



TEST REPORT

Reference No	WTF22D06125210Y
Reference No	VV 1 E Z Z L) UO 1 Z G Z 1 U T

Applicant: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... : 109979

Address: : --

Product : Foldable wireless charger

Model(s)..... : MO6565

Total pages.....: 68 + 4 pages of photo documentation

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample ... : 2022-06-22

Date of Test 2022-06-22 to 2022-10-12

Date of Issue : 2022-10-13

Test Result: Pass

Remarks:

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

Prepared By:

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oapslu

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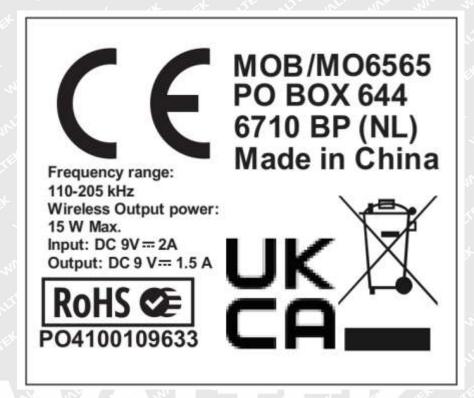


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Test item description	: Foldable wire	eless charger
Trademark	: МОВ	
Model and/or type reference	: MO6565	
Rating(s)	: Input: 9Vdc, Output : 9Vd	
Remark:		STEET WITE WALL MALL MALL WILL WILL
Whether parts of tests for the produ	uct have been sub	contracted to other labs:
☐ Yes	No	
If Yes, list the related test items and	d lab information:	
Test items:		
Lab information:	TEX STEX ON	the water may any any any
Summary of testing:	24	* If let let lift nite mile mile un
Tests performed (name of test ar	nd test clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020) Mr. 20.	No. 77, Houjie Section, Guantai Road,
The submitted samples were found the requirements of above specifications.		Houjie Town, Dongguan City, Guangdong, China
☐ The product fulfils the requirement	ents of EN IEC 62	368-1:2020+A11:2020.
applicable limit according to the swithout applying the measuremen "accuracy method").	y the IEC standa specification in th it uncertainty ("si	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 ed by the standard or client, or if national accreditation
requirements apply)	EK WHITE WHI	ed by the standard of chefft, of it flational accreditation
OD-5014 for test equipment and applicable. IEC Guide 115 provides guidance	are calculated by oplication of test me on the applicatio	the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of n of measurement uncertainty principles and applying
measurement uncertainty for measurement.	asurements is no	nin IECEE scheme, noting that the reporting of the test standard or the test standard or
Calculations leading to the reporte the testing.	d values are on f	ile with the NCB and testing laboratory that conducted



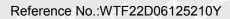
Copy of marking plate:



Remark:

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





	4		
N.		<i>)</i>	

TEST ITEM PARTICULARS:	
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: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ☑ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	☐UK: 13 A; Others: 16 A; Location: ☐ building ☐ equipment ☑ N/A
Equipment mobility	☐ 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:	40°C ☐ Outdoor: minimum°C
IP protection class	⊠ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV _{L-L} ⊠ not AC mains
Altitude during operation (m)	⊠ 2000 m or less □m
Altitude of test laboratory (m)	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠0.25kg



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POSSIBLE TEST CASE VERDICTS:	and the same of th
- 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:	THE THE THE THE THE
Date of receipt of test item	2022-06-22
Date (s) of performance of tests	2022-06-22 to 2022-10-12
GENERAL REMARKS:	LIER MITE MITE WALL WALL WALL WALL
Throughout this report a ☐ comma / ☒ point is u	used as the decimal separator.
Product Description 1. The EUT covered by this report is a Foldable wire via Type C port supply.	less charger. It is supplied by external power supply or
The manufacturer specified maximum ambient ten including 2000 m above sea level.	nperature is 40°C. The specified altitude is up to and
Model Differences N/A	EX UNITEX WALTER WALTER WALTER WALTER WALTER WALTER
Additional application considerations – (Considerations) N/A	erations used to test a component or sub-



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Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part	Body Part Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2: >15, <100 Watt circuits	Enclosure	N/A	N/A	N/A
PS2: >15, <100 Watt circuits	PCB, The other components/materials	N/A	See 6.2	N/A
7	Injury caused by hazardous s	substances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A ct state site soil	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	Energy Source Body Part Safeguards			
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED for indicating	Ordinary	N/A	N/A	N/A



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ENERGY SOURCE DIAGRAM

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

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

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS



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" Me	m a	IEC62368-1	me m
Clause	Requirement – Test	Result – Remark	Verdict
Sept.	The tree of the	- The the title with the	The Mr.
4	OFNEDAL DEGLUDEMENTO		

4	GENERAL REQUIREMENTS		P.
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	W 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	MUTE WALTER
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	n P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
1.4.3	Safeguard robustness	See below	TP ,
4.4.3.1	General	2 24 24	Р
4.4.3.2	Steady force tests	(See Annex T.2and T.4)	IF Pari
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	the lift lift niter and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
ry Mer	Glass impact test (1J)	LIFER MITER MALIE WALLE	N/A
jt _{6}*	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	L A A A	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.3,4.4.3.4, 4.4.3.8, no safeguard damaged.	WP Willer
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 let let is	Et Pite
4.5.1	General white whit	No explosion occurs during normal/abnormal operation and single fault conditions	P



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	IEC62368-1	or the the to	77.
Clause	Requirement – Test	Result – Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors	See below	Р
EK NITE	Fix conductors not to defeat a safeguard	at let let let	CIEN P.
4,	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socke	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	TEX JEX STER WITE	N/A
4.8	Equipment containing coin/button cell batteries	sur m. m. 20,	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	ex sex sex sizer o	N/A
4.8.3	Battery compartment door/cover construction	any any any	N/A
JALTE. S	Open torque test	THE STEE STEEL STEEL WIT	N/A
4.8.4.2	Stress relief test	The August Augus	N/A
4.8.4.3	Battery replacement test	ALL STITE SINITE	N/A
4.8.4.4	Drop test	7 7 7	N/A
4.8.4.5	Impact test	THE SUITE WITH WALTER	N/A
4.8.4.6	Crush test	70 × 34	N/A
4.8.5	Compliance	ek witer white while wh	N/A
At .	30N force test with test probe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
mr. m	20N force test with test hook	MITE WALL WALL WALL	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р
4.10	Component requirements	inter with mot me	N/A
4.10.1	Disconnect Device	A SH SEK SEK	N/A
4.10.2	Switches and relays	in mure mure mure of	N/A
- (1)	ELECTRICALLY CALIFER IN HIDY		(E) 100 (E)
5	ELECTRICALLY-CAUSED INJURY		√l/P
5.2	Classification and limits of electrical energy sou	irces	Р
5.2.2	ES1, ES2 and ES3 limits	(000 00000 101111 50)	Р
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



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Trequirement – Test	Nesuit – Nemaik	Verdict
5.2.2.7	Audio signals	The American	N/A
5.3	Protection against electrical energy sources	LITER OLITER SOLITER MOLI	₩.P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	TEL TEL STEE STEEL	MILIEP
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	by the sur in	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	IER MULTER MULTER MULTER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	Р
iner in	Accessibility to outdoor equipment bare parts	SLIER WILL WILL MILL	N/A
5.3.2.2	Contact requirements	an are the set	N/A
er, aur	Test with test probe from Annex V	LIER WALL WALL WALL	<u> </u>
5.3.2.2 a)	Air gap – electric strength test potential (V)	1 1 1 1 1 1	N/A
5.3.2.2 b)	Air gap – distance (mm)	anite with me w	N/A
5.3.2.3	Compliance	at at all of	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	of the stee	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The Life Life	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P
5.4.1.5	Pollution degrees	"Mrs. Mrs. Mrs. M.	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	NUTER WILLER WHITE	N/A
5.4.1.5.3	Thermal cycling test		N/A
5.4.1.6	Insulation in transformers with varying dimensions	NITE WILL WILL WILL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	a at at at	N/A
5.4.1.8	Determination of working voltage	THE WALL WE VI	N/A
5.4.1.9	Insulating surfaces	- at let let i	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	and and and an	N/A
5.4.1.10.2	Vicat test	WILL MULL MULL MULL	N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	THE WALL WALL WALL	N/A
5.4.2.1	General requirements	at at all all	N/A
701 - V	Clearances in circuits connected to AC Mains, Alternative method	Mary Mary Mary Mary	N/A
5.4.2.2	Procedure 1 for determining clearance	SLIFE MILE WILL WILL	N/A



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01	IEC62368-1	Desert Desert	N/11 4
Clause	Requirement – Test	Result – Remark	Verdict
70, 7	Temporary overvoltage	Mr. Ann Mr.	
5.4.2.3	Procedure 2 for determining clearance	78 - 17 - 17 - 17 T	N/A
5.4.2.3.2.2	a.c. mains transient voltage	Wer also all	
5.4.2.3.2.3	d.c. mains transient voltage	West Williams	r
5.4.2.3.2.4	External circuit transient voltage	W. W. 20.	.t
5.4.2.3.2.5	Transient voltage determined by measurement	Life Wille MULLER MA	Z ₁
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	t SLIER MILER WALTE	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	LIER SLIER MLIER	N/A
5.4.2.6	Clearance measurement	7/1 /20	N/A
5.4.3	Creepage distances	LIER WITE WITE AN	N/A
5.4.3.1	General		N/A
5.4.3.3	Material group	er inite mail was	- m
5.4.3.4	Creepage distances measurement	A A A	N/A
5.4.4	Solid insulation	white white whi	N/A
5.4.4.1	General requirements	A STATE	N/A
5.4.4.2	Minimum distance through insulation	2 247 1	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	The Mar Mr.	N/A
5.4.4.5	Insulating compound forming cemented joints	the Tell Tell NIT	N/A
5.4.4.6	Thin sheet material	me me m	N/A
5.4.4.6.1	General requirements	THE STEEL STEEL	N/A
5.4.4.6.2	Separable thin sheet material	m. m.	N/A
Tile Mulis	Number of layers (pcs)	THE STEEL MITTER OF	N/A
5.4.4.6.3	Non-separable thin sheet material	10 24 20 2	N/A
MULL	Number of layers (pcs)	THE MITTER WATER WAY	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	· THE THE STEE	N/A
5.4.4.6.5	Mandrel test	me me	N/A
5.4.4.7	Solid insulation in wound components	THE STEE WITE	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	of the text	N/A
y Jex	Alternative by electric strength test, tested voltage (V), K_R	t it it is	N/A
5.4.5	Antenna terminal insulation	White and whi	N/A
5.4.5.1	General	J. J. J.	N/A

