



TEST REPORT

Reference No.	: 1	WTF22D10209454Y
Applicant	: ,	Mid Ocean Brands B.V.
Address	JUL!	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	NUTER	116266
Address	j.	- of ref with miles white white white white
Product	Š: _	Wireless Charger organizer
Model(s)	ç:	MO9917
Total pages	:m	67 pages and 3 pages of photo.
Standards	: 1	EN IEC 62368-1:2020+A11:2020
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample	S.E.	2022-10-24
Date of Test	÷	2022-10-24 to 2022-11-18
Date of Issue	1.	2022-11-18
Test Result	;	Pass and salid with which when the set

Remarks:

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

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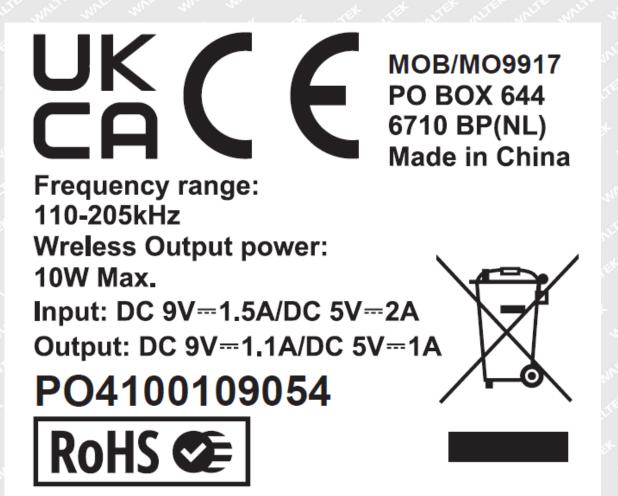
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Test item description	Wireless Cha	arger organizer
Trademark:	MOB	
Model and/or type reference:	MO9917	
Rating(s):		
Remark:	st st	still while while while while whe wh
Whether parts of tests for the product h	nave been sub	contracted to other labs:
Yes 🛛 No		
If Yes, list the related test items and lal	b information:	
Test items:		
Lab information:	marter an	where we want the second
Summary of testing:		t the the the second with the
Tests performed (name of test and to	est clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020	a a mana lu u u vitela	No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
The submitted samples were found to the requirements of above specification		The short of the state of the s
Summary of compliance with Nation		set white white white white white
Summary of compliance with Nation		s (List of countries addressed): 368-1:2020+A11:2020 and BS EN IEC 62368-
Summary of compliance with Nation EU Group Differences The product fulfils the requirements 1:2020+A11:2020. Use of uncertainty of measurement of No decision rule is specified by the applicable limit according to the speci without applying the measurement un 'accuracy method").	of EN IEC 62 for decisions ne IEC standa cification in th ncertainty ("sin	368-1:2020+A11:2020 and BS EN IEC 62368- on conformity (decision rule) : rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
Summary of compliance with Nation EU Group Differences The product fulfils the requirements 1:2020+A11:2020. Use of uncertainty of measurement of No decision rule is specified by the applicable limit according to the speci- without applying the measurement un 'accuracy method"). Other: (to be specified, for example requirements apply)	of EN IEC 62 for decisions ne IEC standa cification in th ncertainty ("sin ple when requi	368-1:2020+A11:2020 and BS EN IEC 62368-
Summary of compliance with Nation EU Group Differences The product fulfils the requirements 1:2020+A11:2020. Use of uncertainty of measurement of No decision rule is specified by the applicable limit according to the speci- without applying the measurement un 'accuracy method"). Other: (to be specified, for example requirements apply) Information on uncertainty of measurement are	of EN IEC 62 for decisions ne IEC standa cification in th ncertainty ("sin ole when requi urement: calculated by	368-1:2020+A11:2020 and BS EN IEC 62368- on conformity (decision rule) : rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple 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
Summary of compliance with Nation EU Group Differences The product fulfils the requirements 1:2020+A11:2020. Use of uncertainty of measurement of No decision rule is specified by the applicable limit according to the speci- without applying the measurement un 'accuracy method"). Other: (to be specified, for example requirements apply) Information on uncertainty of measurement are DD-5014 for test equipment and applica- leCEE. IEC Guide 115 provides guidance on the decision rule when reporting test	for decisions for decisions ne IEC standa cification in th ncertainty ("sin ole when requi urement: calculated by cation of test m the applicatio st results with	368-1:2020+A11:2020 and BS EN IEC 62368- on conformity (decision rule) : rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as



Copy of marking plate:

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



Remark:

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

TEST ITEM PARTICULARS:	a shart the the state with
Product group	end product 🔲 built-in component
Classification of use by:	 Ordinary person Instructed person Skilled person
Supply Connection:	□ AC mains □ DC mains □ not mains connected: □ ES1 □ ES2 □ ES3
Supply % Tolerance:	□ +10%/-10% □ +20%/-15% □ +%/% ⊠ None
Supply Connection – Type:	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector is other: not Mains connected
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 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 _{L-L} ⊠ not AC mains
Altitude during operation (m)	⊠ 2000 m or less □m
Altitude of test laboratory (m)	⊠ 2000 m or less □ m
Mass of equipment (kg)	🛛 0.22kg

1.21

Page 5 of 67

POSSIBLE TEST CASE VERDICTS:	white white where any same is a 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 the statest
Date of receipt of test item	.: 2022-10-24
Date (s) of performance of tests	.: 2022-10-24 to 2022-11-18

GENERAL REMARKS:

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

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

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

GENERAL PRODUCT INFORMATION:

Product Description

1. The EUT covered by this report is a Wireless Charger organizer used as information apparatus. It is supplied by external power supply.

5

- 2. The manufacturer specified maximum ambient temperature is 45°C. The specified altitude is up to and including 2000 m above sea level.
- 3. The all circuits complied with ES1 and PS1 no other circuit existed.

Model Differences

N/A

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

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4			Ø
	V		
		1	

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
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS1: <15 Watt circuits	External enclosure and Internal combustible material	N/A	N/A	N/A
7	Injury caused by hazardous s	ubstances		
Class and Energy Source	Body Part	Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	_√ [™] N/A ∽
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part		Safeguards	
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED for indicating	Ordinary	N/A	N/A	N/A S

ENERGY SOURCE DIAGRAM

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

ES PS MS See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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Page 7 of 67

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Clause	Requirement – Test	Result – Remark	Verdict

GENERAL REQUIREMENTS			P -	
4.1.1 📣	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P	
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P Set son	
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	SVI P	
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A	
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A	
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A	
4.1.15	Markings and instructions	(See Annex F)	P	
4.4.3	Safeguard robustness	See below	_N ς Ρ	
4.4.3.1	General	2 Jun 2n 1	Р	
4.4.3.2	Steady force tests	(See Annex T.2, T4 and T.5).	S P	
4.4.3.3	Drop tests	(See Annex T.7)	Р	
4.4.3.4	Impact tests	(See Annex T.6)	P	
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A	
4.4.3.6	Glass impact tests	No such glass used.	N/A	
4.4.3.7	Glass fixation tests	No such parts.	N/A	
in m	Glass impact test (1J)	white white white white w	N/A	
1 1	Push/pull test (10 N)	S A A A	N/A	
4.4.3.8	Thermoplastic material tests	VIER MUTE MUTE WALL WA	N/A	
4.4.3.9	Air comprising a safeguard	a at at all	N/A	
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.4, 4.4.3.3, no safeguard damaged.	P	
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A	
4.4.5	Safety interlocks	No such parts.	N/A	
4.5	Explosion	at at at at a	کر ج	
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P	



Reference No	5.: W1	F22D10)209454Y

Page 8 of 67

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Clause	Requirement – Test	Result – Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Pet
Alt a	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors	See below	P
et Je	Fix conductors not to defeat a safeguard	it it let get	S ^{er} P _N
24	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	let set site as a	N/A
4.8	Equipment containing coin/button cell batteries	and the second	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	of let set states	N/A
4.8.3	Battery compartment door/cover construction	mu mu m n	N/A
INCITE N	Open torque test	the state strate out	N/A
4.8.4.2	Stress relief test	What will an an	N/A
4.8.4.3	Battery replacement test	at with white	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test	ater with white white	N/A
4.8.4.6	Crush test	AN A At	N/A
4.8.5	Compliance	at intree intree intree would work	N/A
A	30N force test with test probe	a stat	N/A
mr. m	20N force test with test hook	MITTER NOLT WALL WALL	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	N/A
4.10	Component requirements	Inter white white white	N/A
4.10.1 ₀	Disconnect Device	it at at at	N/A
4.10.2	Switches and relays	in which which when we	N/A

5	ELECTRICALLY-CAUSED INJURY		-√ ⁰ P
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	UNLIE WALLS WALL WALL	201 P 20
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
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



Reference No.:	WTF22D10209454Y

Page 9 of 67

	EN IEC 62368-	the shirt shirt is	10
Clause	Requirement – Test	Result – Remark	Verdict
Sale -	prover and the set of	en all and when we	2 m
5.2.2.7	Audio signals	No and a	N/A
5.3	Protection against electrical energy sources	White white white white	- M P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	the street wiret white	WILLEP
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	in the second	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	set waiter waiter waiter	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
mer me	Accessibility to outdoor equipment bare parts	white white white white	N/A
5.3.2.2	Contact requirements	a the state	N/A
in more	Test with test probe from Annex V	LIEF WALTS WALT WALT	- 1
5.3.2.2 a)	Air gap – electric strength test potential (V)	i i at at	_<∕ [−] N/A
5.3.2.2 b) Air gap – distance (mm)		N/A	
5.3.2.3	Compliance	s at at a	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4 5	Insulation materials and requirements		ΎΡ
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic		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 with	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	stift miret antifet wait	N/A
5.4.1.5.3	Thermal cycling test	i i it it	N/A
5.4.1.6	Insulation in transformers with varying dimensions	when any and and and	N/A
5.4.1.7	Insulation in circuits generating starting pulses	1 1 A At	N/A
5.4.1.8	Determination of working voltage	in which which which we	N/A
5.4.1.9	Insulating surfaces	the state of	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	white white white white	N/A
5.4.1.10.2	Vicat test	NUTE WALTE WALT WALT	N/A
5.4.1.10.3	Ball pressure test	1 A A A	/N/A
5.4.2	Clearances	The white white white	N/A
5.4.2.1	General requirements	s st at at	N/A
SMP S	Clearances in circuits connected to AC Mains, Alternative method	white white white wh	N/A
5.4.2.2	Procedure 1 for determining clearance	the the main and	N/A



Page 10 of 67

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

st	Temporary overvoltage	· · · · · -
5.4.2.3	Procedure 2 for determining clearance	N/A
5.4.2.3.2.2	a.c. mains transient voltage	A A -
5.4.2.3.2.3	d.c. mains transient voltage	white white -
5.4.2.3.2.4	External circuit transient voltage	1 1 -
5.4.2.3.2.5	Transient voltage determined by measurement	
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
5.4.2.6	Clearance measurement	N/A
5.4.3	Creepage distances	N/A
5.4.3.1	General	N/A
5.4.3.3	Material group	in which we -
5.4.3.4	Creepage distances measurement	N/A
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
5.4.4.4	Solid insulation in semiconductor devices	N/A
5.4.4.5	Insulating compound forming cemented joints	N/A
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
in white	Number of layers (pcs)	N/A
5.4.4.6.3	Non-separable thin sheet material	N/A
WAL	Number of layers (pcs)	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	N/A
5.4.4.6.5	Mandrel test	N/A
5.4.4.7	Solid insulation in wound components	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	N/A
+ SEt	Alternative by electric strength test, tested voltage (V), <i>K</i> _R	N/A
5.4.5	Antenna terminal insulation	N/A
5.4.5.1	General	K N/A



