N/A	
8.5.4.3.1	Equipment safeguards	while while while whe	N/A	
8.5.4.3.2	Instructional safeguards against moving parts:	et set set set	N/A	
8.5.4.3.3	Disconnection from the supply	Mr. WILL MILL WILL	N/A	
8.5.4.3.4	Cut type and test force (N):	at what what what is	N/A	
8.5.4.3.5	Compliance	me me me n	N/A	
8.5.5	High pressure lamps	No high pressure lamps used.	N/A	
at 1	Explosion test	We we we the	N/A	
8.5.5.3	Glass particles dimensions (mm):	NUTER INVITE MALTE MALT	_s∿ <sup>™</sup> N/A	
8.6	Stability of equipment	where the state	N/A	
8.6.1	General	MS1: Mass of the unit	N/A	
t Set	Instructional safeguard:	s at at at	< <sup>↓</sup> N/A	
8.6.2	Static stability	white white white wh	N/A	
8.6.2.2	Static stability test:	st at at a	N/A	



Reference No.:WTF22D07139658R1Y Page 19 of 68
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IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
SUL	W W State of the state	fer white white white w	Un an	
8.6.2.3	Downward force test	the states	N/A	
8.6.3 📣	Relocation stability	white white white wh	N/A	
det 3	Wheels diameter (mm):	a stat of	<u> </u>	
in the	Tilt test	INTER MALL WALL WALL	N/A	
8.6.4	Glass slide test	it it let bet	N/A	
8.6.5	Horizontal force test:	ist water water water	N/A	
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A	
8.7.1	Mount means type:	No wall or ceiling	N/A	
8.7.2	Test methods	ret ster street out	N/A	
	Test 1, additional downwards force (N):	me me me	N/A	
LIE WALL	Test 2, number of attachment points and test force (N):	white white white white	N/A	
A WALTER	Test 3 Nominal diameter (mm) and applied torque (Nm):	et milet whilet whilet	N/A	
8.8	Handles strength	the at the .	N/A	
8.8.1	General	No handles	N/A	
8.8.2	Handle strength test		N/A	
h. in	Number of handles:	a sure sure		
Set all	Force applied (N):		Julie - II	
8.9	Wheels or casters attachment requirements		N/A	
8.9.2	Pull test	No such parts	N/A	
8.10	Carts, stands and similar carriers	me me me	N/A	
8.10.1	General	No carts, stands or similar carriers	N/A	
8.10.2 🤇	Marking and instructions:	at at at at	N/A	
8.10.3	Cart, stand or carrier loading test	int with which with	N/A	
Er NUTE	Loading force applied (N):	et set set alter	N/A	
8.10.4	Cart, stand or carrier impact test	we we we	N/A	
8.10.5	Mechanical stability	t set with with so	N/A	
A	Force applied (N):	the start of	* #	
8.10.6	Thermoplastic temperature stability	white white white white	N/A	
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A	
8.11.1	General	No such parts	N/A	
8.11.2	Requirements for slide rails	i i it it	<t< td=""></t<>	
-m-	Instructional Safeguard:	let white white white y	N/A	
8.11.3	Mechanical strength test	1 A A	N/A	



Reference No.:WTF22D07139658R1Y Page 20 of 68

- m	with the second	EC / EN 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict

m	Button/ball diameter (mm):	No such parts	_
8.12 🧹	Telescoping or rod antennas	a start set	N/A
8.11.4	Compliance	NUTER INTE WALL WAL	N/A
8.11.3.3	Integrity of slide rail end stops	when the state	N/A
8.11.3.2	Lateral push force test	while while while while	NA ~
8.11.3.1	Downward force test, force (N) applied:	Star And And And	N/A

9	THERMAL BURN INJURY		«ŶР
9.2	Thermal energy source classifications		P <sup>+</sup>
9.3	Touch temperature limits	inter white white white white	10 P 1
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	NUTER PUN
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy source	S JER SIFE MIT WHIT	Р
9.5 🦽	Requirements for safeguards	she she at at a	E Rot
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.	WP Milet M
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitt	ers at at at a	P
9.6.1	General	See below.	Р
9.6.2	Specification of the foreign objects	See table 9.6.	P .
9.6.3	Test method and compliance	: See table 9.6.	Р

10	RADIATION		Р
10.2 💉	Radiation energy source classification	it get get after after o	S Post
10.2.1	General classification	See below	P
MUTE	Lasers:	et the state when whi	
NLIEK W	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	
St . 5	Image projectors:	a state set	
-m	X-Ray:	the work when a	
+	Personal music player:	at at at at a	
10.3	Safeguards against laser radiation		N/A
NUNLIFER V	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A

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Page 21 of 68

in me	with the set	IEC / EN 62368-1	Sale Mar
Clause	Requirement – Test	Result – Remark	Verdict

10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		Pot
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P
at the	Instructional safeguard provided for accessible radiation level needs to exceed	NUT WITH WAT WAT	N/A
m	Risk group marking and location:	set while while while w	N/A
- Jet	Information for safe operation and installation	i it it it i	N/A
10.4.2	Requirements for enclosures	white white white white	N/A
	UV radiation exposure:	at at at all	N/A
10.4.3	Instructional safeguard:	MALLY MALL MALL WALL	N/A
10.5 🗹	Safeguards against X-radiation	at let get get	N/A
10.5.1	Requirements	No X-radiation	N/A
A WHILE	Instructional safeguard for skilled persons:	et set set aset in	
10.5.3	Maximum radiation (pA/kg):	when the the the	
10.6	Safeguards against acoustic energy sources	t is the street intremantly	N/A
10.6.1	General	when she are a st	N/A
10.6.2	Classification	the south want	N/A
st 18	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):		N/A
sunt	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
	Digital output signal (dBFS):	* whet whee white wh	N/A
10.6.3	Requirements for dose-based systems	the second of the	N/A
10.6.3.1	General requirements	WALTER WALT WALT WALT	√ <sup>0</sup> N/A
10.6.3.2	Dose-based warning and automatic decrease	at at set set set	N/A
10.6.3.3	Exposure-based warning and requirements	Mr. White When the	N/A
WALT	30 s integrated exposure level (MEL30):	et with aller white we	N/A
. Alt	Warning for MEL $\geq$ 100 dB(A):	w w t	N/A
10.6.4	Measurement methods	white white white white white	<i>∽</i> ″P
10.6.5	Protection of persons	at let set set	, NUP
1	Instructional safeguards	WALL WITH THE THE	Р
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	LIFE WALFE WALFE WALFE V	N/A
10.6.6.1	Corded listening devices with analogue input	et allet milet anite and	N/A
1. Ar	Listening device input voltage (mV):		N/A



Reference No.:WTF22D07139658R1Y Page 22 of 68

	IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
10.6.6.2	Corded listening devices with digital input	the world world white	N/A		
mr. n	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	White white white	N/A		
10.6.6.3	Cordless listening devices	at set set	N/A		
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	we we we we	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.1	.1 General		~∕∿P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	white white white white	<i>√</i> 0, b
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	N.LIEP
et whitek	Audio Amplifiers and equipment with audio amplifiers	et the states maret and	N/A
B.2.3	Supply voltage and tolerances	Rated input 9Vdc	Р
B.2.5	Input test:	(See appended table B.2.5)	_√P
B.3	Simulated abnormal operating conditions	Nº Sº	P
B.3.1 📣	General	(See appended table B.3)	NUL P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
m	Instructional safeguard:	iter with white white w	N/A
B.3.3 &	DC mains polarity test	Not supplied by D.C. mains	⊘∽ N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	× ۲
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	Р
B.4	Simulated single fault conditions	TER WALT WALL WALL WA	Р
B.4.1	General	the state of states	Р
B.4.2	Temperature controlling device	See appended table B.4 for details	P
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Set P.
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A

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Reference No.:WTF22D07139658R1Y
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Page 23 of 68

-24	IEC / EN 62368	The unit when when	En a.
Clause	Requirement – Test	Result – Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	WALTER WALTER WALTE WALTE	N/A
С	UV RADIATION		N/A
<b>C</b> .1	Protection of materials in equipment from UV ra	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	at at at a	N/A
C.2	UV light conditioning test	white white white white	N/A
C.2.1	Test apparatus:	at the suff	N/A
C.2.2	Mounting of test samples	- a con an	N/A
C.2.3	Carbon-arc light-exposure test	APPENDER AND	N/A
C.2.4	Xenon-arc light-exposure test	when we we	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	the second of	N/A
D.2	Antenna interface test generator	white muter white white	N/A
D.3	Electronic pulse generator	an ar at at	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
Ę.1 🦽	Electrical energy source classification for audio	o signals	N/A
m	Maximum non-clipped output power (W):	the watter watter water w	· _
. UTEK	Rated load impedance (Ω):	the state is	<
201 - 2	Open-circuit output voltage (V):	while whe whe with	
NUTER AN	Instructional safeguard:	at the state and	
E.2	Audio amplifier normal operating conditions	wat wan our on	N/A
iter whit	Audio signal source type:	set set sites where	
e st	Audio output power (W):	Mr. Mr. M.	_
white	Audio output voltage (V):	et with mitter mitter wi	\$ _
d+	Rated load impedance (Ω):	m n t	
we a	Requirements for temperature measurement	THE STREE MADE MADE	N/A