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20.	IEC62368-1	The state of the state	20, 2
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.0		EL MULL MULL MULL	40
5.4.5.2	Voltage surge test	* * *	N/A
5.4.5.3	Insulation resistance (MΩ)	WHILE AND WALL	N/A
LET I	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	Write Murit Murr. M	N/A
5.4.7	Tests for semiconductor components and for cemented joints	THE WALTER WALTER WAY	N/A
5.4.8	Humidity conditioning	t TEX LIEX NITE	N/A
CIER AN	Relative humidity (%), temperature (°C), duration (h)	Mus and an	
5.4.9	Electric strength test	Write Mur. Mur.	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	ir, mr, mr, m	N/A
5.4.10	Safeguards against transient voltages from external circuits	EX WILER WHITEK WHI	N/A
5.4.10.1	Parts and circuits separated from external circuits	A A A	N/A
5.4.10.2	Test methods	white white white	N/A
5.4.10.2.1	General	A A A	N/A
5.4.10.2.2	Impulse test	2 200 1	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	in the second	N/A
5.4.11	Separation between external circuits and earth	MULTER MALLE MALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	SLIER MITER MAITER	N/A
5.4.11.2	Requirements	The state of	N/A
	SPDs bridge separation between external circuit and earth	NITE WALTER WALTER W	N/A
William	Rated operating voltage U _{op} (V)	EF SITE OUTE WAY	_ n, _
, et	Nominal voltage U _{peak} (V)	20, 40, 70	_
White M	Max increase due to variation ΔU _{sp}	CLIFE MILITER MALTER	anc _
all a	Max increase due to ageing ΔU _{sa}	40 70 74	- A
5.4.11.3	Test method and compliance	WILL WILL MULL	N/A
5.4.12	Insulating liquid		∠° N/A
5.4.12.1	General requirements	TIES MUTTE MUTTER	N/A
5.4.12.2	Electric strength of an insulating liquid	s at at a	N/A
5.4.12.3	Compatibility of an insulating liquid	with mill mill	N/A
5.4.12.4	Container for insulating liquid	- A - A	N/A

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6	IEC62368-1				The Marie Maria
	Clause	Requirement – Test	THE MILE MILE	Result – Remark	Verdict

5.5	Components as safeguards		N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	TEX TEX NITE WITE	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	lift unlifet waiter waite	N/A
5.5.3	Transformers	t get get liter o	N/A
5.5.4	Optocouplers	21/2 21/2 21/2	N/A
5.5.5	Relays	TER STER STEEL WIT	N/A
5.5.6	Resistors	Mr. Mr. Mr. M.	N/A
5.5.7	SPDs	THE LIER NITER MITE	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at att sait water	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	The the title	N/A
1/12 1	RCD rated residual operating current (mA)	Write Music Music Music	_
5.6	Protective conductor	at the life	N/A
5.6.2	Requirement for protective conductors	The same same	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	in the the m	N/A
5.6.3	Requirement for protective earthing conductors	of the tree street of	N/A
	Protective earthing conductor size (mm²)	The Me in in	_
الله المتأثنات	Protective earthing conductor serving as a reinforced safeguard	WILLEY WILLEY WILLEY WILL	N/A
LIFE WAL	Protective earthing conductor serving as a double safeguard	still writer writer writer	N/A
5.6.4	Requirements for protective bonding conductors	a state of the	N/A
5.6.4.1	Protective bonding conductors	in Muri Muri Mir.	N/A
LIER	Protective bonding conductor size (mm²)	- at at at	<u> </u>
5.6.4.2	Protective current rating (A)	With Mir My M	N/A
5.6.5	Terminals for protective conductors	let let let let	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	int was an an	N/A
t lik	Terminal size for connecting protective bonding conductors (mm)	TIL MALL MALL MALL	N/A
5.6.5.2	Corrosion	THE MITTER WALTER WALTER ON	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	LIFE ALTE WALL WALL	N/A



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2/1,	IEC62368-1	City Will Mar Mar .	an. an.
Clause	Requirement – Test	Result – Remark	Verdict
an	Will the state of	ET WITE WALL ONLY WE	n 14.
5.6.6.2	Test Method		N/A
5.6.6.3	Resistance (Ω) or voltage drop	writer write while whi	N/A
5.6.7	Reliable connection of a protective earthing conductor	TEX SIEK SIEK MITER	N/A
5.6.8	Functional earthing	b. M. W. A.	N/A
Well	Conductor size (mm²)	THE STEE OUTER SOUTH S	N/A
· st	Class II with functional earthing marking	2/1 2/1	N/A
Mir.	Appliance inlet cl &cr (mm)	L SLIEB WILL MULTER WIN	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	Will Will Mill Mill	N/A
5.7.2.1	Measurement of touch current	at at att	N/A
5.7.2.2	Measurement of voltage	LIFE WALTE WALTE WALT	N/A
5.7.3	Equipment set-up, supply connections and earth connections	EX SLIES INLIES ON	N/A
5.7.4	Unearthed accessible parts	71/2 1/2 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	N/A
5.7.5	Earthed accessible conductive parts	CHIEF WITE WALL WAL	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	NITE MILE	N/A
st si	Protective conductor current (mA)	7 7 7	N/A
in which	Instructional Safeguard	THE SITE MIT WAITE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	t tet itet sitet s	N/A
5.7.7.1	Touch current from coaxial cables	Mr. M. M. M.	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	MILIER WILLER WILLER WILL	N/A
5.7.8	Summation of touch currents from external circuits	LIER UNLIER WHITER WHITER	N/A
EK WALTER	a) Equipment connected to earthed external circuits, current (mA)	Et street street untreet so	N/A
MITER	b) Equipment connected to unearthed external circuits, current (mA)	- Tet Tet Tet W	N/A
5.8	Backfeed safeguard in battery backed up suppl	ies	N/A
WELLE WA	Mains terminal ES	No battery used	N/A
	Air gap (mm)	me me me m	N/A

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



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	IEC62368-1		1
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P. P. WALLER
6.2.3	Classification of potential ignition sources	See the following details.	JEE P
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	P
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	whit P *
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	ALTE P
,.t	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	P
6.4.1	Safeguard method	Control fire spread	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	White white	mar P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE MILTE WILLER WALTER W	LITE PA
6.4.3.1	Supplementary safeguards	t of let let it	P
6.4.3.2	Single Fault Conditions	Mure Anti Anti Anti	N/A
. LITER . II	Special conditions for temperature limited by fuse	LEK TEK TEK SITE	N/A
6.4.4	Control of fire spread in PS1 circuits	Aur. Aur. Mr. M.	Р
6.4.5	Control of fire spread in PS2 circuits	TEX TEX LIEX NITER	null ^e P
6.4.5.2	Supplementary safeguards	Mr. Mr. M. M.	N/A
6.4.6	Control of fire spread in PS3 circuits	th the tier with	N/A
6.4.7	Separation of combustible materials from a PIS	The The The	N/A
6.4.7.2	Separation by distance	TEX NUTER INTE UNI	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	√ N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A

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20,	IEC62368-1	ar are any	20. 20.
Clause	Requirement – Test	Result – Remark	Verdict
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
0.4.0.3.3	Openings dimensions (mm)		N/A
64924			- 4
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
ER WILLER	Openings dimensions (mm)	A CH SHE SHE	N/A
- <u>'</u>	Flammability tests for the bottom of a fire enclosure	y and any any	N/A
MUF. 1	Instructional Safeguard	the write while whi	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
ing an	Openings dimensions (mm)	WITE WILL MILL MILL	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	Mr. Mr. M. M.	N/A
6.5	Internal and external wiring	t ret ret street est	Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	MILITER O
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	Р
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to ac	dditional equipment	Р
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	P
7.2	Reduction of exposure to hazardous substance	ester attended and	N/A
7.3	Ozone exposure	W W	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
- TEX	Personal safeguards and instructions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
7.5	Use of instructional safeguards and instruction	is and made wall was	N/A
CER N	Instructional safeguard (ISO 7010)	A 18 18 18	
7.6	Batteries and their protection circuits	MULL MULL MULL MULL	Р
8	MECHANICALLY-CAUSED INJURY	. * * *	Р
8.2	Mechanical energy source classifications		P.
8.3	Safeguards against mechanical energy sources	ice with mill mill m	Р
8.4	Safeguards against parts with sharp edges and corners		



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Clause	IEC62368-1	Docult Damania	Manalist
Clause	Requirement – Test	Result – Remark	Verdict
8.4.1	Safeguards	The him he was an	Р
0.7.1	Instructional Safeguard:	MS1: Edges and corners of	Р
	instructional dateguard	enclosure	12.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	MILL P
8.5	Safeguards against moving parts	at alt tex text	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
iner in	Moving MS3 parts only accessible to skilled person	ALTER MITER WALLE WALL	N/A
8.5.2	Instructional safeguard:	on the left	N/A
8.5.4	Special categories of equipment containing moving parts	LIER WHITE WHILL WALL	N/A
8.5.4.1	General	ex lifex while while an	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	211 22	N/A
8.5.4.2.1	Protection of persons in the work cell	CHIEF WITE WALL WAL	N/A
8.5.4.2.2	Access protection override	The set	N/A
8.5.4.2.2.1	Override system	The sunt sunt	N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system	The Maria Maria Maria A	N/A
MULTER	Maximum stopping distance from the point of activation (m)	t milet milet militet mi	N/A
WALTER WAS	Space between end point and nearest fixed mechanical part (mm)	STEEL STIFF WITER SHITE	N/A
8.5.4.2.4	Endurance requirements	in the state	N/A
T WE	Mechanical system subjected to 100 000 cycles of operation	HITEL WALTER WALTE WALL	N/A
WALTER	- Mechanical function check and visual inspection	Et still still with w	N/A
	- Cable assembly	711. 10.	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	White white white whi	N/A
8.5.4.3.1	Equipment safeguards	TEX TEX STEE STEE	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	Mrs. All. An. An.	N/A
8.5.4.3.3	Disconnection from the supply	TEX STER INTER WAITE	N/A
8.5.4.3.4	Cut type and test force (N)	20 20 A	N/A
8.5.4.3.5	Compliance	ex write anite write w	N/A
8.5.5	High pressure lamps	No high pressurelamps used.	N/A
we are	Explosion test	THE WILL WILL WILL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Olduse	Trequirement Test	result remain	Verdiet
8.5.5.3	Glass particles dimensions (mm)	The state of	N/A
8.6	Stability of equipment	alifer miter unlife uni	N/A
8.6.1	General	MS1: Mass of the unit	N/A
74 74 V	Instructional safeguard	ALTE WALTER WALT WALT	N/A
8.6.2	Static stability	a at at at	N/A
8.6.2.2	Static stability test	the Maria Maria	N/A
8.6.2.3	Downward force test	t at all all	N/A
8.6.3	Relocation stability	min my my m	N/A
WITE VI	Wheels diameter (mm):	LET THE LIFE OUT	
, L	Tilt test	aller aller site all	N/A
8.6.4	Glass slide test	TER STEE STEE SHIPE	N/A
8.6.5	Horizontal force test	1/1/2 VIII 1/1/2	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	WITE WITE WILL MA	N/A
All S	Test 1, additional downwards force (N)		N/A
74 14 12 14	Test 2, number of attachment points and test force (N)	The man man	N/A
in mi	Test 3 Nominal diameter (mm) and applied torque (Nm)	TE WHITE WILL WILLE	N/A
8.8	Handles strength	Et TEX TEX STEEL	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	LIER SLIER WILL MA	N/A
.+	Number of handles:	The same of the same	_
The Aller	Force applied (N)	LITER MITE WALTE WALTE	-100 - 1
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	a state of	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	CHIEF WIFE WAITE WALL	N/A
8.10.3	Cart, stand or carrier loading test		N/A
" Aller	Loading force applied (N)	LIE WILL MULL MULL	N/A
8.10.4	Cart, stand or carrier impact test	e at at at	N/A
			N/A