Reference No.:	WTF22D10209454Y
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Page 11 of 67

Clause	EN IEC 62368-	2. 4. 4. 2.	Vardiat
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.2	Voltage surge test	me me m	N/A
5.4.5.3	Insulation resistance (MΩ)	JUST NUTE INTE	N/A
it i	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	NUTER WINTER WINLIE W	N/A
5.4.7	Tests for semiconductor components and for cemented joints	Tet antifet antifet and	N/A
5.4.8	Humidity conditioning	t set set with	N/A
aster as	Relative humidity (%), temperature (°C), duration (h)	when when we we	
5.4.9	Electric strength test	White white white	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at	N/A
5.4.9.2	Test procedure for routine test	the when when we	N/A
5.4.10 Safeguards against transient voltages from external circuits		et white white whi	N/A
5.4.10.1	Parts and circuits separated from external circuits	at at at	N/A
5.4.10.2 Test methods		white white white	N/A
5.4.10.2.1 General		at the	N/A
5.4.10.2.2 Impulse test		a june i	N/A
5.4.10.2.3	.10.2.3 Steady-state test		N/A
5.4.10.3 Verification for insulation breakdown for impulse test		e at at a	N/A
5.4.11 Separation between external circuits and earth		white white white	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	MUTEK MUTEK WALTER	N/A
5.4.11.2	Requirements	a de de	N/A
st when	SPDs bridge separation between external circuit and earth	NUTER WALTE WALL W	N/A
	Rated operating voltage U _{op} (V)	let intret intret whi	- 10 ⁻²
. At	Nominal voltage U _{peak} (V)	a at al	- 1
me m	Max increase due to variation ΔU_{sp}	White white where	m -
det d	Max increase due to ageing ΔU_{sa}	at at at	_# -
5.4.11.3	Test method and compliance	WALTE WALT WAL	N/A
5.4.12	Insulating liquid	at the let	N/A
5.4.12.1	General requirements	the water water we	N/A
5.4.12.2	Electric strength of an insulating liquid	t at set is	N/A
5.4.12.3	Compatibility of an insulating liquid	Mar Mar M	N/A
5.4.12.4	Container for insulating liquid	to the tot	N/A



Reference No.:	WTF22D10209454Y	
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Page 12 of 67

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

5.5	Components as safeguards		ts as safeguards N/A	
5.5.1	General	No such components as safeguards.	N/A	
5.5.2	Capacitors and RC units	the set state with	N/A	
5.5.2.1	General requirement	her me me m	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	LET WALLEY WALLEY WALLEY	N/A	
5.5.3	Transformers	t at all all all as	N/A	
5.5.4	Optocouplers	me me me m	N/A	
5.5.5	Relays	Let ster street with	N/A	
5.5.6	Resistors	Mr. M. M. M.	N/A	
5.5.7	SPDs	Tet Tet aller and	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at the table when	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	when we we we	N/A	
me a	RCD rated residual operating current (mA)			
5.6	Protective conductor		N/A	
5.6.2	Requirement for protective conductors	S MAL WIT	N/A	
5.6.2.1	General requirements Class III equipment		N/A	
5.6.2.2	Colour of insulation	a she she she a	N/A	
5.6.3	Requirement for protective earthing conductors	at that the with a the way	N/A	
	Protective earthing conductor size (mm ²)	Mr. M. W.		
WALTE W	Protective earthing conductor serving as a reinforced safeguard	MALTER WAITER WALTER WALTER	N/A	
LIFER WAL	Protective earthing conductor serving as a double safeguard	NIFEK WAITER WAITER WAITER	N/A	
5.6.4	Requirements for protective bonding conductors	s at at let	N/A	
5.6.4.1	Protective bonding conductors	the write write write wi	N/A	
Jet	Protective bonding conductor size (mm ²)	- at the set of	_	
5.6.4.2	Protective current rating (A)	Mr. Mr. Mr. M.	N/A	
5.6.5	Terminals for protective conductors	alt alt wet wet	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	when when we will an	N/A	
**	Terminal size for connecting protective bonding conductors (mm)	the water water with a	N/A	
5.6.5.2	Corrosion	and the shall shall sh	N/A	
5.6.6	Resistance of the protective bonding system	a at at at	N/A	
5.6.6.1	Requirements	white white white white	N/A	



Page 13 of 67

	EN IEC 62368-1	in the the	<u>e</u>
Clause	Requirement – Test	Result – Remark	Verdict
5.6.6.2	Test Method	wet wet we we	N/A
5.6.6.3	Resistance (Ω) or voltage drop	white white white white	N/A
5.6.7	Reliable connection of a protective earthing conductor	and the work with	N/A
5.6.8	Functional earthing	s m m m	N/A
MALI	Conductor size (mm ²)	et with outer white w	N/A
. st	Class II with functional earthing marking	when the second	N/A
when a	Appliance inlet cl &cr (mm)	white white white wh	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks	white white white white	~ ⁰ N/A
5.7.2.1	Measurement of touch current	i it it it	N/A
5.7.2.2	Measurement of voltage	TE WALTE WALT WAT	N/A
5.7.3	Equipment set-up, supply connections and earth connections	at all the marter wallet w	N/A
5.7.4	Unearthed accessible parts	st at a	- N/A
5.7.5	Earthed accessible conductive parts		N/A
5.7.6	Requirements when touch current exceeds ES2 limits	of white white	N/A
to the	Protective conductor current (mA)	3	N/A
mer	Instructional Safeguard	In white white white	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	the state with a	N/A
5.7.7.1	Touch current from coaxial cables	and the and a	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	LIEK WALTER WALTER WALTER	N/A
ex white	a) Equipment connected to earthed external circuits, current (mA)	at suret maret united an	N/A
INLIEK .	b) Equipment connected to unearthed external circuits, current (mA)	the state state and	N/A
5.8	Backfeed safeguard in battery backed up supplie	es of the second se	N/A
mere w	Mains terminal ES	No battery used	N/A
A 4	Air gap (mm)	in my sur sur	N/A
		the start of start	the Same

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



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Reference No.: WTF22D10209454Y

Page 14 of 67

	EN IEC 62368-	2. 20. 20. 2.	
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	- P.
6.2.3	Classification of potential ignition sources	at at set set	N/A
6.2.3.1	Arcing PIS	in min when when w	N/A
6.2.3.2	Resistive PIS	t at set set of	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	Р
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
m	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	ions	+ Pot
6.4.1	Safeguard method	Method by control of fire spread applied	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	at another would	N/A.s
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE WATE WATE WATE	N/A
6.4.3.1	Supplementary safeguards	e at at at	N/A
6.4.3.2	Single Fault Conditions	white white white white	N/A
NUTER IN	Special conditions for temperature limited by fuse	it it it it it	N/A
6.4.4	Control of fire spread in PS1 circuits	white where we are	Р
6.4.5	Control of fire spread in PS2 circuits	Only PS1	N/A
6.4.5.2	Supplementary safeguards	it was me we	N/A
6.4.6	Control of fire spread in PS3 circuits	Only PS1	N/A
6.4.7	Separation of combustible materials from a PIS	the the me	N/A
6.4.7.2	Separation by distance	- stat astat and and	N/A
6.4.7.3	Separation by a fire barrier	m. m. s.	N/A
6.4.8	Fire enclosures and fire barriers	street outer and white	N/A s
6.4.8.2	Fire enclosure and fire barrier material properties	and the state	N/A
6.4.8.2.1	Requirements for a fire barrier	aret mare white white a	N/A
6.4.8.2.2	Requirements for a fire enclosure	i i de de	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	and white white white wh	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	Let Set Ste all	N/A

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Reference No.:	WTF22D10209454Y	

Page 15 of 67

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
6.4.8.3.2	Fire barrier dimensions	white white all	N/A
6.4.8.3.3	Top openings and properties	aft after after	N/A
<u>.</u>	Openings dimensions (mm)	the due to a	N/A
6.4.8.3.4	Bottom openings and properties	alifet miter while wh	N/A
d . 1	Openings dimensions (mm)		+ _ N/A
WIT-	Flammability tests for the bottom of a fire enclosure	TE WHITE WALL WAD	N/A
when y	Instructional Safeguard	t while muse while	N/A
6.4.8.3.5	Side openings and properties	Strat at	N/A
me m	Openings dimensions (mm)	WITCH WALFE WALT W	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	Tet allet allet and	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	of the the state	N/A
6.4.9	Flammability of insulating liquid	mur mur m	N/A
6.5	Internal and external wiring	tet the state	Par Pila
6.5.1	General requirements	Mr. Mr. m. v	Р
6.5.2	Requirements for interconnection to building wiring	att a mutter and	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets		N/A
6.6	Safeguards against fire due to the connection to add	ditional equipment	Р
7	INJURY CAUSED BY HAZARDOUS SUBSTANCE	<u>, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,</u>	N/A
7.2	Reduction of exposure to hazardous substances	-	N/A
7.3	Ozone exposure	NUTER INTER NATES N	N/A
7.4	Use of personal safeguards or personal protecti	vo oquipmont (BBE)	N/A
<u>, , , , , , , , , , , , , , , , , , , </u>	use of personal saleguards of personal protecti		IN/A

7.4	Use of personal saleguards of personal protective equipment (FFE)	
	Personal safeguards and instructions	—
7.5 💉	Use of instructional safeguards and instructions	
	Instructional safeguard (ISO 7010)	
7.6	Batteries and their protection circuits	N/A

8	MECHANICALLY-CAUSED INJURY		P P	
8.2	Mechanical energy source classifications			
8.3	Safeguards against mechanical energy sources		NUT PORT	
8.4	Safeguards against parts with sharp edges and corners		P A	
8.4.1	Safeguards	Ster Street Miller	Р	
NUEŁ	Instructional Safeguard MS1 enclo	.	P	



Reference No.:	WTF22D10209454Y

Page 16 of 67

0	EN IEC 62368-	2. al. a. a.	
Clause	Requirement – Test	Result – Remark	Verdict
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	mer me me	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
et white	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
- Alt	Moving MS3 parts only accessible to skilled person	i i at at a	N/A
8.5.2	Instructional safeguard:	white white white white	N/A
8.5.4	Special categories of equipment containing moving parts	suret milet aniret aniret	N/A
8.5.4.1	General	an a stat	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	LIER NALTE WALL WALL	N/A
8.5.4.2.1	Protection of persons in the work cell	s at at at	<∕ [←] N/A
8.5.4.2.2	Access protection override	white white whe wi	N/A
8.5.4.2.2.1	Override system	A 14 54 5	N/A
8.5.4.2.2.2	.5.4.2.2.2 Visual indicator		N/A
8.5.4.2.3	Emergency stop system	at the state	N/A
set stat	Maximum stopping distance from the point of activation (m):		N/A
t set	Space between end point and nearest fixed mechanical part (mm):	and when we a	N/A
8.5.4.2.4	Endurance requirements	in the second works white	N/A
WALTER WAL	Mechanical system subjected to 100 000 cycles of operation	Tet with milet and	N/A
to the	- Mechanical function check and visual inspection	all we at	N/A
r. m.	- Cable assembly:	wifet intite would would .	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	et unet wirdt whilet ou	N/A
8.5.4.3.1	Equipment safeguards	the market	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	NIEL WITE WHITE WAL	N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N):		√ [™] N/A
8.5.4.3.5	Compliance	s at at at	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
* Jule	Explosion test	of the fit of	N/A
8.5.5.3	Glass particles dimensions (mm):	mut mut mu m	N/A
8.6	Stability of equipment	the state of	N/A