### Reference No.:WTF22D07139658R1Y

Page 24 of 68

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

E.3	Audio amplifier abnormal operating conditions	i i stat st	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P
F.1	General	THE THE NUMBER OF THE	P N
+ 0	Language	English	
F.2	Letter symbols and graphical symbols	TEX ALTER MITER WAITE WA	°₽0^
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3	Equipment markings	NITE WALL WALL WALL SO	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	, P
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	ST Par
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.	P
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	P
F.3.3.4	Rated voltage:	See copy of marking plate.	JUL P
F.3.3.5	Rated frequency:	DC supply	P
F.3.3.6	Rated current or rated power:	See copy of marking plate.	∩~ Р <i>∿</i>
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	A A A A	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	white white whe whe	N/A
F.3.5.2	Switch position identification marking:	INTER INTERNATION	N/A
F.3.5.3	Replacement fuse identification and rating markings:	Tet	N/A
t dt	Instructional safeguards for neutral fuse:		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	ifthe states with which	



IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A	
F.3.6.1	Class I equipment	aller aller aller alle	N/A	
F.3.6.1.1	Protective earthing conductor terminal:	the set state with	N/A	
F.3.6.1.2	Protective bonding conductor terminals:	m when we we	N/A	
F.3.6.2	Equipment class marking:	let whet aller white as	N/A	
F.3.6.3	Functional earthing terminal marking:	the man	N/A	
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	VILL.	
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.	MUTERP	
F.3.10	Test for permanence of markings	The label was subjected to thepermanence of marking test. Thelabel was rubbed with cloth soakedwith water for 15 sec. And thenagain for 15 sec, with the clothsoaked with petroleum spirit.After this test there was nodamage to the label. The markingon the label did not fade. Therewas no curling and lifting of thelabel edge.After each test, the markingremained legible.		
F.4	Instructions	White white where we	Р	
JULEE IN	a)Information prior to installation and initial use	See user manual	Р	
ar si	b)Equipment for use in locations where children not likely to be present	white white white way	N/A	
in the	c) Instructions for installation and interconnection	NUTE MUST WALL WALL	N/A	
et whitet	d) Equipment intended for use only in restricted access area	et wret writet whitet w	N/A	
. At	e) Equipment intended to be fastened in place	w w t	N/A	
in the	f) Instructions for audio equipment terminals	muth units white white	N/A	
dt .	g) Protective earthing used as a safeguard	i s s s	N/A	
nt wh	h) Protective conductor current exceeding ES2 limits	WALTE WALT MALL MAL	N/A	
an when	i) Graphic symbols used on equipment	set sites when when	N/A	
* whitek	j) Permanently connected equipment not provided with all-pole mains switch	at the state state of	N/A	
.et	k) Replaceable components or modules providing safeguard function	when we we so	N/A	

Reference No.:WTF22D07139658R1Y Pa

Page 25 of 68



Reference No.:WTF22D07139658R1Y
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Page 26 of 68

S	IEC / EN 62368	2 4. W. A.	24 14
Clause	Requirement – Test	Result – Remark	Verdict
<u>sur</u>	I) Equipment containing insulating liquid	with with all	N/A
JUNITER N	m) Installation instructions for outdoor equipment	set and wat	N/A
F.5	Instructional safeguards	mun mun mun	N/A
G	COMPONENTS		P
G.1	Switches		N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	and the state	N/A
G.1.3	Test method and compliance	INTERNAL WALT	N/A
G.2	Relays	t t t	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	at at at	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	it white white white	N/A
G.2.4	Test method and compliance	white white whe	N/A
G.3	Protective devices	L at at at	N/A
G.3.1	Thermal cut-offs	No such component	N/A
INLIEK WAY	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	at white w	N/A
Fex while	Thermal cut-outs tested as part of the equipment as indicated in c)	The state which we	N/A
G.3.1.2	Test method and compliance		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	Tet wet with	N/A
4	b) Thermal links tested as part of the equipment	me m m	N/A
G.3.2.2	Test method and compliance	LIFE ALTER INLIES AN	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	No such component	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	Tet Jet NJet	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	when when we we	N/A
G.3.5.2	Single faults conditions:	mer mer mer m	N/A
G.4	Connectors	it it it is	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	at the week with	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	when when we we	N/A



Page 27 of 68

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

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	The second second	N/A
G.5.2	Endurance test	NUTER INTERIORATION	N/A
G.5.2.1	General test requirements	i it at a	- N/A
G.5.2.2	Heat run test	The would would would	N/A
- Set	Test time (days per cycle):	h at at at	- 5
20. 1	Test temperature (°C):	white white white	<i>i</i> <sub><i>h</i></sub>
G.5.2.3	Wound components supplied from the mains	at at at	N/A
G.5.2.4	No insulation breakdown	white white white with	N/A
G.5.3	Transformers	let set set all	N/A
G.5.3.1	Compliance method:	r m m	N/A
NUTE	Position:	et get wet with	N/A
A	Method of protection:	me m m	N/A
G.5.3.2	Insulation	THE STREE OUT .	N/A
it i	Protection from displacement of windings:	M. M	<u> </u>
G.5.3.3	Transformer overload tests	att and and	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures	TET MITE WALT WALT	N/A
G.5.3.3.3	Winding temperatures - alternative test method	i stat at	⊘∽ N/A
G.5.3.4	Transformers using FIW	White white white	N/A
G.5.3.4.1	General	the state	N/A
m n	FIW wire nominal diameter:	white white white w	_
G.5.3.4.2	Transformers with basic insulation only	at at at 5	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	nt which which which	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	WALL WALL WALL	N/A
G.5.3.4.5	Thermal cycling test and compliance	NUTER INTER MUTER	N/A در N/A
G.5.3.4.6	Partial discharge test	where the second	N/A
G.5.3.4.7	Routine test	MITER INTE MALL WA	N/A
G.5.4 🧷	Motors	No motors used.	N/A
G.5.4.1	General requirements	LIER WALT WALL WAL	N/A
G.5.4.2	Motor overload test conditions	e at at at	< <sup>↓</sup> N/A
G.5.4.3	Running overload test	white white white	N/A
G.5.4.4.2	Locked-rotor overload test	a to the	N/A

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Reference No.:WTF22D07139658R1Y	Page 28 of 68
	1 ugo 20 01 00

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

20. 1	Test duration (days)	with with all all	200
G.5.4.5	Running overload test for DC motors	the set set all	
G.5.4.5 G.5.4.5.2	Tested in the unit	minth when when when	N/A
G.5.4.5.2 G.5.4.5.3	and the star of the second sec	the set set after	
	Alternative method	and when when when	N/A
G.5.4.6	Locked-rotor overload test for DC motors	the state state of the	N/A
G.5.4.6.2	Tested in the unit	and the second	N/A
05400	Maximum Temperature:	t set set with a	N/A
G.5.4.6.3	Alternative method	mer m m r	N/A
G.5.4.7	Motors with capacitors	the state of the south	N/A
G.5.4.8	Three-phase motors	Mr. Mr. W. C.	N/A
G.5.4.9	Series motors	and write write white	N/A
1 1	Operating voltage	- M. W. A.	—
G.6	Wire Insulation	ret with aller aller on	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	with all the antice and	N/A
G.7	Mains supply cords	ALL ALL ALL	N/A
G.7.1	General requirements	No such component	N/A
	Туре:		
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):	The matter white white w	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	t stet stret milet and	N/A
G.7.3.2	Cord strain relief	and the second	N/A
G.7.3.2.1	Requirements	with all and and and	_√N/A
de de	Strain relief test force (N):	an in the st	N/A
G.7.3.2.2	Strain relief mechanism failure	uter alle and and and	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	and the state	N/A
G.7.3.2.4	Strain relief and cord anchorage material	tet mitter white white wh	N/A
G.7.4	Cord Entry	a at at a	N/A
G.7.5	Non-detachable cord bend protection	INTERNAL WALL WALL WIT	N/A
G.7.5.1	Requirements	a at at at	N/A
G.7.5.2	Test method and compliance	WALTE WALT WALL	N/A
TEK WALTE	Overall diameter or minor overall dimension, <i>D</i> (mm):	LIEK MITEK WALTER WALTER W	
t set	Radius of curvature after test (mm):	i i it it	_
G.7.6	Supply wiring space	and and white white	N/A
G.7.6.1	General requirements	I A A A	N/A



Reference No.:WTF22D07139658R1Y	Page 29 of 68
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20	IEC / EN 62368	the men when when a	50 - 20.
Clause	Requirement – Test	Result – Remark	Verdict
sur .	an an a start set of	the marter water water wa	- m
G.7.6.2	Stranded wire	the state	N/A
G.7.6.2.1	Requirements	and the antite and work	_√N/A
G.7.6.2.2	Test with 8 mm strand	1 A A A	N/A
G.8	Varistors	INTER INTE WALL WIT	N/A
G.8.1	General requirements	No such component	_⊘ <sup>−</sup> N/A
G.8.2	Safeguards against fire	ster white white white w	N/A
G.8.2.1	General	i at at at a	N/A
G.8.2.2	Varistor overload test	white whe whe whe	N/A
G.8.2.3	Temporary overvoltage test	at at 1th 5th	N/A
G.9	Integrated circuit (IC) current limiters	Matter white white white	N/A
G.9.1	Requirements	No such component	N/A
100	IC limiter output current (max. 5A)	it was me m	
NITE	Manufacturers' defined drift:	at let stat stat a	_
G.9.2	Test Program	M. M. M.	N/A
G.9.3	Compliance	Tet wet with and	N/A
G.10	Resistors	We we all	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	The NUT WITH WALL V	N/A
G.10.4	Voltage surge test	t t at	⊘∽ N/A
G.10.5	Impulse test	multi muse while whi	N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units	INTER WATE WATE WATE	N/A
G.11.1 🚿	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	NET WALTE WALT WAT	N/A
G.11.3	Rules for selecting capacitors	1 of the At	N/A
G.12	Optocouplers		
where w	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
Set 5	Type test voltage V <sub>ini,a</sub> :	A A A A	_
les res	Routine test voltage, V <sub>ini, b</sub> :	until while while while	
G.13	Printed boards	at at at at	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	an an a	N/A
	Coated printed boards		N/A