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	IEC623	368-1	
Clause	Requirement – Test	Result – Remark	Verdict
ale.	All	THE STEE SHIP WALL	Wer all
8.10.6	Thermoplastic temperature stability	Mr. M. M.	N/A
8.11	Mounting means for slide-rail mounted eq	uipment (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	ITEX MITE WALL WALL OF	N/A
EK JE	Instructional Safeguard	i	N/A
8.11.3	Mechanical strength test	THE WALL WALL WAS	N/A
8.11.3.1	Downward force test, force (N) applied	:	N/A
8.11.3.2	Lateral push force test	anti white white whi	N/A
8.11.3.3	Integrity of slide rail end stops	it let let itek	N/A
8.11.4	Compliance	VILL MUT MUT MUT	N/A
8.12	Telescoping or rod antennas		√ N/A
	Button/ball diameter (mm)	: No such parts	

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	It IS THE STATE STATE	Р
9.3	Touch temperature limits	West August Augu	Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	WILL B
9.3.2	Test method and compliance	See B.1.6 & B.2.3	JE P.J
9.4	Safeguards against thermal energy sources	S WILL ME ME AND A	Р
9.5	.5 Requirements for safeguards		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 Miller
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitte	ers the still will w	Р
9.6.1	General	See below.	- Pot
9.6.2	Specification of the foreign objects	See table 9.6.	J/P
9.6.3	Test method and compliance	: See table 9.6.	Р

10	RADIATION		P (
10.2	Radiation energy source classification	LIER RITE WILL WALL V	Pur Pur
10.2.1	General classification	See below	Et Part
1710	Lasers:	er write write with wh	_
MITEH OF	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low	



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is me	IEC62368-1		is the the
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Trequirement – Test	Result – Remark	Verdict
- che		power application.	20
CLIER I	Image projectors:		<u> </u>
711 22	X-Ray:	" " " " " " " " " " " " " " " " " " "	
Till out	Personal music player		
10.3	Safeguards against laser radiation	her the the the	N/A
10.5	The standard(s) equipment containing laser(s)	No laser radiation	N/A
	comply:	No laser radiation	IN/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		Р
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	nn P
LIEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	LIET WILEY WAITER WALTER	N/A
y Text	Risk group marking and location	e at at	N/A
21/2	Information for safe operation and installation	E MILL MILL MILL W	N/A
10.4.2	Requirements for enclosures	at the fift of	N/A
11/2 1	UV radiation exposure	WALL WALL WALL WAS	N/A
10.4.3	Instructional safeguard	at the state	N/A
10.5	Safeguards against X-radiation	2 20 20	N/A
10.5.1	Requirements	No X-radiation	N/A
20.	Instructional safeguard for skilled persons	is mer me me	_
10.5.3	Maximum radiation (pA/kg)	A TEN LIET NITER ON	_
10.6	Safeguards against acoustic energy sources	1/12 1/11 1/11 1/11	N/A
10.6.1	General	THE STEE STEE WALT	N/A
10.6.2	Classification	Mr. Mr. Mr.	N/A
The Will	Acoustic output L _{Aeq,T} , dB(A)	LIER OLIER MAIR MAIR	N/A
ek unitek	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
	Digital output signal (dBFS)	The The The	N/A
10.6.3	Requirements for dose-based systems	- JEK LIEK MITER WIL	N/A
10.6.3.1	General requirements	Mr. M. M.	N/A
10.6.3.2	Dose-based warning and automatic decrease	LIEN NIFE WITE WITE	N/A
10.6.3.3	Exposure-based warning and requirements	in in it	N/A
"I MUE	30 s integrated exposure level (MEL30):	TEX OUTE WITH WITH	N/A
t dit	Warning for MEL ≥ 100 dB(A):	the state of	N/A
10.6.4	Measurement methods	the write while when the	Р
10.6.5	Protection of persons	a st st st	P
11/2 21	Instructional safeguards	alte with with water	A P



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Clause	Requirement – Test	Result – Remark	Verdict	
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	CH THE THE	N/A	
10.6.6.1	Corded listening devices with analogue input	mr. mr. m	N/A	
LIE WILL	Listening device input voltage (mV)	TEK TEK NITER	N/A	
10.6.6.2	Corded listening devices with digital input	the many	N/A	
MULT	Max. acoustic output L _{Aeq,T} , dB(A)	CER STER STEED SIN	N/A	
10.6.6.3	Cordless listening devices	74. 74.	N/A	
WILL	Max. acoustic output L _{Aeq,T} , dB(A):	the little with with	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General	at let let liet	ITE P
B.1.5	Temperature measurement conditions (See appended table B.1.5)		Р
B.2	Normal operating conditions	et set set set seet o	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
Mr. A	Audio Amplifiers and equipment with audio amplifiers	White Man white white	N/A
B.2.3	Supply voltage and tolerances	Rated input 9Vdc	an P
B.2.5	Input test: (See appended table B.2.5)		A P
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	(See appended table B.3)	P.
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
JEK .	Instructional safeguard	at all the un	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	UII P
B.4	Simulated single fault conditions	LEH LEH LIER ALTER	P
B.4.1	General	me me me	Р
B.4.2	Temperature controlling device	See appended table B.4 for details	P
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р

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20,	IEC62368-1	WELL WALL MAR MAN .	24 45	
Clause	Requirement – Test	Result – Remark	Verdict	
alle	The transfer of the transfer of	The state with the the	e an	
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Per Antifest	
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			
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			
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	UNITE POU	
B.4.9	Battery charging and discharging under single fault conditions	TEK MITEK MATEK MALIEK	N/A	
С	UV RADIATION		N/A	
C.1	Protection of materials in equipment from UV radiation			
C.1.2	Requirements	No such UV generated from the equipment.	N/A	
C.1.3	Test method	- 1 L 1+	N/A	
C.2	UV light conditioning test		N/A	
C.2.1	Test apparatus	L At At	N/A	
C.2.2	Mounting of test samples	LE WILL MULL MULL M	N/A	
C.2.3	Carbon-arc light-exposure test	a state of	N/A	
C.2.4	Xenon-arc light-exposure test	WITE WALL MALL MALL	N/A	
D	TEST GENERATORS		N/A	
D.1	Impulse test generators	while while while who	N/A	
D.2	Antenna interface test generator	at all talk talk	N/A	
D.3	Electronic pulse generator	ite wir mr m. n	N/A	
E	TEST CONDITIONS FOR EQUIPMENT CONTAIL	NING AUDIO AMPLIFIERS	N/A	
E.1	Electrical energy source classification for audi	io signals	N/A	
NLTER AN	Maximum non-clipped output power (W):	THE THE LITTE LITTE	_	
	Rated load impedance (Ω):	me, my my mil	_	
IE WALL	Open-circuit output voltage (V):		_	
L X	Instructional safeguard:	Land Marie Con	_	
E.2	Audio amplifier normal operating conditions	TEX LIET SLIET SULFER SU	N/A	
<i>2</i> +	Audio signal source type:	7115 711 715 7	a _	
.5			Y	



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	IEC62368-1	The The The American	
Clause	Requirement – Test	Result – Remark	Verdict
Me		EL WILL MILL MULL MA	7/1
A CONTRACTOR OF THE PARTY OF TH	Audio output voltage (V)		
mr m	Rated load impedance (Ω)	WILL MULL MULL MULL	
det o	Requirements for temperature measurement	a state of the	N/A
E.3	Audio amplifier abnormal operating conditions	ALTE WALL WALL WALL	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	LIEK P
F.1	General		P
Mir	Language	English	_
F.2	Letter symbols and graphical symbols	and the state of	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	WA P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P JIEK WA
F.3	Equipment markings	- TEX STEX STEEL WITH	P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	P
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	P
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	Р
F.3.3.3	Nature of the supply voltage	See copy of marking plate.	Р
F.3.3.4	Rated voltage	See copy of marking plate.	P.
F.3.3.5	Rated frequency	DC supply	Р
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	MULL MULL MULL MULL	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	TEX WITEX WAITER WHITE V	N/A
F.3.5.2	Switch position identification marking	a at at at	N/A
F.3.5.3	Replacement fuse identification and rating markings	Muse mer mer m	N/A
West of	Instructional safeguards for neutral fuse:	LIFE SLIFE WALL WALL	N/A



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	IEC62368-1	Tr. Aug. My M.	27.
Clause	Requirement – Test	Result – Remark	Verdict
- 0.5.4		France Mr.	20
3.5.4	Replacement battery identification marking:	No such battery.	N/A
3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	The state of	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	TEX SLIER WITER WALTER W	N/A
F.3.6.1.1	Protective earthing conductor terminal	An In	N/A
F.3.6.1.2	Protective bonding conductor terminals	LIER WITE WITE WALLE	N/A
F.3.6.2	Equipment class marking:	101 A. A.	N/A
F.3.6.3	Functional earthing terminal marking:	LIER WILL WALLE	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	MITER W
F.3.8	External power supply output marking:	See copy of marking plate.	↓ P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to thepermanence of marking test. Thelabel was rubbed with cloth soakedwith water for 15 sec. And thenagain for 15 sec, with the clothsoaked with petroleum spirit. After this test there was nodamage to the label. The markingon the label did not fade. Therewas no curling and lifting of thelabel edge. After each test, the markingremained legible.	WALTER WA
F.4	Instructions	let telt the state state	P
	a) Information prior to installation and initial use	See user manual	Р
WALTE	b) Equipment for use in locations where children not likely to be present	EX WILLEY MULTER WHITE W	N/A
CIER	c) Instructions for installation and interconnection	- et et et e	N/A
The Th	d) Equipment intended for use only in restricted access area	MUT MUT MUT AND	N/A
ver inc	e) Equipment intended to be fastened in place	CHIEF WILL WILL WILL	N/A
et e	f) Instructions for audio equipment terminals		N/A
1415	g) Protective earthing used as a safeguard	TET WITE WITE WILL	N/A
MALTER	h) Protective conductor current exceeding ES2 limits	ex lifet writer writer an	N/A
		110, 411, 417, 417	



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21,	IEC62368-1	KILL WILL WALL WALL	211. 211.
Clause	Requirement – Test	Result – Remark	Verdict
Jahr.	and the state of	Er alle all and	The Marie
	j) Permanently connected equipment not provided with all-pole mains switch	THE THE STREET	N/A
	k) Replaceable components or modules providing safeguard function	with the And	N/A
20	Equipment containing insulating liquid	Will Auto Mus Au	N/A
EX STE	m) Installation instructions for outdoor equipment	at at all of	N/A
F.5	Instructional safeguards	ry Mur Mur Mur	N/A
G	COMPONENTS		Р
G.1	Switches	The The An	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	Mr. Mr. Mr. A.	N/A
G.1.3	Test method and compliance	TEN LITER STEP SOL	N/A
G.2	Relays	V. 24. 20. 20.	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance	Let of other 10	N/A
G.3	Protective devices	7 1	N/A
G.3.1	Thermal cut-offs	No such component	N/A
t mitex	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	# TEX TEX STEE	N/A
TEK.	Thermal cut-outs tested as part of the equipment as indicated in c)	Any Any Any	N/A
G.3.1.2	Test method and compliance	WALTE WALT WALT V	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	With the the	N/A
M	b) Thermal links tested as part of the equipment	E WALL MALL MAL	N/A
G.3.2.2	Test method and compliance	at the set	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	mer mer me m	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	THE WALL MALL WAS	N/A
G.3.5.2	Single faults conditions	EX NITER WITE WHITE	N/A
G.4	Connectors	70, 2, 3	N/A
G.4.1	Spacings	No such component	N/A