Page 17 of 67

EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- sur-	W W ALL ALL ALL ALL ALL ALL ALL ALL ALL	the second second second second	
8.6.1	General	MS1: Mass of the unit	N/A
m. m	Instructional safeguard:	wintite which which when	N/A
8.6.2	Static stability	a at at at	N/A
8.6.2.2	Static stability test	MIT WALL WAL WAL	N/A
8.6.2.3	Downward force test	at at set set	N/A
8.6.3	Relocation stability	the white white white a	N/A
- INLIER .	Wheels diameter (mm):	t net stet stet of	ģ —
	Tilt test	MUT ME ME M.	N/A
8.6.4	Glass slide test	Tet with number on the	N/A
8.6.5	Horizontal force test:	all all the second	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	et outer unit would be	N/A
đ	Test 1, additional downwards force (N):	a state	N/A
white w	Test 2, number of attachment points and test force (N)	white white white wh	N/A
neit whe	Test 3 Nominal diameter (mm) and applied torque (Nm):	att a watter watte	N/A
8.8	Handles strength	All and all all the	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	t wet with mitter of	N/A
*	Number of handles:	Mr. M. m. r.	_
where we	Force applied (N):	. ITEL MITEL INTE MAIL	white
8.9	Wheels or casters attachment requirements	when the second	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	and the state	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	white white white wh	N/A
8.10.3	Cart, stand or carrier loading test	- The state of the	N/A
Iner with	Loading force applied (N)	white mare and a sent	N/A
8.10.4	Cart, stand or carrier impact test	a at at	N/A
8.10.5	Mechanical stability	LIEF INITE WALLS WALL	N/A
* 10+	Force applied (N):	i i at at at	. dr - d
8.10.6	Thermoplastic temperature stability	WALTER WALT WALL W	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A



Reference No.: WTF22D10209454Y Page 18 of 67

EN IEC 62368-1			
Clause Requirement – Test Result – Remark Verd			
8.11.1	General	No such parts	N/A
0.44.0			

h du	Button/ball diameter (mm): No such parts	
8.12	Telescoping or rod antennas	N/A
8.11.4	Compliance	N/A
8.11.3.3	Integrity of slide rail end stops	
8.11.3.2	Lateral push force test	N/A
8.11.3.1	Downward force test, force (N) applied:	N/A^
8.11.3	Mechanical strength test	N/A
the s	Instructional Safeguard:	N/A
8.11.2 📣	Requirements for slide rails	/N/A 👒

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	a at at at .	<u>کې</u> P
9.3	Touch temperature limits	in the same with the	Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy sources	a Kunti wan	м Р
9.5	Requirements for safeguards		S P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P
9.5.2	Instructional safeguard:	Instructional safeguard is not required.	N/A
9.6 🛒	Requirements for wireless power transmitters	the street outer on the	N° PS
9.6.1	General	and the second	P P
9.6.2	Specification of the foreign objects	it white white white we	Р
9.6.3	Test method and compliance:	(See appended table 9.6)	← P.⊘

10	RADIATION		Р
10.2 🔊	Radiation energy source classification		JUL P JUL
10.2.1	General classification	See below	Р
in white	Lasers	LIEK MITE MUTE MAILE V	
A WALTER	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	
STER.	Image projectors:	at at the set	



Page 19 of 67

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

	X-Ray:	50 N	—
we w	Personal music player:	A NUTER MUTE WALT WALT	
10.3	Safeguards against laser radiation		N/A
at an	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lam (including LED types)	os and lamp systems	P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P
untites wh	Instructional safeguard provided for accessible radiation level needs to exceed	white white white white	N/A
1 5	Risk group marking and location:	a state of	N/A
e m	Information for safe operation and installation	white white white white	N/A
10.4.2	Requirements for enclosures	a at at at	<∕ [↓] N/A
- nh-	UV radiation exposure:	i white white white wh	N/A
10.4.3	Instructional safeguard:	at at at a	N/A
10.5	Safeguards against X-radiation	while whe are we	N/A
10.5.1	Requirements	No X-radiation	N/A
	Instructional safeguard for skilled persons		
10.5.3	Maximum radiation (pA/kg)	and the state of the	
10.6	Safeguards against acoustic energy sources	in my my my	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	W. W. A.	N/A
wer w	Acoustic output <i>L</i> _{Aeq,T} , dB(A):	t with with mith mark	N/A
At 1	Unweighted RMS output voltage (mV):	an we at at	N/A
n m	Digital output signal (dBFS):	where out on the white	N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements	VIET INTE MAIL MALL M	N/A
10.6.3.2	Dose-based warning and automatic decrease	a at at a	N/A
10.6.3.3	Exposure-based warning and requirements	antic main wat wat	≦N/A
Set .	30 s integrated exposure level (MEL30):	the state of	N/A
1. 20.	Warning for MEL ≥ 100 dB(A):	white white white white	N/A
10.6.4	Measurement methods	at at the set	N/A
10.6.5	Protection of persons	1 - mr. mr. mr. a	N/A
a liter	Instructional safeguards:	at lef left left is	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	when when we we	N/A



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Reference No.: WTF22D10209454Y

Page 20 of 67

EN IEC 62368-1			In In
Clause	Requirement – Test	Result – Remark	Verdict
15	1. 1º -		and the second

10.6.6.1	Corded listening devices with analogue input		N/A
we way	Listening device input voltage (mV):	white mile white white	NA ~
10.6.6.2	Corded listening devices with digital input	White the state	N/A
er m	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	NUTER WALTE WALT WALT	N/A
10.6.6.3	Cordless listening devices	i shat at	N/A
an.	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	see intro when whe w	N/A

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING	P
B.1	General	Tet with sufer with	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	Set stret wifer white	PS PS
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	JEL P
Jet	Audio Amplifiers and equipment with audio amplifiers	when when we we	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc/9Vdc	[∽] P
B.2.5	Input test:	(See appended table B.2.5)	, SP
B.3	Simulated abnormal operating conditions	a she sh	Р
B.3.1	General	(See appended table B.3)	N P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
NUTE	Instructional safeguard:	t tet stet whet 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	No such audio amplifier	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	Р
B.4	Simulated single fault conditions	* set state with wi	Р
B.4.1	General	m m co	P
B.4.2	Temperature controlling device	No such parts	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	PN PN
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	e P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р



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Reference No.: WTF22D10209454	·Υ
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Page 21 of 67

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Clause	Requirement – Test	Result – Remark	Verdict
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	Jun ¹ P
B.4.9	Battery charging and discharging under single fault conditions	No such battery	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV	radiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	and show when	N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples	NR TE WALL WALL WALL	N/A
C.2.3	Carbon-arc light-exposure test	to the test state of	N/A
C.2.4	Xenon-arc light-exposure test	is white white when we	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	white when white the	N/A
D.2	Antenna interface test generator	and the street where	N/A
D.3	Electronic pulse generator	mar mar in in	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTA	INING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for auc		N/A
with a	Maximum non-clipped output power (W)	it alifet while while wh	
det .	Rated load impedance (Ω)	: A A A	£ —
ne m	Open-circuit output voltage (V)	INTER MUTE WALL WALL	
1 th	Instructional safeguard	the state of the	
E.2	Audio amplifier normal operating conditions	MALL MALL MALL WAL	N/A
A STER	Audio signal source type	that at at	_
200	Audio output power (W)	in the set of a	
Ster	Audio output voltage (V)	is at at at 5	<u> </u>



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Reference No.: WTF22D10209454Y

Page 22 of 67

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

	Rated load impedance (Ω):		—
me n	Requirements for temperature measurement	aller mile wall wall	.√N/A
E.3	Audio amplifier abnormal operating conditions	The second second	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P N
F.1	General	TEX STER STER WATE W	R.
- 15-	Language:	English	
F.2	Letter symbols and graphical symbols	at white white white white	√P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	LIEP.N
F.3	Equipment markings	me me me	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	W P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	P.O
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	νP
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc or 9Vdc	N/A
F.3.3.2 📣	Equipment without direct connection to mains	See above.	W 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.	Р №
F.3.3.5	Rated frequency:	DC supply	🖉 P 🔬
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
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	at at at at	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	unit with with the	N/A
F.3.5.2	Switch position identification marking	The walt wat wat a	N/A
F.3.5.3	Replacement fuse identification and rating markings:	of state milet anited an	N/A
at-	Instructional safeguards for neutral fuse:	the state of	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A



EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Nexted and the statistic and interest	En alter anter alle alle	
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	while white white white	_√N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	n m n	N/A
F.3.6.1.1	Protective earthing conductor terminal:	LEX NUTEX MUTEX MUTE W	N/A
F.3.6.1.2	Protective bonding conductor terminals:	the second	N/A
F.3.6.2	Equipment class marking:	t with out in and and	N/A
F.3.6.3	Functional earthing terminal marking:	NV VI AL A	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	white-
F.3.8	External power supply output marking:	No such parts.	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	JEK P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	
F.4	Instructions	The she see	P
in and	a)Information prior to installation and initial use	See user manual	, C P
et stet	b)Equipment for use in locations where children not likely to be present	the state of the	N/A
20	c) Instructions for installation and interconnection	mer mer mer m	N/A
WALTER W	d) Equipment intended for use only in restricted access area	maret united united whit	N/A
de la	e) Equipment intended to be fastened in place	the state	N/A
w. m.	f) Instructions for audio equipment terminals	WITE WATE WATE WATE	N/A
1 10	g) Protective earthing used as a safeguard	i at at at	N/A
r when	h) Protective conductor current exceeding ES2 limits	are write write write	N/A
WAL	i) Graphic symbols used on equipment	at street market market of	N/A
Jet .	j) Permanently connected equipment not provided with all-pole mains switch	the state of the	N/A



Reference No.: W	TF22D10209454Y
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Page 24 of 67

Clause	Requirement – Test	Result – Remark	Verdict
	Trequirement – Test	Result - Remark	veruici
NITEK N	k) Replaceable components or modules providing safeguard function	the state state	N/A
	I) Equipment containing insulating liquid	when the me	N/A
ine whi	m) Installation instructions for outdoor equipment	and and mark out of	N/A
F.5	Instructional safeguards	ne me m m	N/A
G	COMPONENTS		P
G.1	Switches	M W the	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	where the state	N/A
G.1.3	Test method and compliance	White white white w	N/A
G.2	Relays	the states	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	s at at a	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	winter which which	N/A
G.2.4	Test method and compliance	NUTER MUTER MOUTH	_s n [™] ⊲N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No such component	N/A
sex while	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	The state with white	N/A
+ INLIEK	Thermal cut-outs tested as part of the equipment as indicated in c)	+ ret stet stet	N/A
G.3.1.2	Test method and compliance	me sur su	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	at set set	N/A
	b) Thermal links tested as part of the equipment	we we we we	N/A
G.3.2.2	Test method and compliance	at that the will	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	when when the	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	unt une son w	N/A
G.3.5.2	Single faults conditions:	TE white white white	N/A
G.4 了	Connectors	a at at at	- N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	a at at	N/A