- 201

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.13.4	Insulation between conductors on the same inner surface	the set set	N/A	
G.13.5	Insulation between conductors on different surfaces	which which with	N/A	
- 14	Distance through insulation:	mile white whe wi	N/A	
et ste	Number of insulation layers (pcs):	at at at a	¢ _	
G.13.6	Tests on coated printed boards	the main man	N/A	
G.13.6.1	Sample preparation and preliminary inspection	t set set and	N/A	
G.13.6.2	Test method and compliance	mus mus mu	N/A	
G.14	Coating on components terminals	the set states	N/A	
G.14.1	Requirements:	me me me	N/A	
G.15	Pressurized liquid filled components	the state with an	N/A	
G.15.1	Requirements	No such component	N/A	
G.15.2	Test methods and compliance	et with mile white	N/A	
G.15.2.1	Hydrostatic pressure test	and the second	N/A	
G.15.2.2	Creep resistance test	NUTER INTERNATION	۸ <sup>۲</sup> N/A	
G.15.2.3	Tubing and fittings compatibility test		N/A	
G.15.2.4	Vibration test	A ANNIE M	N/A	
G.15.2.5	Thermal cycling test		مN/A	
G.15.2.6	Force test	stre while white white	N/A	
G.15.3	Compliance	e at at at	N/A	
G.16	IC including capacitor discharge function (ICX)	MALL WALL WALL	N/A	
G.16.1	Condition for fault tested is not required	No such component	N/A	
ly a.	ICX with associated circuitry tested in equipment	Mrt Mr Mr V	N/A	
Ster Int	ICX tested separately	at all set as	N/А	
G.16.2	Tests	her me me m	N/A	
MALTE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	Et white white white	- w	
WALLER V	Mains voltage that impulses to be superimposed on:	INTER MATTER WALTER	wints -	
NUTEK WA	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	uset which which a	Niter -	
G.16.3	Capacitor discharge test:	an an a	N/A	
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A	
H.1 🔬	General		- N/A	
H.2	Method A	TER INTER MALTE MALT	N/A	
H.3 🖉	Method B	the second second	N/A	

### Reference No.:WTF22D07139658R1Y Pa

Page 30 of 68



Reference No.:WTF22D07139658R1Y	Page 31 of 68
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IEC / EN 62368-1 Result – Remark Verdict Clause Requirement - Test H.3.1 No telephone ringing signal N/A Ringing signal generated within the equipment. H.3.1.1 Frequency (Hz) .....: H.3.1.2 Voltage (V) ..... Cadence; time (s) and voltage (V) .....: H.3.1.3 H.3.1.4 Single fault current (mA): .....: H.3.2 Tripping device and monitoring voltage N/A H.3.2.1 N/A Conditions for use of a tripping device or a monitoring voltage H.3.2.2 Tripping device N/A H.3.2.3 Monitoring voltage (V) .....: N/A **INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED** .1 N/A INSULATION J.1 General N/A Winding wire insulation .....: N/A Solid round winding wire, diameter (mm)...... Solid square and rectangular (flatwise bending) N/A winding wire, cross-sectional area (mm<sup>2</sup>) .....: J.2/J.3 Tests and Manufacturing κ SAFETY INTERLOCKS N/A K.1 N/A General requirements Instructional safeguard..... No safety interlock provided N/A within the equipment. K.2 N/A Components of safety interlock safeguard mechanism K.3 N/A Inadvertent change of operating mode K.4 Interlock safeguard override N/A K.5 N/A Fail-safe K.5.1 N/A Under single fault condition K.6 Mechanically operated safety interlocks N/A K.6.1 N/A Endurance requirement K.6.2 Test method and compliance .....: N/A K.7 Interlock circuit isolation N/A K.7.1 Separation distance for contact gaps & interlock N/A circuit elements N/A In circuit connected to mains, separation distance for contact gaps (mm) .....: N/A In circuit isolated from mains, separation distance for contact gaps (mm) .....:



Reference	No.:WTF22D07139658R1Y	Pag

1 ST	Page 32 of 68	
	IEC / EN 62368-1	

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Whitek al	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A	
K.7.2	Overload test, Current (A):	run nu nu	N/A	
K.7.3	Endurance test	the set site with	N/A	
K.7.4	Electric strength test	the sale and an	N/A	
L	DISCONNECT DEVICES	·	N/A	
L.1 🦽	General requirements	the start	N/A	
L.2	Permanently connected equipment	t allet miles while whi	N/A	
L.3	Parts that remain energized	Shi to the sh	N/A	
L.4 🗸	Single-phase equipment	white white white white	N/A	
L.5	Three-phase equipment	and the state	N/A	
Ľ.6 🖑	Switches as disconnect devices	LIER WAIT WITH WITH Y	N/A	
L.7 🦽	Plugs as disconnect devices	1 A A A	-	
L.8	Multiple power sources	white white white wh	N/A	
JEX	Instructional safeguard:	A At At S	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements	At the state	N/A	
M.2	Safety of batteries and their cells	- S War wi	N/A	
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	N/A	
M.3	Protection circuits for batteries provided within the equipment	* maret intret intret white	N/A	
M.3.1	Requirements	and the state of	N/A	
M.3.2	Test method	intite water water water	⊲ <sup>™</sup> N/A	
lifet whit	Overcharging of a rechargeable battery	(See appended table AnnexM)	N/A	
ek mirek	Excessive discharging	(See appended table AnnexM)	N/A	
Tet	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
ville v	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	N/A	
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	N/A	
M.4.1	General	at at at at	N/A	



Reference No.:WTF22D07139658R1Y

Page 33 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
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.	N/A	
M.4.2.1	Requirements	t at at set set s	N/A	
M.4.2.2	Compliance	(See appended table M.4.2)	N/A	
M.4.3	Fire enclosure:	V-0 fire enclosure used	N/A	
M.4.4	Drop test of equipment containing a secondary lithium battery	whi whi with su	N/A	
M.4.4.2	Preparation and procedure for the drop test	the white white white w	N/A	
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	N/A	
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	N/A	
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	N/A	
M.4.4.6	Compliance		N/A	
M.5	Risk of burn due to short-circuit during carrying		Р	
M.5.1	Requirement	No bare conductive terminal used	N/A	
M.5.2	Test method and compliance	and the state of the	N/A	
M.6	Safeguards against short-circuits	White Matter White White	<i>⊲</i> ∿N/A	
M.6.1	External and internal faults	a at let let	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.	N/A	
M.7 🗸 🗸	Risk of explosion from lead acid and NiCd batte	eries of the offer	N/A	
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A	
A de	Calculated hydrogen generation rate:	ne m m	N/A	
M.7.2	Test method and compliance	THE NUMBER OF STREET	N/A	
t st	Minimum air flow rate, Q (m <sup>3</sup> /h):	W W At	N/A	
M.7.3	Ventilation tests	at mitter white white wh	N/A	
M.7.3.1	General	1 + at at	N/A	
M.7.3.2	Ventilation test – alternative 1	ALTER MUTE MALT WAL	√ N/A	

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Reference No.:WTF22D07139658R1Y Page

Page 34 of 68

IEC / EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- sh-	Hudrogen geo concentration (9/)	white white white all	
M700	Hydrogen gas concentration (%):	the state of	N/A
M.7.3.3	Ventilation test – alternative 2	water water water water	/N/A
<u></u>	Obtained hydrogen generation rate	the state of the	N/A
M.7.3.4	Ventilation test – alternative 3	all she she she	N/A
at sta	Hydrogen gas concentration (%):	at at at all	N/A
M.7.4	Marking:	in which which which we	N/A
M.8	Protection against internal ignition from externative with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	Nº L At A	N/A
M.8.2 📣	Test method	white white white white	_√ <sup>∩</sup> N/A
M.8.2.1	General	i it at at	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):	LIFE WALTE WALT WALT	n1
M.8.2.3	Correction factors:	a at at at	1 - J
M.8.2.4	Calculation of distance d (mm):	white when when we	<u> -n</u>
M.9	Preventing electrolyte spillage	- at at at a	N/A
M.9.1	Protection from electrolyte spillage	white white white white	N/A
M.9.2	Tray for preventing electrolyte spillage	at the state	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	- The second	N/A
2h	Instructional safeguard:	in which which and a	N/A
N	ELECTROCHEMICAL POTENTIALS	t at at at it is	N/A
w.	Material(s) used	MILL WAY WAY WAY	<u> </u>
0.5	MEASUREMENT OF CREEPAGE DISTANCES A		N/A
Se	Value of <i>X</i> (mm):	me me me	_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS of the state state	N/A
P.1	General	See below	N/A
P.2	Safeguards against entry or consequences of e	entry of a foreign object	N/A
P.2.1	General	ANT ANT ANY ST	N/A
P.2.2	Safeguards against entry of a foreign object	- itel with white whi	N/A
de la	Location and Dimensions (mm):	No opening.	
P.2.3	Safeguards against the consequences of entry of a foreign object	WALTER WALTER WALTER WALTE	N/A
P.2.3.1	Safeguard requirements	Tet street street spirite	N/A
t niret	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	to the set set a	N/A
- <u>-</u>	Transportable equipment with metalized plastic	mur mur mur m	N/A

parts .....:



Reference No.:WTF22D07139658R1Y	Page 35 of 68	
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IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
P.2.3.2	Concernence of entry test	the water where where where		
	Consequence of entry test		N/A	
P.3 V	Safeguards against spillage of internal liquids	Ne and Barida	N/A	
P.3.1	General	No such liquids.	N/A	
P.3.2	Determination of spillage consequences	Mr. Mr. Mr. M.	N/A	
P.3.3	Spillage safeguards	the set set set	N/A	
P.3.4	Compliance	e me ne me s	N/A	
P.4	Metallized coatings and adhesives securing pa		N/A	
P.4.1	General	No such construction.	N/A	
P.4.2	Tests	at at all all	N/A	
	Conditioning, T <sub>C</sub> (°C):	Mr. Mr. M. M.		
ITEN INT	Duration (weeks):	set set site aller	NUTE-N	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	N/A	
Q.1	Limited power sources	See appended table Annex Q.1	N/A	
Q.1.1	Requirements	, at let set st	N/A	
14 2	a) Inherently limited output	where and and an	N/A	
NUTER IN	b) Impedance limited output	at the state	N/A	
	c) Regulating network limited output		N/A	
Ser Mile	d) Overcurrent protective device limited output	and the state of	N/A	
,	e) IC current limiter complying with G.9	me m m	N/A	
Q.1.2	Test method and compliance	See below	N/A	
white a	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N/A	
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A	
2 m	Maximum output current (A)	with white white white	N/A	
et 50	Current limiting method:	s of the life	Set -	
R	LIMITED SHORT CIRCUIT TEST	in the show which we	N/A	
R.1	General	No such consideration.	N/A	
R.2	Test setup	Mat and and and	N/A	
NUTER ON	Overcurrent protective device for test:	at all all all all	IN LITE	
R.3	Test method	ner my me m	N/A	
IL MALIE	Cord/cable used for test:	tet ster ster with	N-11 -1	
R.4	Compliance	the the main of	N/A	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	et the ster with an	N/A	
S.1	Flammability test for fire enclosures and fire ba where the steady state power does not exceed		N/A	



Reference No.:WTF22D07139658R1Y	WTF22D07139658R1Y P
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Page 36 of 68

Clause	IEC / EN 62368	2	Vordiat
Clause	Requirement – Test	Result – Remark	Verdict
s.	Samples, material:	Mar Mar and 2	
mer n	Wall thickness (mm):	white miles white wh	n n
de .	Conditioning (°C):	State of the	\$
it in	Test flame according to IEC 60695-11-5 with conditions as set out	ALTE WATE MALL MALL	N/A
m	- Material not consumed completely	let while while while	N/A
et	- Material extinguishes within 30s	in the st	N/A
me	- No burning of layer or wrapping tissue	MUTER MALT MALT W	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
n. m	Samples, material:	Intife while while whi	-201- X
St 5	Wall thickness (mm):	s at at all	
an an	Conditioning (°C)	it's white white whe	10 00
S.3 5	Flammability test for the bottom of a fire enclose	sure	N/A
S.3.1	Mounting of samples	me me m	N/A
S.3.2	Test method and compliance	at the state of	N/A
	Mounting of samples:	when all all all	
NUTE IN	Wall thickness (mm):	set a street with	NILL N
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	VIE WALTER WALTER WALTER	N/A
- 241-2	Samples, material:	white white white w	<u></u>
JEt	Wall thickness (mm):	at at at a	10 . <u>50</u>
24 - 24	Conditioning (°C)	white white white with	
T. S.	MECHANICAL STRENGTH TESTS	let tet tet ste	P
T.1	General	up me me me	P
T.2	Steady force test, 10 N:	(See appended table T.2)	N/A
Т.3	Steady force test, 30 N:	M. M. M.	N/A
Т.4	Steady force test, 100 N:	(See appended table T.4)	S P
Т.5	Steady force test, 250 N:	M m	N/A
T.6 📣	Enclosure impact test	white mile white white	N/A
1 1	Fall test	i it it it	N/A
MUL	Swing test	TEL MUTE WALT WALT	N/A
T.7 🝼	Drop test:	(See appended table T.7)	P
Т.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Glass Impact Test:	No such glass	N/A



Page 37 of 68

in ch.		IEC / EN 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

T.10	Glass fragmentation test	Glass fragmentation test	
mer 1	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	the state	N/A
the sur	Torque value (Nm):	No such antennas provided within the equipment.	N/A
ندسي U	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General		N/A
Just .	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	at at all all all	N/A
v	DETERMINATION OF ACCESSIBLE PARTS	we are an and	N/A
۷.1 <sub>ک</sub> ې	Accessible parts of equipment	ret the state state of	N/A
V.1.1	General	me me me	N/A
V.1.2	Surfaces and openings tested with jointed test probes	white white white white	N/A
V.1.3	Openings tested with straight unjointed test probes	at the state	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	2 minut	N/A
V.1.5	Slot openings tested with wedge probe	the the state still a	N/A
V.1.6	Terminals tested with rigid test wire	m. m. m. r	N/A
V.2	Accessible part criterion		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
Set .	Clearance:	s at at at	N/A
<b>ў</b> 🖓	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
<sup>ی</sup> ۷.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	which which when we	N/A
Y.3	Resistance to corrosion	and the total and	N/A
Y.3	Resistance to corrosion	white white white we	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	INTER WATER WATER WATER	N/A
Y.3.2	Test apparatus	the state of the	
Y.3.3	Water – saturated sulphur dioxide atmosphere	the write write write a	N/A
Y.3.4	Test procedure:	to the set of	N/A
Y.3.5	Compliance	white all all all	N/A
Y.4	Gaskets	the state of	N/A

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Reference No.:WTF22D07139658R1Y	Page 38 of 68
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IEC / EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
stra	M M Start	the with anti-	me m
Y.4.1	General	so so t	N/A
Y.4.2	Gasket tests	NUTER INTERNATIV	N/A
Y.4.3	Tensile strength and elongation tests	in the st	N/A
in the	Alternative test methods:	NUTER INTE MALL W	N/A
Y.4.4	Compression test	1 A A	N/A
Y.4.5	Oil resistance	ster until until un	N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclo	osure	N/A
Y.5.1	General	at at at	N/A
Y.5.2	Protection from moisture	while white sume	N/A
تنار محال	Relevant tests of IEC 60529 or Y.5.3	at let let	N/A
Y.5.3	Water spray test	the man me m	N/A
Y.5.4	Protection from plants and vermin	of set set as	N/A
Y.5.5	Protection from excessive dust	my me m	N/A
Y.5.5.1	General	THE STAR WITH	N/A
Y.5.5.2	IP5X equipment	Mrs. Mr. M.	N/A
Y.5.5.3	IP6X equipment	Att A MAR	N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General	The still white white	N/A
Y.6.2	Impact test:	20. 20.	N/A



Reference No.:WTF22D07139658R1Y
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Page 39 of 68

Clause

Requirement - Test

IEC / EN 62368-1 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+A1	1:2020	4
Attachme	ent Form No EU_GD_IEC62368_1E	ret wiret miret white white	ne.
Attachme	ent Originator: UL(Demko)		
	ttachment: 2021-02-04		
Copyrigh	t © 2021 IEC System for Conformity Testing and Co Geneva, Switzerland. All rights reserved.	ertification of Electrical Equipme	ent
re me	CENELEC COMMON MODIFICATIONS (EN)	LIEL INTE MUTE WALL W	Р
	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368- Clauses, subclauses, notes, tables, figures and ann those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P
nter white	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	LE WALTE WALTER WALTER WA	P
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure           Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB.	Not such equipment	N/A



Page 40 of 68

24.	IEC / EN 62368-	the mer when when	no in
Clause	Requirement – Test	Result – Remark	Verdict
m	A A A A A	at the mar where	me me
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> Note 1 to entry: The SI unit is Pa <sup>2</sup> s. $E = \int_{0}^{T} p(t)^{2} dt$	antifet whitet whitet	N/A
3.3.19.4	sound exposure level, SEL	NUT IN INT WAT	N/A
Minet M	logarithmic measure of sound exposure relative to a reference value, <i>Eo</i> , typically the 1 kHz threshold of hearing in humans.	MITEK MATEK WALLEY WA	
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	Tet warret waitet wait	W TE W
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	* white white white	WALT WALT
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	WALTE WALTE WALL S	nt wh
3.3.19.5	digital signal level relative to full scale, dBFS	at antie wh	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 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	white white white	white white
	may reach +3,01 dBFS.	me m m n	
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	the man we do	N/A
an oute	Replace 10.6 of IEC 62368-1 with the following:	at not not with	Mar Marin
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an <b>ordinary person</b> , that:	whitet whitet whitet	A MALTER MALTER
	<ul> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or earphones that can be worn in or on or</li> </ul>	WALTER WALTER WALTER	white white