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10,	IEC62368-1	alter and anne and	20, 20,	
Clause	Requirement – Test	Result – Remark	Verdict	
Mr.	an an a state of	LES LITE WILL WALL	me m	
G.4.2	Mains connector configuration		N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A	
G.5	Wound components			
G.5.1	Wire insulation in wound components No such component		N/A	
G.5.1.2	Protection against mechanical stress	TER STEEL WITER WALL	N/A	
G.5.2	Endurance test	w. 2	N/A	
G.5.2.1	General test requirements	ALTER WITE WAITE	N/A	
G.5.2.2	Heat run test	24 T	N/A	
ne in	Test time (days per cycle)	CHIEF WITE WITE	Vr. —	
16t 15	Test temperature (°C):	The second	CENT —	
G.5.2.3	Wound components supplied from the mains	LIFE MILIE MALLE WA	N/A	
G.5.2.4	No insulation breakdown	a at at a	N/A	
G.5.3	Transformers			
G.5.3.1	Compliance method:	at at the	N/A	
111 11	Position:	White Man Man.	N/A	
alifeth onli	Method of protection:	at a set	N/A	
G.5.3.2	Insulation	21 242 24	N/A	
SEK ONLIE	Protection from displacement of windings:			
G.5.3.3	Transformer overload tests	3 M. M. M.	N/A	
G.5.3.3.1	Test conditions	of the tief alle	N/A	
G.5.3.3.2	Winding temperatures	The Anna An	N/A	
G.5.3.3.3	Winding temperatures - alternative test method	TER SITE MITTER	N/A	
G.5.3.4	Transformers using FIW	m m	N/A	
G.5.3.4.1	General	STER STER WITTER	N/A	
et et	FIW wire nominal diameter:		<i>*</i>	
G.5.3.4.2	Transformers with basic insulation only	TEL MITE MALTE WALT	N/A	
G.5.3.4.3	Transformers with double insulation or reinforced insulation	- Litt Willey Willey	N/A	
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	THE THE STEEL	N/A	
G.5.3.4.5	Thermal cycling test and compliance	ing my my	N/A	
G.5.3.4.6	Partial discharge test	TEX ITEX WITE ON	N/A	
G.5.3.4.7	Routine test	Any Ang an	N/A	
G.5.4	Motors	No motors used.	N/A	
G.5.4.1	General requirements	7112 111 111	N/A	
G.5.4.2	Motor overload test conditions	THE THE STATE	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict	
G.5.4.3	Running overload test	The water with	N/A	
G.5.4.4.2	Locked-rotor overload test	LIEF NITE MITTE	N/A	
	Test duration (days):	.t -		
G.5.4.5	Running overload test for DC motors	ALTER MILE WALTER MY	N/A	
G.5.4.5.2	Tested in the unit		N/A	
G.5.4.5.3	Alternative method	LIER WILLER WALLE	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	and the state	N/A	
G.5.4.6.2	Tested in the unit	White White White	N/A	
LIEK N	Maximum Temperature:	at at let	N/A	
G.5.4.6.3	Alternative method	Were Mer Mer 1	N/A	
G.5.4.7	Motors with capacitors	at let let i	N/A	
G.5.4.8	Three-phase motors	ing they they the	N/A	
G.5.4.9	Series motors	et let let let lie	N/A	
	Operating voltage:	m m m		
G.6	Wire Insulation	t ifet lifet miles	N/A	
G.6.1	General Only ES1 existed		N/A	
G.6.2	Enamelled winding wire insulation	LET THE WILL WITH THE	N/A	
G.7	Mains supply cords		N/A	
G.7.1	General requirements	No such component	N/A	
t let	Туре	. 4 4 13	_	
G.7.2	Cross sectional area (mm² or AWG)	WILL WILL WALL	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	THE MATER MATER A	N/A	
G.7.3.2	Cord strain relief	The state of the s	N/A	
G.7.3.2.1	Requirements	ALTER INLIER WALLE WA	N/A	
# . E#	Strain relief test force (N)		N/A	
G.7.3.2.2	Strain relief mechanism failure	The WALL MARK MARK	N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	A ST ST	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	WILL MULL MULL	N/A	
G.7.4	Cord Entry	A BY THE	N/A	
G.7.5	Non-detachable cord bend protection	Write Mur Mur M	N/A	
G.7.5.1	Requirements	at the set of	N/A	
G.7.5.2	Test method and compliance	in me me m	N/A	
WILLE	Overall diameter or minor overall dimension, D (mm)	et united united united	win —	
All the	Radius of curvature after test (mm):	the state of		



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Clause	Requirement – Test	Result – Remark	Verdict	
The .	n n v	EL STEEL WILL SALL SALL	201	
G.7.6	Supply wiring space		N/A	
G.7.6.1	General requirements	ALTER MITE WALL WALL	N/A	
G.7.6.2	Stranded wire	The state of	N/A	
G.7.6.2.1	Requirements	ALTER WALLE WALL WALL	N/A	
G.7.6.2.2	Test with 8 mm strand	a state of	N/A	
G.8	Varistors	LIET WALL MALL MALL W	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	Mer Mr. Mr. M.	N/A	
G.8.2.1	General	at at the th	N/A	
G.8.2.2	Varistor overload test	White Mer Mer Mu	N/A	
G.8.2.3	Temporary overvoltage test	at tex tex itex	N/A	
G.9	Integrated circuit (IC) current limiters	ver me me m	N/A	
G.9.1	Requirements	No such component	N/A	
4,	IC limiter output current (max. 5A):	me me m	_	
unitére ul	Manufacturers' defined drift	TEX TEX NITER ONLY	_	
G.9.2	Test Program	1012 101 101 101 101 101 101 101 101 101	N/A	
G.9.3	Compliance	LEE MILLE WALLE	N/A	
G.10	Resistors	La Vita	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	a de de	N/A	
G.10.3	Resistor test	THE WALL WALL WAS	N/A	
G.10.4	Voltage surge test	a a at at	N/A	
G.10.5	Impulse test	WILL MILL MULL MILL	N/A	
G.10.6	Overload test	a at all let	N/A	
G.11	Capacitors and RC units	WILL MULL AND AND	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	in the time of	N/A	
G.11.3	Rules for selecting capacitors	- at let steet al	N/A	
G.12	Optocouplers	me me me	N/A	
INLIEE WAS	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
TER LIE	Type test voltage V _{ini,a}	at let let tet	_	
20,	Routine test voltage, V _{ini, b} :	re mer mer me	_	
G.13	Printed boards	of the text that the	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	



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IEC62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
G.13.2	Uncoated printed boards	There were were	N/A		
G.13.3	Coated printed boards	TER STER STER	N/A		
G.13.4	Insulation between conductors on the same inner surface	tet tet tet o	N/A		
G.13.5	Insulation between conductors on different surfaces	ni mi wi in	N/A		
40	Distance through insulation	in the August August	N/A		
CLIER	Number of insulation layers (pcs)	t of the other			
G.13.6	Tests on coated printed boards	min my m	N/A		
G.13.6.1	Sample preparation and preliminary inspection	TEX TEX STEE	N/A		
G.13.6.2	Test method and compliance	m. m. m.	N/A		
G.14	Coating on components terminals	THE LITER SLIFET ON	N/A		
G.14.1	Requirements	N/A			
G.15	Pressurized liquid filled components				
G.15.1	Requirements No such component		N/A		
G.15.2	Test methods and compliance		N/A		
G.15.2.1	Hydrostatic pressure test		N/A		
G.15.2.2	Creep resistance test	Marie M	N/A		
G.15.2.3	Tubing and fittings compatibility test	- L	o N/A		
G.15.2.4	Vibration test	The Will Mar Mar	N/A		
G.15.2.5	Thermal cycling test	e st set set	N/A		
G.15.2.6	Force test	MULL WILL WILL	N/A		
G.15.3	Compliance	at let let	N/A		
G.16	IC including capacitor discharge function (ICX)	They were the	N/A		
G.16.1	Condition for fault tested is not required	No such component	N/A		
d de	ICX with associated circuitry tested in equipment	Les Mes Mes Mes	N/A		
e Write	ICX tested separately	Et JEY LIET WIT	N/A		
G.16.2	Tests	44. 24. 24.	N/A		
Aller A	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	WALTER WALTER WALTER	unti –		
WITE ON	Mains voltage that impulses to be superimposed	TEX STEX STEX	LITER -		
A 7	on	ing mer and a			
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	JEX NIEK WIEK MI	16. —		
G.16.3	Capacitor discharge test	70 20	N/A		
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A		
H.1	General	a at at	N/A		
H.2	Method A	NITE OUT ONLY	N/A		



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46 0		31 30.90 00 00		
in an		IEC62368-1		
Clause	Requirement – Test	The Maria Contraction of the Con	Result – Remark	Verdict

H.3	Method B	70 70	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	VII. ME ME ME	_
H.3.1.2	Voltage (V):	et set set set seet	_
H.3.1.3	Cadence; time (s) and voltage (V)	and the same	_
H.3.1.4	Single fault current (mA)::	to the lift site will	_
H.3.2	Tripping device and monitoring voltage	711. 711. 111.	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	united white united white	N/A
H.3.2.2	Tripping device	THE THE LIFE OUTER	N/A
H.3.2.3	Monitoring voltage (V):	in the the	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	- let tet tet till sit	N/A
211 1	Winding wire insulation:	wer me me m	_
NITER SIN	Solid round winding wire, diameter (mm)	if the stiff	N/A
SER SLIFE	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	The state of the s	N/A
J.2/J.3	Tests and Manufacturing	it mit me me a	$\frac{1}{2n}$
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	Mur. Mur. Mr. M.	N/A
Mariter W	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	write mure mure mure.	N/A
K.4	Interlock safeguard override	at let the state	N/A
K.5	Fail-safe	in the the the	N/A
K.5.1	Under single fault condition	- THE THE LITTER MIT	N/A
K.6	Mechanically operated safety interlocks	Mr. Mr. M. M.	N/A
K.6.1	Endurance requirement	THE LIET OLIER WAITER	N/A
K.6.2	Test method and compliance:	11. 11. 12.	N/A
K.7	Interlock circuit isolation	TER STEE STEE SMILE STEEL	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at left lift lift w	N/A
	In circuit connected to mains, separation distance for contact gaps (mm):	Mus My My M	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
TEX	In circuit isolated from mains, separation distance for contact gaps (mm):	The same and the same	N/A	
alik i	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A	
K.7.2	Overload test, Current (A):	all white will was	N/A	
K.7.3	Endurance test	at at at at	N/A	
K.7.4	Electric strength test	it with min min w	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	me me me	N/A	
L.2	Permanently connected equipment	TEX TEX STEX STE	N/A	
L.3	Parts that remain energized	They have the	N/A	
L.4	Single-phase equipment	TEN TEN STEP MITE	N/A	
L.5	Three-phase equipment	5. My My M	N/A	
L.6	Switches as disconnect devices	Ex little nites inties in	N/A	
L.7	Plugs as disconnect devices	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
L.8	Multiple power sources	ALTER OLITE MALIE WALF	N/A	
Let .	Instructional safeguard:		N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements	t let	N/A	
M.2	Safety of batteries and their cells		N/A	
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	N/A	
M.3	Protection circuits for batteries provided within the equipment	THE LITTLE SLITTE SOLITE	N/A	
M.3.1	Requirements	The An An An	N/A	
M.3.2	Test method	TEX LIFE RUE WITE	N/A	
EK MLTEK	Overcharging of a rechargeable battery	(See appended table AnnexM)	N/A	
CIEK	Excessive discharging	(See appended table AnnexM)	N/A	
101. 1	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
Ver an	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A	
M.3.3	Compliance White W	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	N/A	
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	N/A	