Page 25 of 67

	EN IEC 62368-	<u>b. m. m. s.</u>	
Clause	Requirement – Test	Result – Remark	Verdict
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	The state state	N/A
G.5	Wound components	mur mur m	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	the and an an	N/A
G.5.2	Endurance test	set stret outer white	N/A
G.5.2.1	General test requirements	Shi shi sh	N/A
G.5.2.2	Heat run test	et allet intit white	N/A
dt .	Test time (days per cycle):	w it at	<i></i>
n n	Test temperature (°C):	MITER MALTE WALL W	P
G.5.2.3	Wound components supplied from the mains	s at at	N/A
G.5.2.4	No insulation breakdown	LIFE MALIE WALL WAS	N/A
G.5.3	Transformers	s at at at	N/A
G.5.3.1	Compliance method:	white white white	N/A
STREE .	Position:	the state of the	N/A
the a	Method of protection:	white white white	N/A
G.5.3.2	Insulation	the state .	́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́
	Protection from displacement of windings::		_
G.5.3.3	Transformer overload tests	and the state of	N/A
G.5.3.3.1	Test conditions	Mr. Mr. M.	N/A
G.5.3.3.2	Winding temperatures	of the street with	N/A
G.5.3.3.3	Winding temperatures - alternative test method	m. m	N/A
G.5.3.4	Transformers using FIW	where where white a	۸/۸ کې
G.5.3.4.1	General	The second second	N/A
in me	FIW wire nominal diameter:	stift milter while wh	_
G.5.3.4.2	Transformers with basic insulation only		√ N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	The working working working	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	WALTER WALTE WALTE	N/A
G.5.3.4.5	Thermal cycling test and compliance	Tet the street of the	N/A
G.5.3.4.6	Partial discharge test	m. m. m. n	N/A
G.5.3.4.7	Routine test	Tet steet atter with	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	set with miles with	N/A
G.5.4.2	Motor overload test conditions	Shi Shi A	N/A
G.5.4.3	Running overload test	JEE JEE ME	N/A



Reference No.: WTF22D10209454Y	Page 26 of 67
	1 490 20 01 01

- 2m	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
G.5.4.4.2	Locked-rotor overload test	and and and all	N/A	
Where w	Test duration (days):	JEK JIEK MICK	Juli _	
G.5.4.5	Running overload test for DC motors	and the main of	N/A	
G.5.4.5.2	Tested in the unit	with all the white	N/A	
G.5.4.5.3	Alternative method		N/A	
G.5.4.6	Locked-rotor overload test for DC motors	Ter intitut white white	N/A	
G.5.4.6.2	Tested in the unit	. s it it	N/A	
111 1	Maximum Temperature:	Intro Matter Main	N/A	
G.5.4.6.3	Alternative method	A A A	N/A	
G.5.4.7	Motors with capacitors	WHIT WILL WILL W	N/A	
G.5.4.8	Three-phase motors	at at at	N/A	
G.5.4.9	Series motors	the main and sur	N/A	
at antifet	Operating voltage:	at the state state		
G.6	Wire Insulation	with with all	N/A	
G.6.1	General	Only ES1 existed	N/A	
G.6.2	Enamelled winding wire insulation	Mr. Mr. M.	N/A	
G.7	Mains supply cords	att and and	N/A	
G.7.1	General requirements	No such component	N/A	
mer	Туре:	TE MITE WALT WAL	- 12	
G.7.2	Cross sectional area (mm ² or AWG):	i s at at	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	white sure whe	N/A	
G.7.3.2	Cord strain relief	aufet miller white a	м ² "МИ/А	
G.7.3.2.1	Requirements	all and the	N/A	
re me	Strain relief test force (N):	NUTER MUTER WALTER WA	N/A	
G.7.3.2.2	Strain relief mechanism failure	i stat de	, ∧ N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	TEL MALTE WALL WAL	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	the state	N/A	
G.7.4	Cord Entry	white white white	N/A	
G.7.5	Non-detachable cord bend protection	at the left	N/A	
G.7.5.1	Requirements	white white white all	N/A	
G.7.5.2	Test method and compliance	at at set is	N/A	
* stet	Overall diameter or minor overall dimension, <i>D</i> (mm):	a she at at	_	
m	Radius of curvature after test (mm):	annie white white	- m	
G.7.6	Supply wiring space	a at the	N/A	



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Reference No.: WTF22D10209454Y Page 27 of 67

24	EN IEC 62368-	1 the well with which y	n. en
Clause	Requirement – Test	Result – Remark	Verdict
Mar	n n start st	Et white white white wh	2011
G.7.6.1	General requirements	the state of	N/A
G.7.6.2	Stranded wire	and the and the sentile sentile	N/A
G.7.6.2.1	Requirements	s at at	N/A
G.7.6.2.2	Test with 8 mm strand	NUTER ANUTE ANNUE AND	N/A
G.8 🦽	Varistors	a st at set	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	h at at at a	N/A
G.8.2.1	General	white white white white	N/A
G.8.2.2	Varistor overload test	at let set set	N/A
G.8.2.3	Temporary overvoltage test	antit wat wat and	N/A
G.9	Integrated circuit (IC) current limiters	at let let set	N/A
G.9.1	Requirements	No such component	N/A
at white	IC limiter output current (max. 5A):	at the state state of	
	Manufacturers' defined drift	me me con co	
G.9.2	Test Program	Tet ster alle and	N/A
G.9.3	Compliance	and and an an	N/A
G.10	Resistors	At a number would be	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	TER NUTE WITH WALTE V	N/A
G.10.3	Resistor test	the state	<n <<="" a="" td=""></n>
G.10.4	Voltage surge test	MUTER INTER WALL WAS	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	WITE WATE WATE WATE	N/A
G.11	Capacitors and RC units	+ + + + A	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	1 of the At	S N/A
G.11.3	Rules for selecting capacitors	white white with we	N/A
G.12	Optocouplers	+ 1+ 1+ 1+ 1	N/A
fit i	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
n m	Type test voltage V _{ini,a} :	WALTE WALTE WATE WATE	_
50 50	Routine test voltage, V _{ini, b} :	at at at at	
G.13	Printed boards	LIC WILL WILL WILL V	Р
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	P
G.13.2	Uncoated printed boards	street while while while	N/A



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Reference No.: WTF22D10209454Y

Page 28 of 67

24	EN IEC 62368-	<u></u>	
Clause	Requirement – Test	Result – Remark	Verdict
0.40.0		the well's white all the	
G.13.3	Coated printed boards	* * *	N/A
G.13.4	Insulation between conductors on the same inner surface	White White White	N/A
G.13.5	Insulation between conductors on different surfaces	ALTER WALTER WALTER WA	N/A
et ster	Distance through insulation:	at at at a	N/A
20	Number of insulation layers (pcs):	white white white	
G.13.6	Tests on coated printed boards	t set set set	N/A
G.13.6.1	Sample preparation and preliminary inspection	me me m	N/A
G.13.6.2	Test method and compliance	the star star	N/A
G.14	Coating on components terminals	me me me	N/A
G.14.1	Requirements:	the state states of	N/A
G.15	Pressurized liquid filled components	the star star star	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	the second second	N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		
G.15.2.5	Thermal cycling test	are when when whe	N/A
G.15.2.6	Force test	i at at at	N/A
G.15.3	Compliance	where when whe	N/A
G.16	IC including capacitor discharge function (ICX)	at at set	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
LIER MUT	ICX with associated circuitry tested in equipment	let set set a	N/A
1 A	ICX tested separately	in my me in	N/A
G.16.2	Tests	et get get with	N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test :	with the set	
and an	Mains voltage that impulses to be superimposed on	white white white	*
nt mit	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	white white white w	
G.16.3	Capacitor discharge test:	Tet aller aller and	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	ter intre intre inter	N/A
H.2	Method A	the state	N/A
H.3	Method B	aller alle and	N/A

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Page 29 of 67

10	EN IEC 62368-	in the second	8. 4.
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal	N/A
	Kinging Signal	generated within the equipment.	
H.3.1.1	Frequency (Hz):	at at at at	
H.3.1.2	Voltage (V)	ALT WALL WALL WIT	
H.3.1.3	Cadence; time (s) and voltage (V):	at all all all	
H.3.1.4	Single fault current (mA):	me me me	
H.3.2	Tripping device and monitoring voltage	t set with with a	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the state state	N/A
H.3.2.2	Tripping device	Mr. Mr. Mr. M.	N/A
H.3.2.3	Monitoring voltage (V):	at the other work	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	in much when when w	N/A
STER	Winding wire insulation:	the set set a	<u> </u>
20. 0	Solid round winding wire, diameter (mm)	when such all an	N/A
INTER WAY	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²)::	fet white white	N/A
J.2/J.3	Tests and Manufacturing		Jet-
к	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	at the set set	N/A
K.4	Interlock safeguard override	inthe white white white	N/A
K.5 🛒	Fail-safe	at all set set	N/A
K.5.1	Under single fault condition	when when when a	N/A
K.6	Mechanically operated safety interlocks	t set set ster ster in	N/A
K.6.1	Endurance requirement	mar when when we	N/A
K.6.2	Test method and compliance:	ster ster with mite	N/A
K.7	Interlock circuit isolation	when the second second	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	Tet ward warde warde	N/A
WALTER	In circuit connected to mains, separation distance for contact gaps (mm):	of anited antifed anited al	N/A
wifet .	In circuit isolated from mains, separation distance for contact gaps (mm)	at at set s	N/A



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Page 30 of 67

0	EN IEC 62368-	N. W. W. A.	
Clause	Requirement – Test	Result – Remark	Verdict
-S ^N	Electric strength test before and after the test of	AND PULL OUR ON	N/A
MALIER N	K.7.2	the state state with	NULLES
K.7.2	Overload test, Current (A):	Mr. Mr. M. The	N/A
K.7.3	Endurance test	and and all the second	N/A
K.7.4	Electric strength test	m win we we	N/A
L	DISCONNECT DEVICES		N/A
L.1 🔬	General requirements	M. W.	N/A
L.2	Permanently connected equipment	t stift while while whi	N/A
L.3	Parts that remain energized	and the state of	N/A
L:4 🛷	Single-phase equipment	mitter miter white white	_s ^{®™} N/A
L.5	Three-phase equipment	and the set	N/A
Ľ.6 🐠	Switches as disconnect devices	it and and and and a	N/A
L.7 5	Plugs as disconnect devices	a at at at	N/A
L.8	Multiple power sources	to white white white wh	N/A
JEt .	Instructional safeguard:	A 14 14 5	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards	No battery used	N/A
M.3	Protection circuits for batteries provided within the equipment	t minet minet whitet whi	N/A
M.3.1	Requirements	and the state of	N/A
M.3.2 📣	Test method	intife water water water	√ [™] N/A
1. 5	Overcharging of a rechargeable battery	+ + + t	N/A
2 20-	Excessive discharging	HER MALT WALL WALL	N/A
ek whitek	Unintentional charging of a non-rechargeable battery	et milet milet whitet w	N/A
At	Reverse charging of a rechargeable battery	, tot	N/A
M.3.3	Compliance	INTER MUTE WALT WAT	⊸ Ñ/A
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	N/A
M.4.1	General	in in the	N/A
M.4.2	Charging safeguards	THE ALTER MUTE MALTER	N/A
M.4.2.1	Requirements	the state of the s	, N/A
M.4.2.2	Compliance	at internation white whether whe	N/A
M.4.3	Fire enclosure:		N/A