Page 41 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
de	We we we we we we	et all all all	me m	
d.	around the ears; and	24. 25	1 1	
	- has a player that can be body worn (of a size	A A A	SE SE	
	suitable to be carried in a clothing pocket) and is	with mile white	ne an	
	intended for the user to walk around with while in	an an a		
	continuous use (for example, on a street, in a	a at the	St St .	
	subway, at an airport, etc.).	Ster Str Not M	in the set	
		an all to so		
	EXAMPLES Portable CD players, MP3 audio players, mobile	1 A A A	1 N 3	
	phones with MP3 type features, PDAs or similar equipment.	after white white white	all all	
	Detrange of the second s	the to a	1 1	
	Personal music players shall comply with the	A A At	10 SC	
	requirements of either 10.6.2 or 10.6.3.	The with white	with with	
	NOTE 1 Protection against acoustic energy sources from	all all as		
	telecom applications is referenced to ITU-T P.360.	a at at	15 55	
	We want the set of the	TEN NITE MAIN N	pr pr 3	
	NOTE 2 It is the intention of the Committee to allow the	1. 1. 2. 2.		
	alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore,	1 A At	at the	
	manufacturers are encouraged to implement 10.6.5 as soon as	the site out on	n m	
	possible.	in in in		
	The street out which when the	i it it it	t 15 5	
	Listening devices sold separately shall comply	and the star with	and an	
	with the requirements of 10.6.6.	m. m. m.		
	These requirements are valid for music or video	1 A A	At AT	
	mode only.	THE STREEMEN	The Mar	
	The requirements do not apply to:	with the the	24.	
	- professional equipment;	and the second second	the state	
		the street of	in the state	
	NOTE 3Professional equipment is equipment sold through	2 Jun 24		
	special sales channels. All products sold throughnormal		to the second	
	electronics stores are considered not to be professional	10 N N N	and and	
	equipment.	in me me m	24.	
	- hearing aid equipment and other devices for	1 1 1	- 10 A	
	assistive listening;	at the star with	inter when	
		we we we	20.	
	- the following type of analogue personal music	i i itali	14 15	
	players:	At Strate	mar int.	
	long distance radio receiver (for example, a	when when when a	3. 10.	
	multiband radio receiver or world band radio		A St	
	receiver, an AM radio receiver), and	at at at a	The state of	
	cassette player/recorder;	the me me	20 0.	
	NOTE 4 This exemption has been allowed because this		* 15 1	
	technology is falling out of use and it is expected that within a	at the the th	in ant	
	few years it will no longer exist. This exemption will not be	some me m	20. 2.	
	extended to other technologies.	the state of the s	11 11	
	– a player while connected to an external amplifier	Set Set Ste	inter when	
	that does not allow the user to walk around while	me me m	2. 2.	
			at at	
	in use.	AP AP AP	Ser Maria	
		the we we w		
	For equipment that is clearly designed or intended		at at	
	primarily for use by children, the limits of the	at at all a	an Car	
	relevant toy standards may apply.	in me we we	20 20	
	the state state white white white white		- 1 A	
	The relevant requirements are given in	1 10 10 50	and and	
	EN 71-1:2011, 4.20 and the related tests methods	with with sure	24. 24.	
A	and measurement distances apply.		et at	
0.6.1.2	Non-ionizing radiation from radio frequencies		N/A	



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Reference No.:WTF22D07139658R1Y

Page 42 of 68

IEC / EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
SULLIEX SULLIEX SULLIEX	in the range 0 to 300 GHz 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	antiret antiret antiret antiret	ANN CANNER
MALTER	Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	White white white y	NITE WALTE
10.6.2	Classification of devices without the capacity to	estimate sound dose	<u>N/A</u>
10.6.2.1	<b>General</b> 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 $L_{Aeq,T}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	MALTER MAILER MALTER MA	et variet
	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.	te white white white	win ret and
and an	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>r</i> ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	and and and and and and	and and and
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	at all all is	N/A
	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 $LAeq, \tau acoustic$ output shall be $\leq$ 85 dB when playing the fixed	ALL WALLEY WALLEY WALLEY	we ret w



Page 43 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
SUNTER SU	<ul> <li>"programme simulation noise" described in EN 50332-1.</li> <li>– for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.</li> <li>– The RS1 limits will be updated for all devices as per 10.6.3.2.</li> </ul>	antifet antifet antifet antifet	NUTER SUMUTER	
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	WATE MELTE WAL	P	
10.6.2.4	<ul> <li>RS2 is a class 2 acoustic energy source that does not exceed the following: <ul> <li>for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or 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.</li> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> </ul> </li> <li><b>RS3 limits</b></li> <li>RS3 is a class 3 acoustic energy source that</li> </ul>		N/A	
hurr m	exceeds RS2 limits.	WHITE WALTE WALTE W	the Marten	
10.6.3	Classification of devices (new)	at at the 5	N/A	
10.6.3.1	<b>General</b> Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A	
10.6.3.2	<b>RS1 limits (new)</b> 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 $LAeq, \tau acoustic$ output shall be $\leq$ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	ANTER MAILER MAILER MAILER	N/A	



Reference No.:WTF22D07139658R1Y

Page 44 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
whitek an	<ul> <li>– for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.</li> </ul>	and and an and an and	NITER NATION	
10.6.3.3	RS2 limits (new)	at let let set	N/A	
MALIER MALIER	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 ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	ANTER ANTER ANTER ANTER	NALTER WALTER	
10.6.4	Requirements for maximum sound exposure	TE MALL WAL MAR	N/A	
10.6.4.1	Measurement methodsAll volume controls shall be turned to maximum during tests.Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A	
10.6.4.2	<ul> <li>Protection of persons</li> <li>Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.</li> <li>NOTE 1 Volume control is not considered a safeguard.</li> <li>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.</li> <li>Alternatively, the instructional safeguard may be given through the equipment display during use.</li> <li>The elements of the instructional safeguard shall be as follows:</li> </ul>	A MALIER MALIER MALIER	vinite and vinite	



Page 45 of 68

	IEC / EN 62368-		
Clause	Requirement – Test	Result – Remark	Verdict
- sur-	W. W. Start Start	and the south south	when when
		the state	to the
	– element 1a: the symbol AND, IEC 60417-6044	THE STEE MILE	mer man
	(2011-01)	all the second	a de
	<ul> <li>– element 2: "High sound pressure" or equivalent wording</li> </ul>	at at at .	Jet Jier I
	– element 3: "Hearing damage risk" or equivalent	with which which wh	24. 24
	wording		t at a
	- element 4: "Do not listen at high volume levels	ex alter alte white	an ma
	for long periods." or equivalent wording	an an a	A 18
	An equipment safeguard shall prevent exposure	the set set	white white
	of an <b>ordinary person</b> to an RS2 source without	white white white	20 20
	intentional physical action from the ordinary	a at the	At St.
	person and shall automatically return to an output	aller alle white white w	and the s
	level not exceeding what is specified for an RS1	1. 24 1.	A At
	source when the power is switched off.	at set set a	and and
	The equipment shall provide a means to actively	when mer an	21. 2.
	inform the user of the increased sound level when	e at at all	- 5 <sup>8+</sup> 5
	the equipment is operated with an output	at white white white	mer mer
	exceeding RS1. Any means used shall be	-20	it it
	acknowledged by the user before activating a mode of operation which allows for an output	Let Jet Jet	INLIE MALL
	exceeding RS1. The acknowledgement does not	When men all	
	need to be repeated more than once every 20 h of	at the	JEX JEE
	cumulative listening time.	We share a	× 24. 1
	NOTE 2 Examples of means include visual or audible signals.		* at
	Action from the user is always needed.	10 JU ALL ALL	and an
	NOTE 3 The 20 h listening time is the accumulative listening	m. m. m.	4
	time, independent of how often and how long the personal	- At At Set	NIE MIE
	music player has been switched off.	which which when	nn in
	A skilled person shall not be unintentionally	1 A A	the set
no de	exposed to RS3.	JER JER NUT	Mr. White
0.6.5	Requirements for dose-based systems	and the second	N/A
0.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as	and the star star	
	provided below when tested according to EN	at the tet the	1. 1. C
	50332-3, using the limits from this clause.	white white white	201 In
	The manufacturer may offer optional settings to	a at at	10 10
	allow the users to modify when and how they wish	STEP NUT MUT	when when
	to receive the notifications and warnings to	The contract	e t
	promote a better user experience without	At let 5th .	JEEL NUTE .
	defeating the safeguards. This allows the users to be informed in a method that best meets their	rest write write wi	
	physical capabilities and device usage needs. If	1 it it i	at at
	such optional settings are offered, an administrator	ret mile mile whi	m m
	(for example, parental restrictions,	20 20 2	A - 10
	business/educational administrators, etc.) shall be	+ 10 50 50	and and
	able to lock any optional settings into a specific configuration.	when when when	20 20
	comguration.	A A At	Alt Alt
	The personal music player shall be supplied with		



Page 46 of 68

20	IEC / EN 62368-	and when when	24. 14
Clause	Requirement – Test	Result – Remark	Verdict
she .	when we want the start of	and with a start white	me m
VALIEX AN	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	whitek whitek whitek w	Et Marriet
	races, etc.	in the me we	
0.6.5.2	Dose-based warning and requirements	the state of the	N/A
whitek whitek	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	WALTER WALTER WALTER	ANTE ANTER
ret whit	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	Tet white white white	W TEX OU
0.6.5.3	Exposure-based requirements	t at at at	N/A
	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.	White white white	net aniret a
	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.	white white white	white white
	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.	White white white white	at all the all
U.F.K. M	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	the ret set	JEX MUTEX
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
10.6.6.1	<b>Corded listening devices with analogue input</b> 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