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- 20,	IEC62368-1	MILE WALL MAR AND A	n 10.
Clause	Requirement – Test	Result – Remark	Verdict
me.	an an at the st	EL TILL OUT, AV.	'un
M.4.1	General	70 7	N/A
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	N/A
M.4.2.1	Requirements	MULL MULL MULL MILL	N/A
M.4.2.2	Compliance ::	(See appended table M.4.2)	N/A
M.4.3	Fire enclosure	V-0 fire enclosure used	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	LIER MILER WILLER	N/A
M.4.4.2	Preparation and procedure for the drop test	at left the treet .	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	N/A
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	N/A
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	N/A
M.4.4.6	Compliance	The Mult Mult Mult a	N/A
M.5	Risk of burn due to short-circuit during carrying	g of at the	Et Pier
M.5.1	Requirement	No bare conductive terminal used	N/A
M.5.2	Test method and compliance	MITE WALL WALL WALL WALL	N/A
M.6	Safeguards against short-circuits	a de de de	N/A
M.6.1	External and internal faults	NITE WALL WALL WALL	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	N/A
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
The White	Calculated hydrogen generation rate	JEX NIEK MITE WAITE	N/A
M.7.2	Test method and compliance	20, 70,	N/A
wer.	Minimum air flow rate, Q (m³/h)	It aliet wife aniic wh	N/A
M.7.3	Ventilation tests	70 A 74 A	N/A
M.7.3.1	General	LITER BLIEF WILLY WALL	N/A



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Clause	IEC62368-1	Decult Demail:	Vandiat
Clause	Requirement – Test	Result – Remark	Verdict
M.7.3.2	Ventilation test – alternative 1	the the m	N/A
antie-	Hydrogen gas concentration (%)	TEX LIEX ALTER MAIN	N/A
M.7.3.3	Ventilation test – alternative 2	The file of the	N/A
rice and	Obtained hydrogen generation rate:	ITEL SITE MITTER MITTER	N/A
M.7.3.4	Ventilation test – alternative 3	10. M. 10. 2.	N/A
2/15/2	Hydrogen gas concentration (%)	TET RETER SPECIFICATION	N/A
M.7.4	Marking		N/A
M.8	Protection against internal ignition from externation with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	SLIFE MITER SINLIFE WALTE	N/A
M.8.2	Test method	The same of the sa	N/A
M.8.2.1	General	LIET MILL MALIE WALL	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):	e at at at	16th -
M.8.2.3	Correction factors	e unit mi mi mi	71/2
M.8.2.4	Calculation of distance d (mm)	at all the of	£ 56
M.9	Preventing electrolyte spillage	white many mer was	N/A
M.9.1	Protection from electrolyte spillage	ALT STEE STEE	N/A
M.9.2	Tray for preventing electrolyte spillage	2 10 10	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	TE WILLE WILLE WILLE	N/A
LIFE	Instructional safeguard	t the the the	N/A
N	ELECTROCHEMICAL POTENTIALS	THE THE THE TO	N/A
WITE N	Material(s) used:	TEK TEK TEK KITE	WILL STATE
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
Liter WILL	Value of X (mm)	THE THE STEE WITE	WELL -
P.	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS	N/A
P.1	General	See below	N/A
P.2	Safeguards against entry or consequences of e	entry of a foreign object	N/A
P.2.1	General	CLIER WITE WALTE WAL	N/A
P.2.2	Safeguards against entry of a foreign object	The state of	N/A
Wr. An	Location and Dimensions (mm)	No opening.	m.
P.2.3	Safeguards against the consequences of entry of a foreign object	THE STIER WITER	N/A
P.2.3.1	Safeguard requirements	24 24	N/A
MUC	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE WALLE WHILE AND	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
NA	Transportable equipment with metalized plastic parts	Et it nit in in	N/A
P.2.3.2	Consequence of entry test	MULTE WILL WILL WINE	N/A
P.3	Safeguards against spillage of internal liquids	Let Let Let with	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	CER TER THE WITE OF	N/A
P.3.3	Spillage safeguards	in was	N/A
P.3.4	Compliance	t life outer writer wi	N/A
P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	2, 2, 7 Y	N/A
12 May .	Conditioning, T _C (°C)	LIFE WALL WALL WALL	3 L7
y Jet	Duration (weeks)	a at at at	(10th - 1
Q July	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	See appended table Annex Q.1	N/A
Q.1.1	Requirements	The set	N/A
10 14	a) Inherently limited output	The sure sure	N/A
CER JOY	b) Impedance limited output	The state	N/A
20	c) Regulating network limited output	The west was any a	N/A
LITER	d) Overcurrent protective device limited output	t et tet stet s	N/A
70,	e) IC current limiter complying with G.9	Mr. Mr. M. M.	N/A
Q.1.2	Test method and compliance	See below	N/A
17 EFF 15	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N/A
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
ano.	Maximum output current (A)	IEE MITE WALTE WALT W	N/A
TEX.	Current limiting method	1 1 1	× 3 6
R	LIMITED SHORT CIRCUIT TEST	WITE MILE WALL WALL	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	MUTTER MUTT WHEN MUTE	N/A
TEX SIT	Overcurrent protective device for test	at let let set	CIEN-
R.3	Test method	ry Mrs. Mrs. Mrs.	N/A
CLIER	Cord/cable used for test	It let let let let	16th 1151
R.4	Compliance	They are any and	N/A



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46 0		(4) (3)		
in an		IEC62368-1		
Clause	Requirement – Test	iri mur m	Result – Remark	Verdict

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
rie an	Samples, material:	Mr. 17 - 1
,t	Wall thickness (mm):	
JUL.	Conditioning (°C)	15. 71/2
MALTER	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
, t	- Material not consumed completely	N/A
Willer of	- Material extinguishes within 30s	N/A
×	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
+ 10	Samples, material	. St — 1
me	Wall thickness (mm)	- Toler
TEX.	Conditioning (°C):	t d
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
iek "ci	Mounting of samples	15 EK-10
	Wall thickness (mm)	$\overline{}$
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A
et .	Samples, material	16 <u>+</u>
10, 24,	Wall thickness (mm)	71/2 -1
EX JE	Conditioning (°C)	16th - 1
T 20	MECHANICAL STRENGTH TESTS	Р
T.1 (100)	General	Р
T.2	Steady force test, 10 N: (See appended table T.2)	N/A
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N: (See appended table T.4)	Р
T.5	Steady force test, 250 N:	N/A
T.6	Enclosure impact test	N/A
White	Fall test	N/A
d	Swing test	N/A
T.7	Drop test: (See appended table T.7)	N P

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	IEC62368-1	21 21 21 24 24 24 24 24 24 24 24 24 24 24 24 24	
Clause	Requirement – Test	Result – Remark	Verdict
- 6		(O) 1 1 1 1 TO	70
T.8	Stress relief test:		P
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	at at let let	N/A
20,	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas		
- JEK	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Usilis -	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1 🎺	General	alies while while while	N/A
LIEK MILI	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A
U.3	Protective screen	CEX CLEX SCIENCE ONLY	N/A
V ,	DETERMINATION OF ACCESSIBLE PARTS	74, 24, 27	N/A
V.1	Accessible parts of equipment	- LIEF WILL MILLER WILL	N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	The fact of the same	N/A
V.1.3	Openings tested with straight unjointed test probes	TELLITE OLIVERY MALTER	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	741 200	N/A
V.1.5	Slot openings tested with wedge probe	* alter while anite and	N/A
V.1.6	Terminals tested with rigid test wire	7/1 /11	N/A
V.2	Accessible part criterion	SLIEB MITE WALTE WALL	N/A
X 4	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
EK RITE	Clearance	CH TEN TEN TEN	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	Mr. Mr. Mr. Mr.	N/A
Y.3	Resistance to corrosion	THE LIER STEEL STEEL	N/A
Y.3	Resistance to corrosion	me me in an	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	TEX WHITE WHITE WHITE	N/A
Y.3.2	Test apparatus	It let let let let	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	Mer. Mr. Mr. Mr.	N/A
Y.3.4	Test procedure:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
alle	THE THE	The still will will	The The	
Y.3.5	Compliance	70. 2	N/A	
Y.4	Gaskets	A THE WALLE WALLE	N/A	
Y.4.1	General	201	N/A	
Y.4.2	Gasket tests	NITER UNLIE WALL OF	N/A	
Y.4.3	Tensile strength and elongation tests		N/A	
- ale	Alternative test methods:	Hier Marie Marie Mar	N/A	
Y.4.4	Compression test	L st set se	N/A	
Y.4.5	Oil resistance	murit muri muri	N/A	
Y.4.6	Securing means	at let let	N/A	
Y.5	Protection of equipment within an outdoor encl	osure	N/A	
Y.5.1	General	Let Tex Tex	N/A	
Y.5.2	Protection from moisture	his me me m	N/A	
MITE	Relevant tests of IEC 60529 or Y.5.3:	LEK TEK JEK NI	N/A	
Y.5.3	Water spray test	in in in	N/A	
Y.5.4	Protection from plants and vermin	Y TEN LITER WITE	N/A	
Y.5.5	Protection from excessive dust	4/2 24 24	N/A	
Y.5.5.1	General	AL PULLE	N/A	
Y.5.5.2	IP5X equipment		N/A	
Y.5.5.3	IP6X equipment	IF MITE WALL WA	N/A	
Y.6	Mechanical strength of enclosures	111111111111111111111111111111111111111	N/A	
Y.6.1	General	THE MITTER WALTER WALTER	N/A	
Y.6.2	Impact test:	L 16	N/A	



, m	Mr. Am. Am.	IEC62368-1	LIET WILL MULTERAL	211	10
Clause	Requirement – Test	The The The	Result – Remark	y	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

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	CENELEC COMMON MODIFICATIONS (EN)	STIER WITE WILL MALL MALL	Р
Whitek w	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	nbers in that column, except for 1:2018.	P. F. WALTER
TEX WHITE	Add the following annexes: Annex ZA (normative)Normative references to international publications with their corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code designations for flexible cords		PW EXWALLEY
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A



	IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
alex.	M. M. J. The Man	are all miles and	ane and
3.3.19.3	sound exposure, E	10 10	N/A
	A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	MULTER WALTER WALTER W	With Mury
	Note 1 to entry: The SI unit is Pa^2 s. $E = \int_{-T}^{T} p(t)^2 dt$	THE WHITE WHITE WAL	iek witter w
	O MITEL WAITER WAITER WAITER WAS	Mur Mur Mur	70 TO
3.3.19.4	sound exposure level, SEL	CHIEF WHILE	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	Writes maries marries on	LIEK MILIEK
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	TEX WITEX WAITER WALF	ek on ter on
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	* white whitek whitek	WALLEY WALL
WALTER	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	Whitek Multer Multer of	NITE WALTER
3.3.19.5	digital signal level relative to full scale, dBFS	ALTER ON	N/A
	levels reported in dBFS are always r.m.s. Full	2 24 24	
	scale level, 0 dBFS, is the level of a dc-free 997-	The state of	F NIFE W
	Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code	in with must must	211. 211.
	corresponding to negative digital full scale unused	at let let	ALTER OLIT
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	White white white	MILLER MILITER
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	VE. Mr. Mr. M.	N/A
EX STEX	Replace 10.6 of IEC 62368-1 with the following:	at all all the	- With mi
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are	Whitek multer multer wh	INTER WATER
	also covered. A personal music player is a portable equipment intended for use by an ordinary person , that:	TEX WITER WITER WITE	and the an

intended for use by an **ordinary person**, that:

audiovisual content / material; and

earphones that can be worn in or on or

- is designed to allow the user to listen to audio or

- uses a listening device, such as headphones or



IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale.	W The State of the	Et Milter Will Will	1/1/2 1/11.	
	around the ears; and – has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a	MULTER WHITER WHITER	JUNITER JUNITER	
	subway, at an airport, etc.).	Arry Mer Mer M	. 2	
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	EK NIEK WIFEK WIL	EK WAL EN WAL	
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	A right wright wright	WALTE WALTER	
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	of the the	LIEK NIEK	
	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.	TEX MULTER MULTER ON	TEX OUTER OU	
	Listening devices sold separately shall comply with the requirements of 10.6.6.	PA WHITEK WHITEK WHITE	MULT MULT	
	These requirements are valid for music or video mode only. The requirements do not apply to:	MITEL MILIER WILLER	WALTER WALTER	
	– professional equipment;	at the	SLIEF STEEL	
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment.	Life anite while whi	EK MULEK MUL	
	 hearing aid equipment and other devices for assistive listening; 	e offer writer white	WALTE WALTE	
	 the following type of analogue personal music players: 	at at let	CTEX NUTER	
	long distance radio receiver (for example, a multiband radio receiver or world band radio	unite unit with	n in .	
	receiver, an AM radio receiver), and • cassette player/recorder;	LIEK WALTER WALTER WA	LIER WILTER WI	
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	Set whitet white	ek muri	
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	MILIER WAITER WALTER	WHITE WHITE	
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	onch was wifet wi	iek an lek an	
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	et whilet whilet while	WALT & WALTE	
10.6.1.2	Non-ionizing radiation from radio frequencies	at at at	N/A	



70,	IEC62368-1	tien with the and	20, 40,
Clause	Requirement – Test	Result – Remark	Verdict
ale .	My Min and Market	LIFE SLIFE JACK	The state of
	in the range 0 to 300 GHz	24, 24,	
	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	untifet whitet whitet white	Mariek Marie
WALTER	Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	MALTER MALTER WALTER	NITE VINLIE
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	Not such equipment	N/A TEX NO
	For classifying the acoustic output L_{Aeq} , τ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	WHITE WHITE WHITE WA	ex writer
	For music where the average sound pressure (long term $LAeq, \tau$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.	TEX TEX TEX	WAITER WAITER
dir di Lifek dinli Ek dinlifek dinlifek	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	JUNITER WHITER WHITER WHITER	WALTER WALTER
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the ∠Aeq, τacoustic output shall be ≤ 85 dB when playing the fixed	ALTER WALTER WALTER WALTER	N/A III III III III III III III



IEC62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
- July	THE THE THE THE	EN SUIEN WITE MALLY	mi me		
untiek w tiek whi ek whitek	"programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as	antifek whitek whitek whitek	WAY STEK ON		
10.6.2.3	per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3)	White with wall	P		
INCIE VINCE WILLEY W	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	INTER WHITE	THE MILITER WHITE WAS THE WAS		
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	WILL MY MILES MILITER W	N/A		
10.6.3	Classification of devices (new)		a⊢ ∠N/A		
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A N/A		
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the ∠Aeq, ⊤acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	MITER WALTER WALTER WALTER	N/A		



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Clause	Requirement – Test	Result – Remark	Verdict	
WATER WILL	- 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.	Whitek whitek whitek w	ALTER MILITER	
10.6.3.3	RS2 limits (new)	et ret ret rie	N/A	
JUNETER JUNETE	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	JUNITER WHITER W	ANLIE WALTER	
10.6.4	Requirements for maximum sound exposure	ite with more more	N/A	
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A	
10.6.4.2	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. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. The elements of the instructional safeguard shall be as follows:	LIEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	WALTER WA	



20,	IEC62368-1	THE WALL WALL WALL	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
"Iles	THE THE THE	LIFE WITE WILL	wer were
MILIER WILLER WINTER WINTER	 element 1a: the symbol 6044 (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 of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time. NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. 	JUNITER WHITER W	AND TEK WILTER ON THE WILTER ON TH
UNLIEK NI	A skilled person shall not be unintentionally exposed to RS3.	TEX LIET VILLE	LIEK UNLIEK
10.6.5	Requirements for dose-based systems	me in in	N/A
10.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. 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	Whitek whitek whitek whitek whitek whitek	White white
	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	TEK WILTEK WILTEK WILTEK	WATER WAS
	configuration.	1 4 1	164



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Clause	Requirement – Test	Result – Remark	Verdict	
n,	easy to understand explanation to the user of the	with mit my	me m	
	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.	untilet untilet untilet w	LITER MILITER OF	
0.6.5.2	Dose-based warning and requirements	OF THE THE THE	N/A	
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an 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	Miles Miles Miles	TEX MITTER	
ir whi	listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	TEX MUTER MUTER MUT.	And The And	
10.6.5.3	Exposure-based requirements	A TEX TEX TEX	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 w	itt vilit	
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	white white white	WALTE WALTE	
	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.	Antic while	on tiek on tiek	
NITEK W	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	et get get	TEK MITEK	
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A	
10.6.6.1	Corded listening devices with analogue input With 94 dB LAeqacoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic	Not such equipment	N/A	



IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Whitek Whi	output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	unlies whites whites	Whitek whitek	
10.6.6.2	Corded listening devices with digital input	at at at a	N/A	
whitek white	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq, T}$ acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	JEK Whitek Whitek	JUNITE JUNITER NUTER JUNITER JUNITER	
10.6.6.3	Cordless listening devices	1 2 2 1	N/A	
WALTER WALTER WALTER WALTER WALTER	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, 7acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	White	JUNETER WINLIGHT STEEL WINLIGHT WINLIE WINL	
10.6.6.4	Measurement method	Mr. Mr. Mr. 1	N/A	
LIFEK WALT	Measurements shall be made in accordance with EN 50332-2 as applicable.	TEX LIEX NUTER ON	TEK WITEK	
3	Modification to the whole document		Р	



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24	IEC62368-1		- 40
Clause	Requirement – Test	Result – Remark	Verdict

	lis		country note	s in the refe	erence docume	nt according	to the following	100
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	200
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	.gl	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	EX
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	m.	Table 13						-11
	INLT EX	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	أدمان
	SEK S	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	CT ELY
	, n	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	. X
	W.T.	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	215
	Je (10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	7F	Y.4.5	Note					
N	ile.	7			AT AT		1 10 m	
	М	odification	to Clause 1					
	NO ele		ving note: e of certain substa ent is restricted w			MATER MALT	TEK TEK	3
		odification	to 4 71		A-1			



IEC62368-1



	V	71	Y
8	N.		
		J	

Clause	Requirement – Test	Result – Remark	Verdict
Jan .	White the test of	ALTE MET MALE MALE	- an
4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c.mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	mains In the whitek whitek whitek If whitek whitek whitek whitek If whitek whitek whitek whitek If whitek whitek whitek whitek whitek If whitek white	WALTER WAS
	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	Whitek whitek whitek	UNITEK .W
	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.	ANTER MUTEL MUTEL MA	st when

If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for **pluggable equipment type A** the building installation shall be regarded as providing protection in accordance with the rating



4			7	7
	1	1		
1		4		Į,

N/A

N/A

Ρ

	IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph:	The Thirty was	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	MILIER MALIER MALIER	White White
	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.	Whitek Multer Whitek Whitek	LIER WILEY WILLEY
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	UNITER WHITEK WHITEK V	NLTER WALTER
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	TEK WHITEK WHITEK WH	TEX IN THE WA
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	whitek whitek whitek	MILITER WILLIER
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	The state of the subtree	EK WHITEK WHI
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	A ST SE	- 15E - 15E

Modification to G.7.1

Add the following note:

Modification to Bibliography

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

G.7.1

10



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AV 20			<i></i>
24	IEC62368-1		- 40
Clause	Requirement – Test	Result – Remark	Verdict

" " " "	The state of the s	20, 3
et .	Add the following notes for the standards indicated:	P
MUTTER MUS	IEC 60130-9 NOTE Harmonized as EN 60130-9.	are an
4 0	IEC 60269-2 NOTE Harmonized as HD 60269-2.	4
LITER OLITE	IEC 60309-1 NOTE Harmonized as EN 60309-1.	STILL STATE
20	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.	200
et et	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	CH CH
ill while	IEC 60664-5 NOTE Harmonized as EN 60664-5.	TALL.
2	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1.	
- (1)	IEC 61508-1 NOTE Harmonized as EN 61508-1.	TEN
aller all	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	21/2 1
4	IEC 61556-2-4 NOTE Harmonized as EN 61558-2-6.	
LIFE OUT	IEC 61643-1 NOTE Harmonized as EN 61643-1.	CLITE IN
21/2 21/	IEC 61643-21 NOTE Harmonized as EN 61643-21.	71. 20.
1 1	IEC 61643-311 NOTE Harmonized as EN 61643-311.	13 16
Life Mili	IEC 61643-321 NOTE Harmonized as EN 61643-321.	CI MALL
77.	IEC 61643-331 NOTE Harmonized as EN 61643-331.	
et let		J. 187
11/2	the sale of the site with with the	The .
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	MILE W
4.1.15	Denmark, Finland, Norwayand Sweden Not directly connected to the	N/A
WELL MILL	To the end of the subclause the following is mains	ULL WAS
	added:	
LEK CIEN	Class I pluggable equipment type A intended for	LEK TIES
an an	connection to other equipment or anetwork shall, if	21/2
+	safety relies on connection to reliable earthing or if surge suppressors are connected between the	الحد يا
e street	network terminals and accessible parts, have a	" OLITE
211, 2,	marking stating that the equipment shall be	10. 1
J. J.	connected to an earthed mains socket-outlet.	14
and and	while you are a feet that the state with	are are
	The marking text in the applicable countries shall	
TEX LIE	be as follows:	JEE JI
er and	In Donmarks of the title title with while will	100
2 14	In Denmark : "Apparatetsstikpropskaltilsluttesenstikkontakt med	at at
E WILL	jordsom giver forbindelsetilstikproppensjord."	MILIT
2, ,	In Finland : "Laite on	337
- LEX	liitettäväsuojakoskettimillavarustettuunpistorasiaan	TEX-
when the	" WIN AND " OR LEST THE THE SLITE WILL WALL	21/2 21
	In Norway:	
CIER LI	"Apparatetmåtilkoplesjordetstikkontakt"	SUE OU
We are	In Sweden: "Apparatenskallanslutas till	11. 21.
* *	jordatuttag"	d 10