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Reference No.: WTF22D10209454Y

Page 31 of 67

20	EN IEC 62368-	in the she	an an
Clause	Requirement – Test	Result – Remark	Verdict
		to and which which we	
M.4.4	Drop test of equipment containing a secondary lithium battery	tet thet whet man	N/A
M.4.4.2	Preparation and procedure for the drop test	when when we we	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	NTER WAITER WATER WATER	N/A
M.4.4.4	Check of the charge/discharge function	at at at set	N/A
M.4.4.5	Charge / discharge cycle test	me we we we	N/A
M.4.4.6	Compliance	t at at at a	N/A
M.5	Risk of burn due to short-circuit during carrying	g which whic	N/A
M.5.1	Requirement	let set uset wife	N/A
M.5.2	Test method and compliance	me me me	N/A
M.6	Safeguards against short-circuits	tet ster street miles	N/A
M.6.1	External and internal faults	and and the	N/A
M.6.2	Compliance	et when mile while w	N/A
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	WALTER WALTE WALTE WALT	N/A
NUTE MAY	Calculated hydrogen generation rate:	at all all all all a	N/A
M.7.2	Test method and compliance		N/A
an man	Minimum air flow rate, Q (m ³ /h):	The star with white a	N/A
M.7.3	Ventilation tests	which we have	N/A
M.7.3.1	General	t white mile white wh	N/A
M.7.3.2	Ventilation test – alternative 1		N/A
m m	Hydrogen gas concentration (%)	white white white white	<i>⊲</i> ⁰ N/A
M.7.3.3	Ventilation test – alternative 2	i it it it	N/A
to the	Obtained hydrogen generation rate:	when white white white	N/A
M.7.3.4	Ventilation test – alternative 3	1 A A A	- N/A
an	Hydrogen gas concentration (%):	mer mer mer m	N/A
M.7.4	Marking:	- at at set 3	N/A
M.8	Protection against internal ignition from externative with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1 🔊	General	International and and	<i>∞</i> N/A
M.8.2	Test method	a at at at	N/A
M.8.2.1	General	The works works work a	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	+ + + + +	1 - S
M.8.2.3	Correction factors:	white white white we	- <u>-</u>
M.8.2.4	Calculation of distance <i>d</i> (mm)	A A A A	<u></u>

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Page 32 of 67

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

M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage	white mare white white	N/A
M.9.2	Tray for preventing electrolyte spillage	m + + At	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	ALTE WALTE MALL WAL	N/A
it white	Instructional safeguard:	ster street wither would we	N/A
N	ELECTROCHEMICAL POTENTIALS	an an	N/A
maria	Material(s) used:	et auter antifer antite white	- m
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
ne m	Value of <i>X</i> (mm):	white white white white	m
P. d	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS A	N/A
P.1 👋	General	Only PS1 ES1	N/A
P.2 🖉	Safeguards against entry or consequences of e	entry of a foreign object	< [©] N/AS
P.2.1	General	anti unt and an	N/A
P.2.2	Safeguards against entry of a foreign object	the state of the	N/A
Sec. 1	Location and Dimensions (mm):	white white she we	4
P.2.3	Safeguards against the consequences of entry of a foreign object	att annuter annuter	N/A
P.2.3.1	Safeguard requirements		N/A
t set	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	it would write write w	N/A
when	Transportable equipment with metalized plastic parts	WALTE WALT WALL WAS	N/A
P.2.3.2	Consequence of entry test:	with all and and and	N/A
P.3	Safeguards against spillage of internal liquids	Mr. m. w.	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards	LER MITE MAIL WALL W	N/A
P.3.4	Compliance	a at at a	N/A
P.4	Metallized coatings and adhesives securing pa	rts with which which	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	WALL WALL WALL WALL	N/A
Set St	Conditioning, T _C (°C):	at the set set	STER-0
- ann	Duration (weeks):	the approximity approximately	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	R P
Q.1	Limited power sources	See appended table Annex Q.1	Р



Page 33 of 67

211	EN IEC 62368-	1 million and and a	h = -2
Clause	Requirement – Test	Result – Remark	Verdict
Q.1.1	Requirements	the matter water water and	Р
JALIER IN	a) Inherently limited output	THE THE NUMBER	N/A
	b) Impedance limited output	The star of the	P
Set white	c) Regulating network limited output	A regulating network limits the output in compliance with table Q.1 both under normal operating conditions and after any single fault.	ST P
white y	d) Overcurrent protective device limited output	t whet white white white	N/A
dt.	e) IC current limiter complying with G.9	white the second	N/A
Q.1.2	Test method and compliance:	See appended table Annex Q.1	VILLE P
LIE WALL	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N ^V P
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
. let	Maximum output current (A):	1 1 1 1 A	N/A
m a	Current limiting method:	white white white whe	20-
R	LIMITED SHORT CIRCUIT TEST	At 1 St 5th	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup		N/A
	Overcurrent protective device for test:	a mar mar me	<u> </u>
R.3	Test method	t the state of the	N/A
A	Cord/cable used for test:	when the start	
R.4	Compliance	State all the market and	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	when the second to the	N/A
S.1	Flammability test for fire enclosures and fire ba where the steady state power does not exceed		N/A
et intre	Samples, material:	at that what what is	STEL N
	Wall thickness (mm)	me me no	
where y	Conditioning (°C)	- 15th miles mile whi	Maria
NUTEK NN	Test flame according to IEC 60695-11-5 with conditions as set out	ret ret wint wint	N/A
	- Material not consumed completely	ner me m m	N/A
TE WALT	- Material extinguishes within 30s	tet the with miles	N/A
e at	- No burning of layer or wrapping tissue	- Mr. Mr. M.	N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
20			

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Wall thickness (mm).....:



Reference No.: WTF22D10209454Y	
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Page 34 of 67

EN IEC 62308-1				
Clause	Requirement – Test	mur. m. r	Result – Remark	Verdict

	Conditioning (°C):	N N A A	+
S.3	Flammability test for the bottom of a fire enclosure		_√N/A
S.3.1	Mounting of samples	in a st st	N/A
S.3.2	Test method and compliance	ALTE WATE WALL WALL	ه/N/A ^s
	Mounting of samples:	s at at at	
2m	Wall thickness (mm):	ste white white whe we	$\frac{1}{n}$
S.4	Flammability classification of materials	t at let set is	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
A	Samples, material:	Mr. M. S. A.	
in an	Wall thickness (mm):	LIER NUE WITE WAIT V	n - 1
* 1	Conditioning (°C):	i i stat	1 - A
T .111	MECHANICAL STRENGTH TESTS	ret infile while while wh	Р
T.1 🖉	General	and the state of	P
Т.2	Steady force test, 10 N:	(See appended table T.2)	<i>√</i> [™] P
Т.3	Steady force test, 30 N:	the set set	N/A
Т.4	Steady force test, 100 N:	a sure and	P
т.5 🔬	Steady force test, 250 N:	(See appended table T.5)	J ^E P
Т.6	Enclosure impact test	(See appended table T.6)	Р
MUTER	Fall test	t tet stet with mi	Р
*	Swing test	The Me in the	Р
Т.7	Drop test	(See appended table T.7)	J P
T.8	Stress relief test:	sur sur st	N/A
T.9 🔊	Glass Impact Test:	No such glass	N/A
T.10 <	Glass fragmentation test		
240-	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Ŭ Š	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1 Juni	General		N/A
	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen		N/A



Page 35 of 67

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

V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		_Ä/A
V.1.1	General	Start At At	N/A
V.1.2	Surfaces and openings tested with jointed test probes	ALL WALL WALL WALL	N/A
V.1.3	Openings tested with straight unjointed test probes	ret with outer inite with	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	241 141 1	N/A
V.1.5	Slot openings tested with wedge probe	t aller mills while whi	N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	Accessible part criterion	white white white white	√°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
A INLIE	Clearance:	et tet stet stet is	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	When any the second	N/A
Y.3	Resistance to corrosion	At outer onlife	N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	Ter white white white w	N/A
Y.3.2	Test apparatus	t tet stet when we	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	m. m. w	N/A
Y.3.4	Test procedure:	wet wret wret white	N/A
Y.3.5	Compliance	an in in it	N/A
Y.4 📣	Gaskets	ret wret mile white	N/A
Y.4.1	General	the state	N/A
Y.4.2	Gasket tests	ist must unlist white wh	N/A
Y.4.3	Tensile strength and elongation tests	www.	N/A
sure .	Alternative test methods:	muser white white white	⇒Ñ/A
Y.4.4	Compression test	a at at at	N/A
Ŷ.4.5	Oil resistance	intite watt wat wat	N/A
Y.4.6	Securing means	a at at at	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	at at at at a	N/A
Y.5.2	Protection from moisture	white white white white	N/A
SIL	Relevant tests of IEC 60529 or Y.5.3	the state of the	N/A



Reference No.: WTF22D10209454Y Page 36 of 67

EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
SIL	m n t	et are all and and	me me		
Y.5.3	Water spray test	all the state	N/A		
Y.5.4 📣	Protection from plants and vermin	with which while while	N/A		
Y.5.5	Protection from excessive dust	when the state	N/A		
Y.5.5.1	General	white white white white w	N/A		
Y.5.5.2	IP5X equipment	i i stat	N/A		
Y.5.5.3	IP6X equipment	see miner white white wh	N/A		
Y.6	Mechanical strength of enclosures	LA A A	N/A		
Y.6.1	General	white white white white	N/A		
Y.6.2	Impact test	······································	N/A		

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Page 37 of 67 EN IEC 62368-1

Clause F

Requirement – Test

Result – Remark

Verdict

(Audio	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	
	nt Form No: EU_GD_IEC62368_1E	Fet white white white whi	
	nt Originator: UL(Demko) tachment: 2021-02-04	WALLEY WALTER WALTER WALTER	WALL NAME
	© 2021 IEC System for Conformity Testing and Co Geneva, Switzerland. All rights reserved.	ertification of Electrical Equipme	ent
in me	CENELEC COMMON MODIFICATIONS (EN)	LIFE WALTE WALT WALT WA	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 and those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	
	 Add the following annexes: Annex ZA (normative)Normative references to interr corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code dest 	and and the ret of	EF ON
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	efinitions:	N/A
3.3.19.1	 momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information. 	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa ² s.	NUTE WALTER WALTER WALTER WA	N/A
	$E = \int_{0}^{T} p(t)^2 \mathrm{d}t$	WALTER WALTER WALTER WALTER	