Page 47 of 68

	IEC / EN 62368-	the mar with with	
Clause	Requirement – Test	Result – Remark	Verdict
whitek whit	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.	ANTER MATER MATTER	whitek whitek
10.6.6.2	Corded listening devices with digital input	s at at a	N/A
SUNTREK SUNTREK SUNTREK SUNTREK SUNTREK SUNTREK	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 $\leq 100$ dB with an input signal of - 10 dBFS.	and and and and and a	AN AN AN
10.6.6.3	Cordless listening devices	1 4 A A	N/A
	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.	MALTER MALTER MALTER	Whitek whitek
10.6.6.4	Measurement method	which which which is	N/A
ITEX MAIN	Measurements shall be made in accordance with EN 50332-2 as applicable.	Tet thet allet up	Jet Willet w
3	Modification to the whole document		Р



Reference No.:WTF22D07139658R1Y	Page 48 of 68
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IEC / EN 62368-1									
Clause	R	equiremen	t – Test	with	20. 20 B	Result – Rem	ark		Verdict
Delete all the "country" notes in the reference document according to the following list:							P		
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1	s. It
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	s	N. N
	+ -3 <sup>1</sup>	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	¢	ex whi

5	М	odification	to 4.Z1						Р
1 sunut	N el		e of certain sub	ostances in electr d within the EU: s		whitek whi	tet white wh	5 1	P
4	м	odification	to Clause 1						Р
The second	10.	S		1	107 N		V	de.	white
at a	, et	Y.4.5	Note					2	
NUTER	المتد	<del>10.6.1</del>	Note 3	F.3.3.6	Note 3	Y.4.1	Note		
whitek	min	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	*	
et whit	ar'						Note 2	5	
na na		5.6.8	Note 2	5.7.6	Note	5.7.7.1	and 4 Note 1 and	ar.	
jet -	10th	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		
MUTER	WILTE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note		
June	-14	Table 13							
- 58	۲. J	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	ø	
m	-20			Table 12					



Page 49 of 68

	IEC / EN 62368-	1 the mark which which is	
Clause	Requirement – Test	Result – Remark	Verdict
sur.	an an it is at the solution	et and the mail of and and	-10-
	<ul> <li>Add the following new subclause after 4.9:</li> <li>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):</li> <li>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;</li> <li>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</li> <li>c) it is permitted for pluggable 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.</li> <li>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.</li> </ul>	ANTIPE ANTIPE ANTIPE ANTIPE	
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 <b>external</b> <b>circuit</b> 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



Reference No.:WTF22D07139658R1Y

Page 50 of 68

	IEC / EN 62368-	1st with with with	
Clause	Requirement – Test	Result – Remark	Verdict
-m	M. M. V. Charles and	the section with which	when when
	<ul> <li>Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:</li> <li>In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.</li> <li>NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.</li> <li>The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm<sup>2</sup>, at any point 10 cm from the outer surface of the apparatus.</li> <li>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.</li> <li>For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.</li> <li>NOTE Z2 These values appear in Directive 96/29/Euratom of</li> </ul>	and and an and an and an and an an and an and an and an and an an and an an and an	N/A
9	13 May 1996. Modification to G.7.1		N/A
G.7.1	Add the following note:		N/A
G.7.1	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in AnnexZD.	WALTER WALTER WALTER	
10	Modification to Bibliography		P



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Reference No.:WTF22D07139658R1Y

Page 51 of 68

an	24 24 2	IEC / E	N 62368-1	the mere main which a	ne. In.
Clause	Requirement – Test	white white w	1 24	Result – Remark	Verdict
Shirt	Add the following no	tes for the standards	indicated:	And and and an	P-
	IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60364 IEC 60661-2-4 IEC 60664-5 IEC 61032:1997 IEC 61508-1 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-6 IEC 61643-1 IEC 61643-311 IEC 61643-321 IEC 61643-331	NOTE Harmonized a	as HD 6026 as EN 6030 armonized as EN 6060 as EN 6103 as EN 6155 as EN 6155 as EN 6155 as EN 6164 as EN 6164 as EN 6164	39-2. 19-1. in HD 384/HD 60364 series. 11-2-4. 34-5. 32:1998 (not modified). 18-1. 18-2-1. 18-2-1. 18-2-4. 18-2-6. 13-1. 13-311. 13-311. 13-321.	WALTER WALTER
<u></u> 11	ADDITION OF ANNE		de la	the state of the state of	P
11 ZB	ANNEX ZB, SPECIA				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 end connection to other end safety relies on communi- surge suppressors and network terminals and marking stating that the connected to an earth The marking text in the be as follows: In Denmark: "Apparate stikkontakt med jord stikproppens jord." In Finland: "Laite on varustettuun pistoras In Norway: "Apparate stikkontakt" In Sweden: "Apparate uttag"	quipment type A intr equipment or anetwor ection to reliable eart re connected betwee d accessible parts, I he equipment shall b hed mains socket-ou ne applicable countri- atets stikprop skal tils som giver forbindelse liitettävä suojakoske iaan" et må tilkoples jordet	ended for rk shall, if thing or if n the have a be utlet. es shall sluttes en e til	antick mark mark mark	A LEEK WALTER
4.7.3	United Kingdom To the end of the sub added: The torque test is per complying with BS 13 assessed to the relev	rformed using a sock 363, and the plug par	et-outlet rt shall be	A A A A A	N/A



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## Reference No.:WTF22D07139658R1Y

Page 52 of 68

IEC / EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
an a		the share and a share and	the april		
5.2.2.2	<b>Denmark</b> After the 2nd paragraph add the following:	No high touch current measured.	N/A		
tret white	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	tifet whitek whitek 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:	er white white white	UNE UNE		
	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	inter antit water water	TEX .		
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	t at the tet	111 111 111 11 111		
	<ul> <li>one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul>	while while white w	ret whitek		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	and sol states	ans set and		
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WALTER WALTER WALTER	Whitek W		
	and	at the tree whet	ntifek whi		
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	white white white	TEN WALTEN		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NITER WAITER WAITER WAITE	* mirek		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	tet wontet wontet wontet	WALLS WALL		
	<ul> <li>the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3</li> </ul>	white white where we	EX MALTEX		



Page 53 of 68

- an	IEC / EN 62368-	the write white white	In In
Clause	Requirement – Test	Result – Remark	Verdict
sure .	W W Y A A A A A A A A A A A A A A A A A	et alle alle water	me me
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Tet stret stret	NUTER AUNITER
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	white white white whi	ret whitek w
ex white	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	Tex whitek whitek white	vunit fer vunit
5.5.2.1	Norway	the set star	N/A
	After the 3rd paragraph the following is added:	white white white	set set
uner un set st	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	eit and a
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	at white muset white	white white
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	whitet whitet whitet	MITEK WALTER
5.6.1 💉	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuseswith 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>	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	NUTE MALTE
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment type A, the following is added: 	and white white white	N/A
5.6.4.2.1	France	t set see alle	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	white with white	tret yntret w
5.6.5.1	To the second paragraph the following is added:	see white white white	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	et whitet whitet whitet	white white



Reference I	No.:WTF22D07139658R1Y

Page 54 of 68

IEC / EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
SIL.	when when the state of	the state what which	when when		
5.6.8 M	Norway To the end of the subclause the following is added:	white white white	MITER MITER		
et white	Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	an and the antipet and	inter a liter w		
5.7.6	Denmark	me m m	Р		
	To the end of the subclause the following is added:	whitek whitek whitek	white white		
INLIER W	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	marter and the sources as	NITES MITE		
5.7.6.2	Denmark	JER STER MILE M	P.		
	To the end of the subclause the following is added:	t ret ret are	t with the second		
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	white white white	TEK UTEK		
5.7.7.1	Norway and Sweden	Not such system.	N/A		
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	ie white white white	et win fet wint		
	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.	untret whites whites a	NUTE WAS		
	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:	at white white white	North Start		
	"Apparatus connected to the protective earthing of the building installation through the mains	would would would	Tet utet		
	connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television	net antifet antifet ant	et un set un		
	distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	WALTER WALTER WALTER	white white		
	NOTE In Norway, due to regulation for CATV-installations, and	the all the same	20. 20.		



Page 55 of 68

IEC / EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
where y	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.	The set which which	VIII N		
NUTEX WALL	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sures when sures whereas	Whitek whi		
NET MALIET	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	whitek whitek whitek whitek	S EX WALTER		
SUNCE SUNTIF	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	Anticet anticet anticet anticet	an areat summer		
8.5.4.2.3	United KingdomAdd the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	No external circuits.	N/A		
B.3.1 and B.4	Ireland and United KingdomThe following is applicable:To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A		
G.4.2	Denmark         To the end of the subclause the following is added:         Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.         CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against	Not directly connected to the mains	N/A		



Page 56 of 68

20	IEC / EN 62368-	and the she is	5 - S.
Clause	Requirement – Test	Result – Remark	Verdict
de	M M S S	et alle all and and	- m
UNLIEK W	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	white maret white	* WALTER
	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.	erex whitek whitek whitek	averret av
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	whitek whitek whitek white	e whitek
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEK WALTER WALTER WALTER	In Tex M
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 5a or DK 1-7a	whitek whitek whitek wh	er at white
	<i>Justification:</i> Heavy Current Regulations, Section 6c	and when we wanted	MALTEX
G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	NITE WIT
Whitek W	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.	ANALISEK MALISEK ANALISEK ANALISEK	Se would would be would be an inter wo
G.7.1 🖉	United Kingdom	t at at at	N/A
	To the first paragraph the following is added:	white white white wh	- m.
	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.	would would would would would	er ventret ventret mitet ve
MALTER	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	t whitet whitet whitet wh	Jet puntit