	IEC02300-1	415. 70, 20	`
Clause	Requirement – Test	Result – Remark	Verdict
21/2 21		anti wate we	2/11.
4.7.3	United Kingdom To the end of the subclause the following is added:	united whited united whit	N/A
ille mile	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	liek whitek whitek whitek	William M
5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	ITE MALTE
unitek whi	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	while while while while	H WALTER
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:	TEX WITE WITE WAITE	an car
	For separation of the telecommunication network from earth the following is applicable:	White white while w	EX AUT.
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	White white white whi	t LEX
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	The further white	ANT. A
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	TEX LIEX NUTER AN	un. Liet muite
	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	whitek whitek whitek whitek	ek metek met
	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 wh	TE WILTER
	and the state white white	in my my m	
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	t lift white white	un un Lieft van Lie
MILIEK WA	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	Mrtex Mrtex Mitex Mit	EK WATTEK



ale.	IEC62368-1	life, while many many	The This
Clause	Requirement – Test	Result – Remark	Verdict
The s	W W THE T	alle mile april	The Marie
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	united whites whites a	INITES WHITES
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; 	tree white while white	anties and
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	white white white	one were
LIEK WALT	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.	ter with miles and	EK WATER WAT
5.5.2.1	Norway	a at at at	N/A
	After the 3rd paragraph the following is added:	intite while whi	Mrs. Mrs.
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	WHITEK MATER MATER	MITER WALTER
5.5.6	Finland, Norwayand Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	The state of the s	y lift si
ynliek.	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.	. Whitek whitek whitek	White whitek
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuseswith higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	unite white whitek white	
MALTER	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	STER SUITER WITER	WALTER WALTER
5.6.4.2.1	Ireland and United Kingdom	M. M. A.	N/A
oneter and	After the indent for pluggable equipment type A, the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	nites whites whites whi	it whitek with







		IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.6.4.2.1	France	70, 70,	N/A
WINLTER WILL	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.	unitek unitek unitek unitek	WALTER ON
5.6.5.1	To the second paragraph the following is added:	at let let liet w	N/A
MULTER	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 mm²to 1,5 mm²in cross-sectional area.	White white white white	White!
5.6.8	Norway	a at at let	P
united est united	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	Mitter white white white w	THE WALLE
5.7.6	Denmark	701. 70	P
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	unifek unifek unifek unifek	WALTER W
5.7.6.2	Denmark	The state of the state of	Р
Multer .	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	whitek whitek whitek white	WALTE
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.	Liek untiek whitek untiek wat whitek water water whitek whitek whitek whitek whitek whitek whitek whitek whitek	LIE ON
	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.	itet whitet whitet whitest	TEX AND
	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:	TEE SEEK NIEK NIEK	VALIER



, ch,	IEC62368-1	LIE WALL WALL WALL	The the
Clause	Requirement – Test	Result – Remark	Verdict
Mr.		it with only only	me m
WALTER WAL	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	antiek whitek whitek whi	INLIER WALTER JUNE ER WALTER JUNE ER WALTER JUNE ER WALTER
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will	Whitek Muliek Muliek M	et tex
	also be accepted in Norway):	TER WALTER WALTER WALL	74 74 74 74 74 74 74 74 74 74 74 74 74 7
	"Apparatersom er koplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkoplet utstyr – og er tilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskal det vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet."	Whitek whitek whitek whitek	Whitek whitek w
WALTE WALTER	Translation to Swedish: "Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel- TV nätkanivissa fall medföra risk för brand. Förattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet."	WALTER WALTER WALTER	WALTER WALTER
8.5.4.2.3	United Kingdom	No external circuits.	N/A
	Add the following after the 2 nd dash bullet in 3 rd paragraph:	LIER WALTER WHILE WAS	- 12 TA
WALK	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.	THE WHITE WHITE	und und



in m	The St. St.	IEC62368-1	LIER WHITE WHITE WALL	mr m
Clause	Requirement – Test	Mur. My Co.	Result – Remark	Verdict

B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
3.4	The following is applicable:	mains	White.
	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	Whitek wh	LIFE WE WANTER
9.4.2	Denmark	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	CIEK WA
	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.	A MULTER MULTER MULTER MULT	WALLE WALLE
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended	MULTER MULTER MULTER WILLER	MALTER
	to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	MULTER WALTER	ALTER O
	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.	Whitek whitek whitek whitek	MULTER
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	TEX WITER MITER MITER OF	etek w
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	MILE MILES WALTER	MUTIER
	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	NUTER WHITER WHITER	IRLIEK V
	Justification:	in mur, mur, mur, and	1 2
	Heavy Current Regulations, Section 6c	L at at at at	Life Life







IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.4.2	United Kingdom	Not directly connected to t	the N/A	

G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	unite September 1981
	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	tiet whilet whilet whilet	EK MUT
WALTER	replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	MOLITEE MALIER MALIER MALIER	WILLEY
G.7.1	United Kingdom	at at let like	N/A
	To the first paragraph the following is added:	Will Mull Mull Mun Mun	100
	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.	TEK WILTER WILTER WILTER WILTER	TEX ON
ALTEK WA	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	THE MILITER WHITER W	ALTER V
G.7.1	Ireland	THE STATE OF THE PARTY OF	N/A
	To the first paragraph the following is added:	in the the the the	
K WHITEK WHITEK W LITEK WH	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	MULTER WHITER WHITER WHITER	White Whitek
G.7.2	Ireland and United Kingdom	. M. M. M.	N/A
	To the first paragraph the following is added:	it the the other out	" only
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	WILE MILES MILES SMITH	WALTER
ZC A	ANNEX ZC, NATIONAL DEVIATIONS (EN)	700	N/A



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		IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

10.5.2	Germany	No CRT within the equipment.	N/A
	The following requirement applies:	ALTER WALTER WALTER WALTER	
	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.	an worth whitek whitek w	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	MILIER WHITER WHITER WHITER	
TEK WAT	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	TEX WHITEK WHITEK WHITEK W	IFEK WY
ZD	IEC and CENELEC CODE DESIGNATIONS FOR	FLEXIBLE CORDS (EN)	Р





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an an	My Am Am	IEC62368-1	er write wri	Alex Alex
Clause	Requirement – Test	Mur. And And P	Result – Remark	Verdict

Type of flexible cord	Code de	signations
	IEC	CENELEC
PVC insulated cords	l	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cor	d 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 co	rd 60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-I
Ordinary halogen-free thermoplastic insulated as sheathed flexible cords	nd	H05Z1Z1-F H05Z1Z1H2-I



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110	The American	IEC62368-1	LIER WALLE WALLE WA	The Min
Clause	Requirement – Test	Mar. Mr. M.	Result – Remark	Verdict

5.2	TABLE: Classification of electrical energy sources				N/A		
Supply	Location (e.g.	Test conditions		Parame	ters		ES
Voltage	circuit designation)		U (V)	I (mA)	Type ¹⁾	Additional Info 2)	Class
EX STER	The EUT is designed to be	Normal	9VDC	A - A	SS	DC	ES1
9VDC		Abnormal	antile an	CL Marie	10, - 4	- 70,	20.
WALTER W	supplied by Type -C port	Single fault – SC/OC	TEK ST	ek unitek wi	LIEK-NIVE	EK WILLEY	MALTER.
Set S	IE OLITER MILITER	Normal	9VDC	T.	SS	DC	ES1
9VDC	Wireless Output	Abnormal	LEE TOLLER	WILL WILL	17/2	21/2 - 21/	20
LIEK WALTER	mir mi m	Single fault – SC/OC	TIEK .	ALTER WILLER	MALTEX.	UNLTEK WINLT	EK WALT

Supplementary information:

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

3)

Test Conditions:

Normal –Full load and no load.

Abnormal - Overload output short circuit; OC= open circuit SC=

5.4.1.8	TABLE: Working	voltage measur	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
-445 41	L 10, 2,	7.	it Jest Ni	Ele alleria	rie mi mr m
- (1 ^{E)} - (1	ER MITER MITE	WILL AUG	74, - 25,	-	et let let liet
Supplementa	ary information:				

5.4.1.10.2	1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method			: ISO 306 / B50	They are	_	
Object/ Par	t No./Material	Manufacturer/trademark	Thickness (mm)	T soften	ing (°C)	
71/2 21	, , , t	JEH STER WITER JOH	"MULL - MULL M	'u' -	10, 1	
Supplemen	tary information:					
1. 2.		EX CIEX NITE NITE	Wer wer war	7/12	<i>b</i>	

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics				N/A			
Allowed impression diameter (mm)			:	≤ 2 m	m, At A	الله الم	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	lmp diame	ression eter (mm)

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77/2	711. 22	IEC	32368-1	INLIE WALL	W.L.	me m
Clause	Requirement – Test	in which in	R	esult – Remark	, it	Verdict
The same	24. 24. 1. 1.	د. <u>څ</u> ر ا	CENT SEE	LIFE WITE	WE W	The same
- 1	THE LIES THE WITE	WILL MY	n-	711		et - et
Suppleme	entary information:			·	·	
at .	TEX LITER SLITER MITE	WILL WILL	24, 24,		A 18	- 18th 5
Vr. 92	24. 24. 2.		18 A	(c) (d) (d)	3. 10.	ar ar

								500
5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between: $ \begin{array}{c ccccc} U_p & U_{rms} & Freq^{1)} & Required & cl & E.S.^2) & Required \\ (V) & (V) & (kHz) & cl & (mm) & (W) & cr & (mm) \\ \end{array} $								cr (mm)
- nite mil was war	27/2	24	- ,		16 <u>1-</u>	56t- 5	The Table	WILL.
Supplementary information:								
1) Only for frequency above 30 Complete Electric Strength voltage		(V) wh	en 5 4 2	4 applied)	IEK MIT	ek walte	r white v	2)

5.4.4.2	TABLE: Minimum	distance through insul	lation	MULL MULL	N/A
Distance the (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
, , ,	Tet Tet NI	MILIE WILL WAS	1425.	* - *	et - et
Supplement	tary information:				
*See also s	ub-clause 5.4.4.9	11/12 11/2		A 1.	et let i

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
							(Vpk)
- WILL MAIL MAIL M	in the		#	- TEX JE	- CLIER OF	<i>\$</i>	W.L.
Supplementary information:							
will mer me	24			CENT SER	alien mi	11.	