Reference No.:	WTF22D10209454Y

Page 38 of 67

	EN IEC 62368-1	in which which where	
Clause	Requirement – Test Result – Remark		
MA	with any and the set	at atter with which	me me
3.3.19.4	 sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>Eo</i>, typically the 1 kHz threshold of hearing in humans. Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB. 	WALTER WALTER WALTER WAL	N/A
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$ Note 2 to entry: See B.4 of EN 50332-3:2017 for additional	et whitet whitet whitet	source source
Not all	information.	the state of the	inter mine
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997- Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels.	AN WALTER WALTER WALTER	N/A
WALL W	Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	MALTER SURFICE SURFICE S	ni wni ret ret
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person , that:	white white white white	and and and and and and and and and and and and and and and and and
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and 	WALTER WALTER WALTER	AND AND
	– has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	ALTER WALTER WALTER WA	et wn ret wn
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	t united whited whited	WALTER WALT
	Personal music players shall comply with the	20. 0	



Page 39 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
sur	NOTE 1 Protection against acoustic energy sources from	and white white white	mer m	
. let	telecom applications is referenced to ITU-T P.360.	1 A A	JEK JEK	
whitek white	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	WALTER WALTER WALTER	anti anti a	
NEX WALLEY	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to:	et watter water water	et white white	
dt .	– professional equipment;	when we we get	tet set	
where where	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	neres white white we	Tet worth whit	
et white	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music 	* MOLIFEX MOLIFEX MOLIFE	t whitet white	
whitek whi	players: • long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	Whitek whitek whitek	NATES NATES W	
ret white	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	and white white white	et waitet wait	
WALTER	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	WHITE WHITE WHITE	white white	
LIEX MIL	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	and white white w	TEK NI LIEK WAL	
et white	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	2 vouret waitet vour	et white white	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	maret united united	N/A	
ALTER WINTER	 The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is 	AN AN ANALISK WALTSK	ntret untret un ret un ret unit	



Reference No.: WTF22D10209454Y

Page 40 of 67

	EN IEC 62368-1	for the she she	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
aller .	AT A A A	a stand and and a	no me
10.6.2	Classification of devices without the capacity to	o estimate sound dose	N/A
10.6.2.1	General	Not such equipment	N/A
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332- 3. For classifying the acoustic output $L_{Aeq, T}$,	White white white	A STERN
	measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	while while while w	iet wiret.
	For music where the average sound pressure (long term $LAeq, \tau$) measured over the duration of	at at at all	t Jet a
	the song is lower than the average produced by	The spirit white white	m. m
	the programme simulation noise, measurements	i de st	it i
	may be done over the duration of the complete	at the ster street	and and
	song. In this case, <i>T</i> becomes the duration of the song.	when when we we	Jet Jet
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq, \tau}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning	white white white white	et Niret
	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	ster white white white	was let was
WALTE	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	2- INTER INTER WALFER W	white south
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	at at set	N/A
	RS1 is a class 1 acoustic energy source that does	White white white white	- 24
	not exceed the following:	1 1 1 1	t set
	- for equipment provided as a package (player	still inite white white	11 - 11
	with its listening device), and with a proprietary connector between the player and its listening	the state	dt .
	device, or where the combination of player and	of the street out	and and
	listening device is known by other means such as	m m m	
	setting or automatic detection, the $LAeq, \tau$ acoustic	the states of the set	JE JE
	output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	white white white wi	et set
	 – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that 	onife white white white	- int
	allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be $\leq 27 \text{ mV}$ (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme	NET WAITER WAITER WAITE	JUNY JU
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	et white white white	uner Juner
	- The RS1 limits will be updated for all devices as per 10.6.3.2.		at at



Page 41 of 67

EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	t and and	N/A		
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the $LAeq, \tau$ acoustic output shall be $\leq 100 \text{ dB}(A)$ when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be $\leq 150 \text{ mV}$ (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme exercised in EN 50322-1	and an	NUT SURVEY UN SURVEY UN SURVEY UNITED SURVEY UNITED SURVEY UNITED SURVEY UNITED		
10.6.2.4	simulation noise" as described in EN 50332-1.	with white with	N/A		
NULLE	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	whitet whitet whitet	ALTER WILLER		
10.6.3	Classification of devices (new)	At 1 At .			
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A		
10.6.3.2	RS1 limits (new)	14 24 24	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 <i>L</i>Aeq,<i>r</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. 	and the and the and the and	AND		
10.6.3.3	RS2 limits (new)	et which which which	N/A		
WALTER W	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player	wifet whitet whitet	uset outset		

Reference No.: WTF22D1020

instruction manual.

Clause

10.6.4

10.6.4.1

10.6.4.2

EN IEC 62368-1	LITE WITT WALL WALL	the th
Requirement – Test	Result – Remark	Verdic
with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be \leq 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be \leq 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	antifet antifet antifet antifet	ALTER MAILER
Requirements for maximum sound exposure	the water water when	N/A
Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A
Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard.	and a second second	N/A
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	whitet whitet whitet w	et wiret

The elements of the instructional safeguard shall be as follows: LIEC 60417-6044 – element 1a: the symbol Z(2011-01)- element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording An equipment safeguard shall prevent exposure Waltek Testing Group Co., Ltd. http://www.waltek.com.cn

Alternatively, the instructional safeguard may be given through the equipment display during use.



Page 43 of 67

- 2m.	EN IEC 62368-1	Lite white white white	In In
Clause	Requirement – Test	Result – Remark	Verdict
and text and	 of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time. NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. 		
WALLER W	A skilled person shall not be unintentionally exposed to RS3.	a tret miret antifet w	NUTER WALTER
10.6.5 10.6.5.1	Requirements for dose-based systems General requirements	N/A	
	 Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with 	and and an and an area	antire antires
NUTER NAN	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	where where white white	Tek Mutek
10.6.5.2	Dose-based warning and requirements 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	white white white	N/A



Page 44 of 67

	EN IEC 62368-1	the water water water	
Clause	Requirement – Test	Result – Remark	Verdict
antirek an	acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	antiet aniet antiet an	NITEX WALTER
10.6.5.3	Exposure-based requirements	at the state sta	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.	whitek whitek whitek	white white
	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.	Tet whitet whitet white	et worster wo
	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.	anti ant antist and	Tet Shiret was
UNLIFEK	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	the tit stat a	strek whitek
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
	Corded listening devices with analogue input With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be \ge 75 mV.	Not such equipment	
10.6.6.2	and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input	an a t	N/A
10.0.0.2	With any playing devices with digital input "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	water while waite	STEEL SUITER



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Reference No.: WTF22D10209454Y

Page 45 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.6.6.3	Ievel control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the LAeq, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS. Cordless listening devices In cordless mode,		N/A	
WALTER WA	- 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 <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	White an is an is a sub-	white whitek	
10.6.6.4	Measurement method Measurements shall be made in accordance with	WAITE WAIT WALL	N/A	
<u></u> 3	EN 50332-2 as applicable. Modification to the whole document		P	



Reference No.: WTF22D10209454Y	
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Page 46 of 67

		EN IEC 62368-1					
Clause	Requiremen	equirement – Test Result – Remark		Verdict			
SIL	24. 24.		de la compañía de la comp	18 50	the second	in me me	- an-
	Delete all th list:	e "country" note	es in the refe	erence docun	nent according	to the following	K Pt
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1st
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	and a
	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	it ex wint
	5.4.2.3.2.	4 Note 2	5.4.2.5	Note 2	5.4.5.1	Note	et alte
	Table 13						-540
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	white .
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	INCTEX OU
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	Tex whit
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	* white
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NUTEX .
	Y.4.5	Note					si it
MALA	N 7			1951 - 1	w av .	1 10 A	in an
	Modificatio	n to Clause 1					Р
WALL .		owing note: use of certain subst			whitek whi	White whi	P -
	Modificatio	n to 4.Z1					P



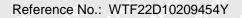
Page 47 of 67

	EN IEC 62368-1	ite intra white when w	
Clause	Requirement – Test	Result – Remark	Verdict
where .	and the second s	it with white white white	201-
	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	i at at at a	
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
1001	Add the following to c) and d) in table 39:	No such radiation from the	N/A
10.2.1	For additional requirements, see 10.5.1.	equipment.	1 - 2m



Page 48 of 67

	EN IEC 62368-1	ist into which which	
Clause	Requirement – Test	Result – Remark	Verdict
- sur-	We want the state of the second	and the work which	mer m
	 Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. 	antifet antifet antifet antifet	N/A
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	Antiek antiek antiek a	ALTER UNLITER
	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.	WATER WATER WATER	antifet antifet
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	fer white white white	et whitek whi
F JEF	13 May 1996.	- it it it	
9	Modification to G.7.1		N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	Whitek whitek whitek	N/A
10	Modification to Bibliography		P



Page 49 of 67



man	Mr. Mr. W.		EN IEC 62368-	Lifet white white white w	2. M.
Clause	Requirement – Test	MALIN	when we we	Result – Remark	Verdict
an an	n n n		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the state with white white	n.
dt.	Add the following not	tes for t	he standards indicated	1:	P
MALTER WALTE	IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60364 IEC 60664-5 IEC 61032:1997 IEC 61508-1 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-6	NOTE NOTE NOTE NOTE NOTE NOTE NOTE	Harmonized as EN 601 Harmonized as HD 602 Harmonized as EN 603 some parts harmonized Harmonized as EN 606 Harmonized as EN 616 Harmonized as EN 615 Harmonized as EN 615 Harmonized as EN 615 Harmonized as EN 615	69-2. 09-1. I in HD 384/HD 60364 series. 01-2-4. 64-5. 32:1998 (not modified). 08-1. 58-2-1. 58-2-4.	antitet av
AND THE WALTER	IEC 61643-1 IEC 61643-21 IEC 61643-311 IEC 61643-321 IEC 61643-331	NOTE NOTE NOTE NOTE NOTE	Harmonized as EN 615 Harmonized as EN 616 Harmonized as EN 616 Harmonized as EN 616 Harmonized as EN 616 Harmonized as EN 616	43-1. 43-21. 43-311. 43-321.	ANTER AN
11	ADDITION OF ANNE	EXES			Р
ZB	ANNEX ZB, SPECIA	L NATI	ONAL CONDITIONS	(EN) (Ch. 1977)	P
	connection to other e if safety relies on con if surge suppressors network terminals and marking stating that t connected to an earth The marking text in th be as follows:	aclause quipme quipme nection are con d acces he equi ned main ne appli atets stil som giv liitettäv iaan" et må til	the following is nt type A intended for nt or a network shall, to reliable earthing or nected between the ssible parts, have a pment shall be ins socket-outlet. cable countries shall kprop skal tilsluttes en er forbindelse til ä suojakoskettimilla koples jordet	Anticet white white white	N/A
4.7.3	complying with BS 13	formed 363, and vant clau	using a socket-outlet d the plug part shall be uses of BS 1363. Also		N/A



Page 50 of 67

	EN IEC 62368-1	in the mar and	10. A.
Clause	Requirement – Test	Result – Remark	Verdict
in the		the share when a start when	In the
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the	No high touch current measured.	N/A
24.	limits of 3,5 mA a.c. or 10 mA d.c.	the water water with	21 22
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	et white white white	unt unt
	For separation of the telecommunication network from earth the following is applicable:	white white white wh	et unet
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	untre white white white	NAL V
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 	L at at at	الله الملك كاند المحارث
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 	While which which w	Set white
	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	where where where where w	win fet wint
	• 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),	whitek whitek whitek white	W LIEK W
	and	at the test state	NUTEX INT
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 	white white white	TEN DINTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	ALTER WALTER WALTER WALTE	t vouret s
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	t ret ret united	NUN IL SUN
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 	white white with a	iet whitet