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Page 57 of 68

IEC / EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.1	Ireland To the first paragraph the following is added:	which which which which	N/A	
er ynni et ynnife ret	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		S LITER SU	
G.7.2	Ireland and United Kingdom To the first paragraph the following is added:	watte wait wait wat	N/A	
unter au 15 Ek aus	A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	intret white white white	and a	
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	Germany	No CRT within the equipment.	N/A	
SUNTER UNITED	<ul> <li>The following requirement applies:</li> <li>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.</li> <li><i>Justification:</i></li> <li>German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive</li> </ul>	MAN ON SALES	s water was	
	96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I	FLEXIBLE CORDS (EN)	P	



Verdict

## Reference No.:WTF22D07139658R1Y Page 58 of 68

1	
m n r	IEC / EN 62368-1

Clause	Requirement – Test	Result – Remark	

Type of flexible cord		esignations
	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	d 60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords	E	H05Z1Z1-F H05Z1Z1H2-



Reference No.:WTF22D07139658R1Y Page 59 of 68

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

5.2	TABLE: Classification of electrical energy sources						N/A
Supply	Location (e.g. Test conditions		Parameters				ES
Voltage	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
9VDC de	The EUT is	Normal	9VDC	10 <u>-</u> 20	SS	DC	ES1
	designed to be	Abnormal		JER JULE	Inter I	the all	man
	supplied by Type -C port	Single fault – SC/OC	Mr - m	at set	LINE ME	et	NUNLIEK
9VDC	at the set	Normal	9VDC	w. w	SS	DC	ES1
	Wireless Output	Abnormal	dt - dt	114 M	ST TIN	in the	er m
	ariet warret wa	Single fault – SC/OC	-91 -91	an - an	Junet	MUTER WALT	ex whit

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.
 Test Conditions:
 Normal –Full load and no load.
 Abnormal - Overload output
 short circuit; OC= open circuit

.4.1.8 TABLE: Workin	ig voltage measu	rement			N/A
ocation	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Commer	nts
MALTE MALL WALL W	n	* 78 .	et <del>-</del> et .	STER MITER JINS	WALL
the state of the	St State M	mr. mr	24 24	,	

5.4.1.10.2	TABLE: Vicat soft	ening temperature of thermop	olas	stics		N/A
Method			.:	ISO 306 / B50	Intre Mai	
Object/ Part No./Material		Manufacturer/trademark		Thickness (mm)	T softening (°C)	
- min m	er me m.		ét	JIE MILE	LIE MALL	me
Supplemen	tary information:					
N. IN	de an	Star A St	2	N 18 5	×	pr a

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							N/A
Allowed impression diameter (mm) $\leq 2 \text{ mm}$							—
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Impi diame	ression eter (mm)

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3)

SC=



Reference No.:WTF22D07139658R1Y Page 60 of 68

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Clause Requirement – Test		Result – Remark	Verdict	
m	M N A A	and the second s	he the	
- 1	the state the state with	Apr	1 - 11	

Supplementary information:

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
- INTE WALL WALL WAL	- 27 .	20	,		1	5 <sup>10</sup> 5	at Three	Ser Strange

Supplementary information:

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

5.4.4.2	4.2 TABLE: Minimum distance through insulation						
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation*	Required DTI (mm)	Mea	sured DTI (mm)	
- 1	1th 5th 55	MITE WITE WAY	w m	1 - A	, et		
Suppleme	ntary information:						

\*See also sub-clause 5.4.4.9

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz								N/
Insulation r	naterial		E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thicknes d (mm)	s Insulation	V <sub>PW</sub> (Vpk
- mine	with white w		- nue		<del>.</del>	10 - 1	E NITER IN	
Supplemen	ntary information:							

5.4.9	TABLE: Electric strength tests	a at the	set uset with	N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	Tet with aller white white	all all an	i i i it	at at
-me m	Mr. m. the	- Jet Jet M	- mile while w	1. m. 1
Basic/supple	ementary:	me m m	s st	at at a
the sur	we and the set	Tet with mile	This we we	n. n
Reinforced:	white white white white white	1 - 14 - V	at at al	t 5th 5th
m	and the state of	4 NUE MUE N	+ me m	m m
Routine Tes	its:	19 A. A.	t at at	JET JET
- m n	i se de de	- ster outer ont	- white white .	m
Supplement	ary information:			
me m	an at	At St St	mar when and	the man w

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Reference No.:WTF22D07139658R1Y Page 61 of 68

IEC / EN 62368-1					
Clause	Requirement – Test	Mrs. M. W.	Result – Remark	dr . d	Verdict

5.5.2.2	TABLE	: Stored discharge o	on capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class
- 20. <u>-</u>		4 - A X	Normal	Were Burr	me - m	- m m.
iet white	white	mit we we	Single fault: SC/ OC	JEK MUTEK	ULTER WALTER	White whit

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: Resistan	ce of protective condu	uctors and terminati	ons 🦽 🧹	N/A
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
- mu mu m	s at the s	Tet mitte white	white white	mr -m
Supplementary information:				

5.7.4 TABL	E: Unearthed acces	sible parts				N/A
Location	Operating and	Supply	F	ES class		
	fault conditions Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)		
L/N to secondary terminals	Normal V		s = .	at the s	1 - Je	State .
	Abnormal: overload	YUNITE WAY	white white			Julie -
	Single fault: SC/ OC	WALTER WALTE	WALTE WALT	ont - un		n v
Supplementary info	ormation:					

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	E: Earthed accessible conductive part							
Supply vo	Itage (V)	I - · · · · · · · · · · · · · · · ·							
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye							
Power Dis	stribution System								
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt				
- mr	The me	1 10- 10 5	and the second	when the	- au				
L A	At St St .	the we we we	20. 2	A 18	- 10				
Suppleme	entary Information:								
	at at at a	er which which which	n. n.		,ih				

et e vinis

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Reference No.:WTF22D07139658R1Y Page 62 of 68

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

5.8	TABLE	TABLE: Backfeed safeguard in battery backed up supplies							
		Supply voltage (V)	Operating and fault condition			Open-circuit Touch voltage (V) current (A)			
TTE MAIN	min	mer m		de la	et set .	LIER - NITE	white wh		
Supplemer	ntary infor	mation:	· · · · ·						

6.2.2 T	TABLE: Power source circuit classifications								
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class			
9V input	Pin + to -	outre out		- All	set - set	PS2 (declare)			
Wireless outpu 9V	<sup>ut</sup> Pin + to -	8.94	1.63	15.00	5S	PS2			
Wireless output 5V	<sup>ut</sup> Pin + to -	4.88	5 1.71	8.35	5S	PS1			

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.\* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1 TABLE: Determ	ination of Arcing PIS			N/A
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
t aller white white wh	- m - m		t ret ret	NUTE - NUTE
Supplementary information:				

6.2.3.2 TABLE: Determ	ination of resistive PIS		⊘*N/A
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	at the surfet multitude	Set watter water water	Yes (declaration)
Supplementary information:			
	esistive PIS; may be used instead of a wattme ed, the product of (VA x IA) is used	ter. If	ination of a separate classification.
fault conditions has either a po	more than 15 W, measured after 3 wer exceeding 100 W measured i r PTC devices are used, or has ar	mmediately after the introduc	tion of the fault i

30 s after introduction of the fault.



Reference No.:WTF22D07139658R1Y Page 63 of 68

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

8.5.5 TABLE: Hig	h pressure lamp			N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
-	at the set	ister - mile white wh	. m. m.	
Supplementary information	n:		•	

9.6	TABL	E: Temperature measurements for wireless power transmitters							P
Supply volta	age (V)			9.0V		L st	dt .	10 5	
Max. transr	nit powe	er of transr	nitter (W)	15W	ALE WALLE	White	me m	- an	
w/o receiver and direct contact			eiver and contact		ver and at of 2 mm		eiver and at ce of 5 mm		
Foreign of	bjects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel d	isc	27.2	25.0	25.6	25.0	25.4	25.0	25.2	25.0
Aluminum	n ring	26.5	25.0	26.1	25.0	25.3	25.0	25.3	25.0
Aluminur	n foil	26.4	25.0	26.0	25.0	25.4	25.0	25.5	25.0

5.4.1.4, TABL 9.3, B.1.5, B.2.6	3, B.1.5,									
Supply voltage (V)		:	5VDC	9VDC	#-	. d <sup>a</sup> d				
Ambient temperatu	ire during test <i>T</i> <sub>amb</sub>	(°C):	NUTE M	Notice of the second	- n	1 20 20				
Maximum measure	ed temperature T of	f part/at:		Τ(	°C)		Allowed T <sub>max</sub> (°C)			
DC input terminal	With M	52.9	56.3	· /	4 <del>.</del>	70				
PCB near U3			60.2	64.4	LI NT	m - 1	105			
PCB near U1			58.0	62.3	* 70+		105			
C3 body	A DO D	t Je	58.3	60.9	-m-	no - m	105			
Wireless coil	in more more	- the	61.0	64.1		510 - 51	130			
Internal surface of	enclosure	NUTER O	55.7	58.5	1 m - 4	7.	For ref.			
Ambient	white white		45.0	45.0	. et 5	at star	MITE-MALT			
1 A A	the fit	Ac	cessible pa	rts: 🔨 🗸	w. m.	20	t it			
External surface of	enclosure		33.2	35.6	10	NICE N	77			
Ambient	the set is	et mui	25.0	25.0	-20-	-	st - st			
Temperature T of	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed	Insulation			

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101

Reference No.:WTF22D07139658R1Y Page 64 of 68

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

In a second		at the			N 18	1. U.	h an
winding:						$T_{max}$ (°C)	class
This white when we	-20	20-	5	d+	et - set	NICE IN	in the second
Supplementary information:							

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 40°C.