Page 51 of 67

24	EN IEC 62368-	the the the	24. 14.
Clause	Requirement – Test	Result – Remark	Verdict
White .	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	et and and and	SING WIT
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	SUPER SUPER SUPER SUPER SUPER	net whitek
EK WALTER	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 waiter waiter water	wine ex win
5.5.2.1	Norway	the set set	N/A
	After the 3rd paragraph the following is added:	while white white	Mr. M.
untite un	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	white white white w	er ret
5.5.6	Finland, Norway and Sweden	No such resistors.	~/ [^] N/A
	To the end of the subclause the following is added:	at the suret wiret	MALT SK WALT
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	whitet whitet whitet	minet summed
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	ster watter watter watter	white white
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WHITEE WALTE WALTE W	NEL WAL
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment type A, the following is added: 	set white white white	N/A
5.6.4.2.1	France	1 10 50 Sto	N/A
	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	white white white	rint Niret
5.6.5.1	To the second paragraph the following is added:	all whit whit whit	N/A
yoniset.	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	et whitet whitet whitet	smirt smir



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	Reference No.:	WTF22D10209454Y
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Page 52 of 67

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- Sale	No. 1 And	white white white	-m m
5.6.8	Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug	MALIEK WALTER WALLER	P
et united	is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	eret white white wh	et and et and
5.7.6	Denmark	m. m. m.	Р
	To the end of the subclause the following is added:	whilet whilet whilet	white white
INLIER WI	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	MUTCH WALTER WALTER W	NITE MILE.
5.7.6.2	Denmark	THE NUTER MUTER ANY	P
	To the end of the subclause the following is added:	t set set set	t meret mer
	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.	whit whit whit	Tet Tet
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.	Set of antiter we have a set	ante vinte vinte
	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.	whitet whitet whiter w	Tet w tret w
	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 would would would	while while
	"Apparatus connected to the protective earthing of the building installation through the mains	WALTER WAITE WALTE	white white
	connection or through other apparatus with a connection to protective earthing –	ALTER WALTER WALTER W	it's port of
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television	set water water wat	with the second
	distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	wonniek wonnet wound	whit whit
	NOTE In Norway, due to regulation for CATV-installations, and	with white white w	n. In



Page 53 of 67

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- m.		and the second state and the	an.
	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.	NUTER INTER MUTER WATTE	* WALTER.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	They while while while	NALTEX NI
	 "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." 	at whitet whitet whitet white	e et would
nt. white	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	antifer annifer annifer annifer a	VAL VAL
3.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph:	No external circuits.	N/A
	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.	se mut worth worth t	NIEK WAL
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	<⊡ N/A
B.4	The following is applicable: To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	mains	
G.4.2	Denmark	Not directly connected to the	[∞] N/A
	 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- 	mains	ANTER WAS
	outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	sure with sure and	+ suntrek



Page 54 of 67

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



Page 55 of 67

20	EN IEC 62368-1	is the way way we	1 . S.
Clause	Requirement – Test	Result – Remark	Verdict
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	and and and an inter an inter	N/A
G.7.2 ZC	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A. ANNEX ZC, NATIONAL DEVIATIONS (EN)	White white white white	N/A
<u> </u>			14
10.5.2	GermanyThe following requirement applies:For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig,	No CRT within the equipment.	N/A
ZD	Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I		Р

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Page 56 of 67

	AND AND A F	N IEC 6236	8-1		
Clause	Requirement – Test	In .	Result – Rem	ark	Verdict
Mar	Mr. M. St. At.		atter water and	in which wh	- Julie
	Type of flexible cord		Code desig	nations	
			IEC		201

2	PVC insulated cords		I
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
ŝ	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
	Rubber insulated cords		
	Braided cord	60245 IEC 51	H03RT-F
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
	Cords having high flexibility	•	
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз _{RV4-н}
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
	Cords insulated and sheathed with halogen- free thermoplastic compounds		
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



Page 57 of 67

20	the state	EN IEC 62368-1	26. 2.
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classification of electrical energy sources							
Supply	Location (e.g.	Test conditions		Parame	ters		ES	
Voltage	circuit designation)		U (V)	l (mA)	Type ¹⁾	Additional Info ²⁾	Class	
9Vdc	The EUT is	Normal	<60Vdc	* - 15	SS		ES1	
	designed to be supplied by	Abnormal	man in	an a	n 4	20	(Declar ation)	
	external power source	Single fault – SC/OC	STER AL	st	TEX-	et white	MULLEY,	
9Vdc	Wireless output	Normal	<60Vdc	7.	SS	DC	ES1(De	
		Abnormal	IL TUTE	White whi	141	w. w	claratio n)	
	mire antie an	Single fault – SC/OC		JEK _ NUEK	and text	miner one	EX WILL	

Supplementary information:

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

3) Test Conditions:

Normal –Full load and no load.

Abnormal - Overload output

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Workin	g voltage measu	rement				N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)		Comment	ts
-me me me		\$.5 ^{\$\$} .5	et intre in	put in	. "the	m
- JEt JIEt MITER JAY	in which when	24. 24		at a	y y et	Set .
Supplementary information:						
	an in	w w			. A.	15

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Method			ISO 306 / B50	me me		
Object/ Par	t No./Material	Manufacturer/trademark	Thickness (mm)	T soften	ing (°C)	
-m n		at the state of the	white when when	- m-	- 2m - 2	
Supplemen	tary information:			•		

5.4.1.10.3	TABLE: Ball	pressure test of thermopla	stics	S. S. N	NUTE WALT WAT	-sh	N/A
Allowed imp	pression diame	ter (mm)	:	≤ 2 m	m	F .5	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Impi diame	ression ter (mm)



1

Reference No.: WTF22D10209454Y Page 58 of 67

			EN IEC	62368-1				
Clause	Requirement –	Test	aur. m	20.	Result	– Remark	de	Verdict
Mar	m. w. s		A 4	8 S	× , 5	in the st	the she	All.
- 1	let set 3		nere way	20	20		the state	* - A
Suppleme	ntary information:							
it i	et set se	alle and	it when	In.	20	1 1	· A	de .
9. V	all all	- 20		1	10	18 S		and an

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:Up (V)Urms (V)Freq1 (kHz)Required cl (mm)ClE.S.2 (V)Required cr (mm)							cr (mm)	
Mr. Mr. Mr. L. A.		-		IN THE IN	ne - n	en - auc	- T.	201-
Supplementary information:								

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

5.4.4.2 TABLE: Minimum	distance through insu	lation		N/A
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
-net whit whit wh	an the	1+ - 1+	Stat - State	UP JULY
Supplementary information:				
*See also sub-clause 5.4.4.9	5 ⁴⁴		aller of	in which we

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz						
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
	# #	-51	er nur	alter where	-m. m	
Supplementary information:				<u></u>		

5.4.9	TABLE: Electric strength tests	NITER MUTER WAITE V	untit water water	N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	a share the set	at marter aparter mouth	white white a	1. m. 1
There while	E watt with wat with	- 1 1 1	- Jet Jet a	itt inthe in
Basic/suppl	ementary:	White white white	me in m	4 <i>1</i> 5 <i>1</i> 8
2 miles	when when when the	the state states	THE WALTE WALT	mun - mur
Reinforced:	white white white white w	the suit we want	at at at	Jet Jiet
	at the left of	SE - MITEL WALTE WAT	- me me	24
Routine Tes	sts: un un un	the state	t stet wiret of	LIER WILLE W

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn



Reference No.: WTF22D10209454Y Page 59 of 67

	EN IEC (2368-1
Clause	Requirement – Test	Result – Remark Verdict
- she	Mr. M. The second second	the star with a star when
- 1	The street wires white white -white	with the - the set of - fift
Suppleme	ntary information:	
Ster of	ret white while white white whe	at at all the tot what what

5.5.2.2	TABLE	: Stored discharge o	on capacitors	d At	at at	_ <n a="" th="" ≤<=""></n>
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class
	de la	at the the	Normal	m. m.		1 "A
mere way	m	when when a	Single fault: SC/ OC	WALTER WALTER	watter wat	with a
Supplemer	ntary infor	mation:	·			
X-capacitor	s installe	d for testing are:	t the strain	St. Mr. 4	n m	In a

[] bleeding resistor rating:

[] ICX:

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

5.6.6	TABLE: Resistance of	protective conduc	tors and termina	tions	N/A	
Location	-	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
75 .0		- Mon				
Supplemen	ntary information:					
Supplemen		w at th	~ ~			

5.7.4	TABLE: Unearthed acce	ssible parts				N/A
Location	Operating and	Supply		Parameters		ES class
	fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
-	Normal	Jet - Nile	white Junit.	me -m	n 20	
et white	Abnormal: overload	at state	LIFE MUTER N	Liet whitek w	TET-	NILL
WALTER	Single fault: SC/OC	50 <u>-</u> 5	at stat s	at marter and	X	WINLTER
Suppleme	entary information:					•
SC= short	t circuit; OC= open circuit	1. 18	+	NUTE MATE	and a	n n

5.7.5 TABLE: Earthed accessible conductive part						
Supply voltage (V)	The mile whit whit whe whe we -					
Phase(s)	[] Single Phase; [] Three Phase: [] Delta [] Wye					
Power Distribution System	[]TN []TT []IT					
Location	Fault Condition No in IECTouch currentComme60990 clause 6.2.2(mA)	nt				

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Reference No.: WTF22D10209454Y Page 60 of 67

2hr		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
de	The the second s	Let the the with which is	les an .

-- -- -- -- -- Supplementary Information:

5.8	TABLE	ABLE: Backfeed safeguard in battery backed up supplies									
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class				
- 50	STER I	LIE JUIE	more that we	2			Set The				
Supplementary information:											

6.2.2	TABLE: Power source	e circuit classif	ications			PS class PS class (Declaration) PS1 PS1
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
	Input circuits	LIEK WALLEY V	The south	mi - m	win s	
mer -m	Wireless output	8.33	1.52	12.6	3s	PS1 S
NUTEX MALIN	Wireless output (CBB1 SC)		0	0	3s	PS1
set and	Wireless output (C21 SC)	Jaco John	0	0	3s	PS1

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

6.2.3.1	6.2.3.1 TABLE: Determination of Arcing PIS								
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		ng PIS? es / No			
The spir	MALL WAL	m. m.	st st	10t 50t	. I.	ST. ST			
Supplemer	ntary information:								

6.2.3.2	2.3.2 TABLE: Determination of resistive PIS							
Location		Operat	ing and fault condition	Dissipate power (W)	Arcing PIS? Yes / No			
the second	n m r	1	10t - 10t	MITER MITE MAIN W	n in in			
Suppleme	ntary informatio	on:						

Ś	8.5.5	TABLE: High pre	essure lamp	the state of the	- Set Set	120	N/A
Ļ	Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		icle found nd 1 m Yes / No



Reference No.: WTF22D10209454Y Page 61 of 67

			EN IEC 62368-	the mit was way	
Clause	Requirement -	- Test	to the second	Result – Remark	Verdict
sur	m. m.		1 - 5 - 5	the stre water water	when when -
d.		15 - 15° - 20	1 - Sh.		1 - A

Supplementary information:

9.6 TABL	E: Tempe	rature mea	surem	ents	for wirele	ess power	transmitte	ers	Р	
Supply voltage (V)			:	9Vd	lc 🦽	State of	Set aller	NNLTE .	_	
Max. transmit pow	er of transr	nitter (W)	:	10V	Nu n	- 1h		A		
					iver and ontact		ver and at of 2 mm		eiver and at ce of 5 mm	
Foreign objects	Object (°C)	Ambient (°C)	Obje (°C)		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Steel disc	25.5	24.2	26.6	6	24.2	24.9	24.2	25.0	24.2	
Aluminium ring	25.2	24.2	26.1	15	24.2	24.3	24.2	25.5	24.2	
Aluminium foil	24.2	24.2	25.8	3	24.2	24.5	24.2	24.5	24.2	

During the tests, the temperature of the foreign object shall not exceed 70°C.