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

B.2.5	Т/	ABLE: Inp	ut test					P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	<	1.47	2.0	7.40			NUTAL N	Normal working, Output: 5.0Vdc, 1.0A
9VDC		1.71	2.0	15.39	an- i		, <del>, ,</del> ,	Normal working, Output: 9.0Vdc, 1.65A

Supplementary information:

<sup>1)</sup> Supply by external DC source, <sup>2)</sup> Measured battery cells voltage and current. The maximum measured current under rated voltage did not exceed 110% of the rated current.

B.3, B.4	TABLE: Abnor	mal operatin	g and fau	ult condit	tion tes	sts	white white	Mr. B. M.
Ambient ter	mperature T <sub>amb</sub> (	°C)			:	See b	pelow	
Power sour	rce for EUT: Mar	nufacturer, mo	del/type,	outputrat	ing:	- 10	when when w	
Componer No.	nt Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observatio	n
Wireless Output	0-1	9VDC	2hours 30mins	A STANDER	Tex white	untrek	Wireless coil: 67.4°C Ambient: 45°C Plastic enclosure outs Ambient: 25.0°C □ Wireless output max. o 1.68A, and unit shutdo Recoverable when fau and no hazards. No hi temperature rise excee limit occurred. Output: 1.65A.	overload to wn at 1.68A It removed gher eding its
C1	S-C	9.0VDC	10mins	VICE VICE	et m	LIEK N	Unit shut down immed damage, no hazard. Recoverable.	liately. No
Wireless Output	S-C	9VDC	10mins	WALTER	JUNITY OF	nn.	Unit shut down immed damage, no hazard. Recoverable.	liately. No

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Page 65 of 68

20		EC / EN 62368-1	24. 14.
Clause	Requirement – Test	Result – Remark	Verdict

<sup>1)</sup> Supply by external DC source, <sup>2)</sup> Measured battery cell voltage and current.Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.

2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

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

4) Limit temperature: Plastic material: 87°C

M.3	TABLE: P	rotection circu	lits for batteri	es provid	ed wi	ithin	the eq	uipment 🧹	N/A
Is it possible	to install th	e battery in a re	everse polarity	position?		le.	P. 1	m. m.	_
				C	Charging				
Equipment Specification		1	Voltage (V)					Current (A)	
		m. n.	14	de a	et	<u>_</u>	لې ۲	of all a	L'IL WALL
				Battery	/ spec	cificat	tion		
		Non-recharge	eable batteries			Rec	hargeal	ble batteries	
		Discharging	Unintentional	(	Charg	jing		Discharging	Reverse
Manufacturer/type		current (A)	charging current (A)	Voltage	Voltage (V) Current (A)		ent (A)	current (A)	charging current (A)
let Set			N. MD					t st	50 ST
Note: The te	ests of M.3.2	are applicable of	only when abov	e appropr	iate da	ata is	s not av	ailable.	
Specified ba	attery tempe	rature (°C)			:	1 th	. 1	10-45	5
Component No.	Fault condition	Charge/ discharge me	Test ode time	Temp. (°C)		urrent Voltag (A) (V)		ge Observation	
me m	-24	1 A	# 50	- Jule	. NET			me m	m. 1
Supplement	ary informati	on:							
		circuit; OC= op					e; NS=	no spillage of	liquid; NE=
- Martin	Mr. M.		x	Alt is	<u></u>	N.C.	11	white all	her when
M.4.2	TABLE: Cr battery	arging safegu	ards for equi	pment co	ontain	ling a	a seco	ndary lithium	n N/A
Maximum sı	pecified cha	rging voltage (V	')		300				—
Maximum s	pecified cha	rging current (A	)		.: 🦼	*	Set	JIE NIE	—
Highest spe	cified chargi	ng temperature	• (°C)		su.	-24		1. 1.	
Lowest spec	cified chargin	ng temperature	(°C)		. Ar		at s	JEL MILE	o
Battery	C	Operating	Mea	surement				Observ	ation

Battery	Operating		Measuremen	t	Observation
manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	



Reference No.:WTF22D07139658R1Y Page 66 of 68

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Matter watter wai	Normal	NETER WALTE	Whit white	AN AN AN	et intret whitet whitet w
stret intret white	Abnormal-	THE THE M	NAT WAL	when when	The street with with
set introt whitet	Single fault – ()	whitek whi	Let white.	white white	when when the white

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 int	ended for inte	erconnectio	n with build	ding wiring	(LPS)	N/A
Output	Condition			I <sub>sc</sub>	(A)	S (	VA)
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
A	at at set	JIET MITE	any s	we we	20		t st
	and the second	6	dt .	Set Set	J.C.	JULE MALL	with a
		1. N.	Jan Jan		201	1 A	it.
			18 1		1	- NALLE	me m

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

Т.4, Т.5		eady force te				NET WALL WALL WALL WALL
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosure top(T.4)	Plastics*	See table 4.1.2	LIEF M	100	UTER 5 UTE	Enclosure remained intact, no crack/ opening developed
Enclosure side(T.4)	Plastics*	See table 4.1.2	Tet nut	100	5,44	Enclosure remained intact, no crack/ opening developed
Enclosure bottom (T.4)	Plastics*	See table 4.1.2	- 54	100	5	Enclosure remained intact, no crack/ opening developed
Supplementa	ry informatio	on:				

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Reference No.:WTF22D07139658R1Y Page 67 of 68

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Clause	Requirement – Test	mer m m	Result – Remark	st s	Verdict

Height Observation (mm)
at let the tree atter with which which is
it we are the second to the
and the state state with white wh

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

Т.7 Т.	ABLE: Drop	1631	it.	the the state with white white
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.

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

Т.8	TABLE: Stress relief test			mur. mur m. m.	Р		
Location/Pa	art	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.	
Supplemen	tary	information:					
*Test was p	erfo	rmed on pro	duct with each sou	urce listed in t	able 4.1.2.	at at the set	

Clearance distanced between:	Peak of working voltage	Required cl	Measured cl
	(V)	(mm)	(mm)
r. m. m. m.		let the wife of	per more - more a



Page 68 of 68

IEC / EN 62368-1					-241-	
Clause	Requirement – Test	mit white white we	Result – Remark	de de	Verdict	

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>	
PCB	Jiangxi Zhong Xin Hua Electronics Industry Co Ltd	ZXH-2	130°C, V-0	UL 796	UL E331298	
(Alternative)	Interchangeable	Interchangeabl e	Min. 105°C, V-0	UL 796	UL	
Enclosure	Interchangeable	Interchangeabl e	HB, min. thickness: 1.5mm, 70°C	UL94	UL	
Wireless coil	Shenzhen Defuruilin Electronics Technology Co., Ltd.	A11	6.3±10% μH at 100KHz, 130°C, N1: Φ0.08mm x 105P x 10Ts	IEC/EN 62368- 1	Tested with appliance	



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Page 1 of 4 **Photo Documentation** Reference No.: WTF22D07139658R1Y



## Figure 1: Overview



Figure 2: External View

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Page 2 of 4 **Photo Documentation** Reference No.: WTF22D07139658R1Y



Figure 3: External View

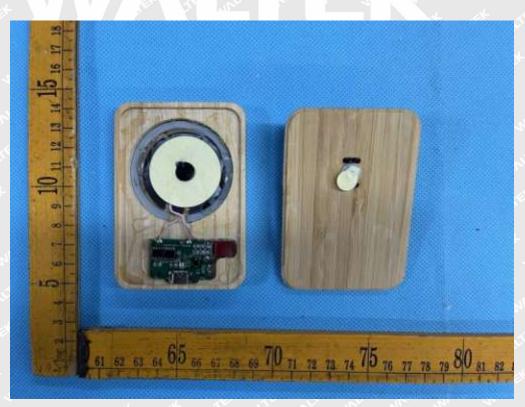


Figure 4: Internal View

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Page 3 of 4 **Photo Documentation** Reference No.: WTF22D07139658R1Y

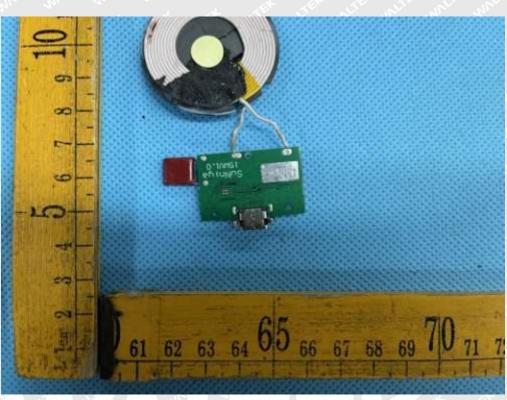


Figure 5: PCB

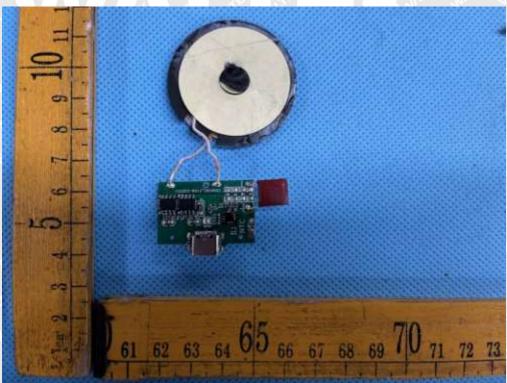


Figure 6: PCB

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Page 4 of 4 **Photo Documentation** Reference No.: WTF22D07139658R1Y



Figure 7

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

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