5.4.1.4, TABLE: Ter 9.3, B.1.5, B.2.6	nperature m	easurem	ents		4	STER WALTE	P
Supply voltage (V)		:	9Vdc		3	and the second	
Ambient temperature dur	ing test T _{amb}	(°C):	See below	un	M. 7.		
Maximum measured tem	perature <i>T</i> of	part/at:		7	Г (°С)		Allowed T _{max} (°C)
DC input wire	ne. me	100	57.5	d	et 5 ⁴⁴	JUEK- NU	80
PCB near U1	set set	96.3	- ale	1 1		130	
PCB near R4	- m	68.2			Jer Jule	130	
CBB1 body	63.0	me-	10 -00		105		
Wireless winding	24 1		ر 72.3 ا		NITE THE	. 19 <u>1</u>	130
Porcelain Internal enclosu	ire near wirel	ess	69.1				For ref.
Ambient		L 18	45.0	5 ^{4*}	Je Jui	mer - m	<u> 10 - 1</u>
Accessible parts	NUTET WITE	me	m. m		a at	A 1	t st
Porcelain External enclos	ure near wire	less	51.2		NUT- N	10. 4hr.	71* 1
Ambient	IET NALIE	men 1	25.0		,	at - at	<u> 50 - 5</u>
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
- white white whe			*	4			Mr. Bur.
Supplementary information	n:						
* Temperature limit for TS	S1 of accessi	ble enclos	sure accordir	ng to Tab	le 38 to be m	easured at	normal

Page 62 of 67

W. au	AN A AL	EN IEC 62368-1	me m
Clause	Requirement – Test	Result – Remark	Verdict

ambient temperature.

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 45°C.

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

B.2.5	_ Т/	ABLE: Inj	out test 🦽					Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5Vdc ¹⁾	J. T. L.	1.32	2	6.6	 	er	et - nur	Normal working, Wireless output: 5.0W,
9Vdc ¹⁾	N.L.TEN	1.4	1.5	12.6				Normal working, Wireless output: 10.0W,

Supplementary information:

¹⁾ Supply by external DC source,

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	It condit	ion tes	sts	me m m	Р
Ambient ter	mperature T _{amb} (°Č)	111			See b	pelow	_
Power sour	ce for EUT: Man	ufacturer, mo	del/type, c	outputrati	ng:	<u> </u>	and an an	
Componer No.	nt Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	
CBB1	SC	9Vdc ¹⁾	10mins	would be	MALTE		Unit shut down immedi damage, no hazard. Recoverable. Wireless output: 0Vdc	ately. No
C21	SC	9Vdc ¹⁾	10mins	Int v Int v	nur Fek Vul	NITEK .	Unit shut down immedi damage, no hazard. Recoverable. Wireless output: 0Vdc	ately. No
NTC	SC	9Vdc ¹⁾	10mins	NNUTE	whitek	Ser our	Unit shut down immedi damage, no hazard. Recoverable. Wireless output: 0Vdc	ately. No
U2 pin2-3	3 SC	9Vdc ¹⁾	10mins	NITER W	LTEX V	unitek Jek	Unit shut down immedi damage, no hazard. Recoverable. Wireless output: 0Vdc	ately. No
Wireless Output	OL	9Vdc ¹⁾	1hours 05mins	WALTER W	WALTER MATTER	at vinite vinite	Wireless output max. ov 1.52A, and unit shutdov Recoverable when fault and no hazards. PCB near U1: 102.4°C Wireless winding:83.0° Ambient:40°C Porcelain External encl near wireless winding:5	vn at 1.52A t removed C C losure

Lin S E



damage, no hazard.

Reference No.: WTF22D10209454Y Pag

Page 63 of 67

				EN	IEC 6236	8-1		
Clause	Require	ment -	- Test	mati	-24	Resul	t – Remark	Verdict
Whitek N	NUTER MINI	set ou	o ret watte	ountifet .	uniter vi	the set	Ambient:25°C Wireless output:	8.33Vdc,
Wireless	s S	SC	9Vdc ¹⁾	10mins	See - Mr	The .	Unit shut down i	mmediately. No

it when	NIT IN	t stret mi	ex units	+ whit	er whiten w	Recoverable. Wireless output: 0Vdc
Supplement	ary information	:				
	external DC so		NAL	m.	24. 24.	i s at the
Test table is	s provided to re	cord abnormal	and fault	conditio	ns for all ann	licable energy sources includi

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

1) SC: Short-circuited; OL: Overloaded;

Output

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: Porcelain enclosure: 81°C

N/A
_
white
Reverse
harging Irrent (A)
<u> 1</u> 2
tion
24
State .
t



Verdict

Reference No.: WTF22D10209454Y

Page 64 of 67

m	Mr. In the	EN IEC 62368-1	ŝ
Clause	Requirement – Test	Resu	lt

lt – Remark

M.4.2	TABLE: battery	Charging sat	feguards for	equipment co	ontaining a s	secondary lithium	N/A
Maximum	specified	charging voltag	je (V)			and man	
Maximum	specified	charging currer	nt (A)			* with with	
Highest s	pecified ch	arging tempera	ture (°C)		ni,		
		arging tempera				MITE MAILE WA	
Battery	_	Operating		Measurement	t	Observatio	on
manufacturer/type		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Lowest sp	ecified cha	arging temperat	ure:	t t	Set 5	let out and a south a	men 1
- Lifet and	EX WALTER	Normal	Whater W	nt the	VIII _ VIII	- The surfet of	JEX N
		Abnormal-		and a	U.S. THE		4
		Single fault – (SC/OC)	san - set	marek wa	Set whitet	N. Ser WALTE WALT	white
Highest s	pecified cha	arging temperat	ture:	1 1	t set	the the star	- MLTE
- Ster .		Normal	at white	ante ante	white wh	The state	STEK .
		Abnormal-		17 ⁶⁶ 117 ⁶		- and and a	
		Single fault – (SC/OC)	1. 	et suret	LIE WALT	UNITE WALFER WAY	ie wai
		and the second se					

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 inter	nded for inte	rconnectio	n with build	ling wiring	(LPS)	P
Output Circuit	Condition			I _{sc} (A)	S	(VA)
	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
whitek w	Normal	9.0	5s	1.52	8	12.66	100
	Single fault – R20 SC /OC	0 50	5s	0	8	0 500	100
Wireless Output	Single fault – C38 SC /OC	0	5s	0	N 18 . N	0	100
	Single fault – U3 Pin 2-6 SC /OC	0	5s	0	S & 8	0	100

SC = short circuit, OC = open circuit

*: Output shutdown immediately, recoverable, no hazard

C



Verdict

Reference No.: WTF22D10209454Y

Page 65 of 67

an an		EN IEC 62368-1		
Clause	Requirement – Test	Mr. m. m.	Result – Remark	Å

T.2, T.3, T.4, T.5	TABLE: Ste	eady force te	st			at not the state while
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Internal components (T.2)	MITEK MITEK	NITER NN	Figure V.1 and Figure V.2	10	5 VINLEY	No reduction the clearances and creepage distances
Enclosure top(T.5)	porcelain*	See table 4.1.2	t	250	white w	Enclosure remained intact, no crack/ opening developed
Enclosure side(T.5)	porcelain*	See table 4.1.2		250	INLIES INT	Enclosure remained intact, no crack/ opening developed
Enclosure bottom (T.5)	porcelain*	See table 4.1.2	м. -	250	State 5 State	Enclosure remained intact, no crack/ opening developed

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

Т.6, Т.9 Т.	ABLE: Impa	ct test	t stet	NOT WE WE WE
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	porcelain*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	porcelain*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	porcelain*	See table 4.1.2	1300	Enclosure remained intact, no crack/ opening developed. No hazards.
Bottom	vinformation	the super sup	-29.	developed. No hazards.

Supplementary information:

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

Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	porcelain*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	porcelain*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	porcelain*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.

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Reference No.: WTF22D10209454Y Page 66 of 67

F

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

T.8 T.	ABLE: Stress	s relief test	The more	n. n	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
	1 - A	d- dt	JIE JN	an ann.	my my my my
Supplementary	information:				
*Test was perfe	ormed on pro	duct with each so	urce listed in t	able 4.1.2.	ne m m

X TABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
the set set with	Intre-water war w		A 10- 10 5			
Supplementary information:						
at at at 5th	with mill work w	S	a at at at			



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*

Reference No.: WTF22D10209454Y

Page 67 of 67

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

4.1.2 Object / part No.	TABLE: Critical components information P						
	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹		
Wireless coil	Shenzhen Cic Intelligent Technology Co., LTD	50*10TS*6.5U H	6.5±10%µH at 100KHz, 130°С, N1: Ф1.0mm x 10Ts,	IEC/EN IEC 62368-1	Tested with appliance		
PCB	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL		
porcelain enclosure	Interchangeable	Interchangeabl e	Min thickness: 2.2mm,	IEC/EN IEC 62368-1	Tested with appliance		

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



Page 1 of 3 **Photo Documentation** Report No.: WTF22D10209454Y



Figure 1: Overall view



Figure 2: Overall view

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Page 2 of 3

Photo Documentation

Report No.: WTF22D10209454Y



Figure 3: Internal view



Figure 4: Internal view



Page 3 of 3 Photo Documentation Report No.: WTF22D10209454Y

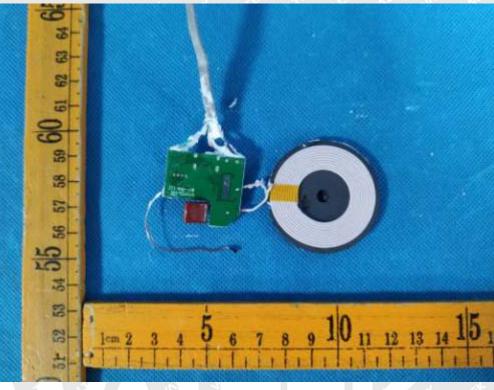


Figure 5: PCB view

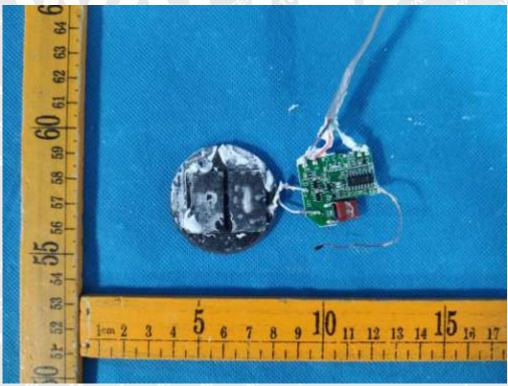


Figure 6: PCB view

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

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