5.4.9 TABLE: Electric strength tests	at at at	TEK LIEK NIF	N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	Mr. M. M.	1 1 1	LET LET
-sure and an an an	- JEK STER MIT	- white white w	4 m n
Basic/supplementary:	1/1 2/1 2/1	at alt a	CEP SEP ST
ar all all the	TIEK STIER WITE	and and an	1915 191
Reinforced:	. 4	at at all	t tek te
w	EL WILL WILL IN	Try Mrs. Mrs.	24 24.
Routine Tests:		at let let	LIFE SLIFE
will start out the start out the	- Inite white whi	- m m	2, Z,
Supplementary information:			



The Maria	All All All All A	IEC62368-1	LIET MITTER WALTER	VILL MULL MAY
Clause	Requirement – Test	in wir we wa	Result – Remark	Verdict

5.5.2.2	TABLE:	Stored discharge of	on capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
, n _			Normal	aner aner	245 21/L	10, - 10,
LER MUTLE	MULTER	WELL MATE MUSE	Single fault: SC/ OC	TEK MITEK	ALTER WALTER	MULTER MULT

X-capacitors installed for testing are:[] bleeding resistor rating:

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

5.6.6 TABLE: Resistance of	protective condu	uctors and terminati	ons	N/A				
Location								
m, m, m, m	25 At 2	TER OLITER MITE	Will - Mil	any -an				
Supplementary information:								
211 211 211	4 A A	ET THE CLIFE	WILL WALL M	2, 24, 2				

5.7.4 TABLI	E: Unearthed acces	ssible parts	All All	MALIL	"NE" 2	N/A
Location	Operating and fault conditions Supply Voltage (V)		pply Parameters			
		Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
L/N to secondary	Normal	7	stst .	et the	EL - LIE	NATE.
terminals	Abnormal: overload	MAINE WA	and the	- 11 - 11 - 11 - 11	TEX	STEET S
	Single fault: SC/ OC	MALTEL WALTE	White white	Mur - Mur	~n	767 - 40
Supplementary info	rmation:					
SC= short circuit; C	DC= open circuit	THE WILL	Mr. M.	20		et est

5.7.5	TABLE: Earthed acces	TABLE: Earthed accessible conductive part			
Supply vol	tage (V)	- "	it it	TEK STE	_
Phase(s) .		[] Single Phase; [] Three F	Phase: [] Delta [] Wye	
Power Dis	tribution System	[] TN [] IT	et et	TEN TEN	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commer	nt
- OVE	24, 24, 24	A 18- 5th 5	CONTRACTOR	Wir. Aur	The.
t et	TEK ITEK SITEK IN	the me me me	70.	A 18	- 20
Suppleme	ntary Information:	·			
1	at at all of	EL TUTT AUT AUT	20, 20,		, t



Late March	Mr. Mc an in	IEC62368-1	ITEN OUTEN MALIER W	THE M	T. Chr.
Clause	Requirement – Test	Marie Marie Marie	Result – Remark	et a	Verdict

5.8 TABLE: Backfeed safeguard in battery backed up supplies						N/A			
Location	Supply Operating and voltage (V) condition		ult Time (s) Open-circi voltage (\		Touch current (A)	ES Class			
STE WILL WILL	mr m	40 - 40	76 * .1	et out	LIER - NIE	white whi			
Supplementary information:									
the all the	me m	<i>2</i> 0,	at at	- 18th 13	er liv	Will Will			

6.2.2 TABLE: Power source circuit classifications						P
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
9V input	Pin + to -	9.0	2.1	18.9	5S	PS2
Wireless ou	tput Output	9.0	1.67	15.0	5S	PS2
	tput Output	9.0	1.67	15.0	5S	أثاري

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

6.2.3.1 TABLE: Detern	.2.3.1 TABLE: Determination of Arcing PIS								
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s Calculated value current (A)		Arcing PIS? Yes / No					
- ", \	Et T WITE	, Lit , ,	211 211	20 -					
Supplementary information:									
	at at the	with any with	2/12 24	200					

6.2.3.2 TABLE: Determination of resistive PIS								
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
All primary circuits/components	MULTER MULTE MULT MULT		Yes (declaration)					

Supplementary information:

All circuits are considered as resistive PIS; A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

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

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

8.5.5 TABLE: High	pressure lamp	t st	est of the	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- At 18t 18t	II * NITE WALL W		1 - 1t	# - #
Supplementary information:				





Š	The Children	We have all the	IEC62368-1	TEX WITE WALLEN	- Remark Verdict	The same
a d	Clause	Requirement – Test	The The The	Result – Remark	et d	Verdict

Supply voltage	(V)		9.0V	d 5			LIV JUN	_	
Max. transmit p	ower of trans	mitter (W)	15W	2 10	20,		at as	_	
w/o receiver and direct contact				eiver and contact		iver and at of 2 mm	with receiver and at distance of 5 mm		
Foreign object	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Steel disc	26.9	24.3	35.6	24.5	27.8	24.5	26.3	24.8	
Aluminum rin	g 26.5	24.3	32.9	24.2	27.1	24.4	26.0	24.9	
Aluminum foi	26.5	24.1	33.5	24.8	27.3	24.6	26.2	24.8	

5.4.1.4, 9.3, B.1.5, B.2.6	perature me	easureme	nts				nii Pi
Supply voltage (V)		:	9VDC	9VD0	OFF	MILE WILL	
Ambient temperature durin	g test T_{amb} (°C):	22.2	40.0	30	1 1 - 1	_
Maximum measured temper	part/at:		7	r(°C)		Allowed T _{max} (°C)	
Wireless winding		51.8	69.6	-35-3	N. C.L.E.	Ref.	
Type-c input terminal	LEK MUST	56.8	74.6	111 - 72,		, 77 _{,+}	
C31 W W	e et	58.7	76.5	LIE NOTE	1717 W	105	
PCB near U1	CTER INLTE	Mill	63.3	81.1	7, -7	,,(130
Plastic enclosure inside	, ,,		46.6	64.4		11-11-11-	Ref.
TEX TEX LITER OUT	ER SALTE	Acce	essible of 2	25°C		at all	- JE+ J
External surface of enclosur	re	<i>*</i>	41.0	43.8	" Light - "	100	77
Ambient	Ambient			25.0	·	# 7 64	JEK - JIEK
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
- ne me me	"	- 6	7 5	50th 5	TER WILL	11/1- ch	1, 20, 1

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

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 40° C.

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



The Maria	All All All All A	IEC62368-1	LIET MITTER WALTER	VILL MULL MAY
Clause	Requirement – Test	in wir we wa	Result – Remark	Verdict

B.2.5	T	ABLE: Inp	out test					P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
9		1.98	2.0	17.82	18.0	-2+	Tet-	TER SITER WITE SMIT IN

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

B.3, B.4 T.	ABLE: Abnor	mal operatin	g and fau	ılt condit	ion tes	sts	Mrs. Mrs. My	√ ₀ P
Ambient temp	erature T _{amb} (°	°C)	1000	n 2,	:	See b	pelow	_
Power source	for EUT: Man	ufacturer, mo	del/type,	outputrati	ng:	5. "	her her m	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	1
9V Wireless output	0-1	9.0VDC	1H	unliek Viek (v	ALTEK FEK	WILLEX	PCB near U1:81.7°C Ambient: 40.0°C External enclosure nea charger:45.6°C Ambient: 25.0°C	ar wireless
C1	s-c	9.0VDC	10mins	EK NIT	-	10th	Unit shut down immed damage, no hazard. Recoverable.	iately. No

Supplementary information:

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

M.3	TABLE: Pro	otection circu	ection circuits for batteries provided within the equipment					
Is it possible	e to install the	battery in a re	verse polarity	position?:	The Will	Alex Alex	_	
				Charç	ging			
Equipment Specification Voltage (V			Voltage (V)	V)		Current (A)		
		Mar 1	<i>y</i>	at at	TEX.	TER STEE	WITE WALT	
				Battery spe	ecification			
		Non-recharge	eable batteries		Rechargea	ble batteries		
		Discharging	Unintentional	Char	ging	Discharging	Reverse	
Manufac	cturer/type	current (A)	charging current (A)	Voltage (V)	Current (A)	current (A)	charging current (A)	

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



				IEC	62368-1						
Clause	Require	ment – Test	WILL WA	٠ ،	11 24	Re	sult –	Remark	at-		Verdict
They a	10 M	200			16th 5	·	J. (1)	CLITE	ares.	ne i	an,
et a	et s	SELF STEP	NITE WITE	21/2	2/1/2		,	20.	, de	*	, et
Note: The tes	sts of M.	3.2 are applica	ble only whe	n abov	e appropi	riate d	data is	s not avail	able.		
Specified bat	ttery tem	nperature (°C).			20.	~		1	0-45	e.t	
Component No.	Faul conditi			est me	Temp.		rrent A)	Voltage (V)	0	bserva	ation
NE WALLE	ar c	110.	20 2	, L	LEF .	JEK.	اک	ik olife	MLTL	dres	20/2
Supplementa	ary inforn	nation:									
		nort circuit; OC o emission of fl						e; NS= no	o spillage	of liqu	uid; NE
	TABLE: battery	Charging saf	feguards for	equi	pment co	ontaiı	ning	a second	lary lithi	um	N/A
Maximum sp	ecified c	harging voltag	ie (V)			1000	- N	()	·		
		marging voltag	,0 (v)	74,						-2	
Maximum sp		charging currer					<u> </u>	<u> </u>	- TEK	-3	
	ecified c		nt (A)		80° 24	:	اران اعتنامان		MULTER	n,	<u> </u>
Highest spec	pecified co	charging currer	nt (A) ature (°C)				المارين المارين المارين	- white	WATER WATER	un.	
Highest speci Lowest speci Battery	pecified of characteristics of the characteri	charging currer arging tempera arging tempera Operating	nt (A) ature (°C)			.:	unite unite		Obse	ervatio	 on
Highest spec	pecified of characteristics of the characteri	charging currer arging tempera arging tempera	nt (A) ature (°C)	Mea		: .::	emp.	- MILLER	Obse	ervatio	 on
Highest speci Lowest speci Battery	pecified of characteristics of the characteri	charging currer arging tempera arging tempera Operating and fault	ature (°C) ture (°C) Charging	Mea	asurement	: .::		The state of the s	Obse	ervatio	 on
Highest speci Lowest speci Battery	pecified of characteristics of the characteri	charging currer arging tempera orging tempera Operating and fault condition	ature (°C) ture (°C) Charging	Mea	asurement	: .::			Obse	ervatio	 on
Highest speci Lowest speci Battery	pecified of characteristics of the characteri	charging currer arging temperar Operating and fault condition	ature (°C) ture (°C) Charging	Mea	asurement	: .::		The same	Obse	ervatio	 on
Highest speci Lowest speci Battery	cified cha cified cha r/type	charging currer arging tempera Operating and fault condition Normal Abnormal Single fault – ()	ature (°C) ture (°C) Charging	Mea	asurement	: .::		TOP THE	Obse	ervatic	
Highest speci Lowest speci Battery manufacturer Supplementa Abbreviation	cified charified charified charified charified charified charify ary informatic SC= shockified co	charging currer arging tempera Operating and fault condition Normal Abnormal Single fault - () mation: nort circuit; OC charging currer	ature (°C) ture (°C) Charging voltage (V)	Mea Ch cur	asurement narging rent (A)	mum	spec	ified char	ging volta	age; M	ISCC=

Q.1	TABLE: Circuits inter	nded for inte	erconnectio	n with build	ding wiring	(LPS)	N/A
Output Circuit	Condition	11 (\)	Time (a)	I _{sc}	(A)	S	(VA)
		U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
ITEH N	The parties while wh	100	111, 12,	4 14	e+	Et JEX	ALTER O
		y JEH	ALTER MIT	WILL	aven an	. Ale	20 20
	WILL WILL MULL	70		x	10 K	TEK	STER INT
	1 1	JEE S	THE WITE	Mr. Mr.	r. an	711. 1	
Supplemen	ntary Information:					<u> </u>	

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



110	The American	IEC62368-1	LIER WALLE WALLE WA	The Min
Clause	Requirement – Test	Mar. Mr. M.	Result – Remark	Verdict

T.2, T.3, T.4, T.5	TABLE: St	the that their miles make				
Location / Part	Material Thickness (mm)		Probe	Force (N)	Test Duration (s)	Observation
Enclosure top(T.4)	Plastics*	See table 4.1.2	NITE W	100	5	Enclosure remained intact, no crack/opening developed
Enclosure side(T.4)	Plastics*	See table 4.1.2	TER WHITE	100	5	Enclosure remained intact, no crack/opening developed
Enclosure bottom (T.4)	Plastics*	See table 4.1.2	K WALTER	100	w 5 w	Enclosure remained intact, no crack/ opening developed
Supplementa	ry information	on:				

T.6, T.9	ABLE: Impa	ct test			N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	
MULT WILL	11/2 1	1, 1, 2	L At	TEX SITES MITES MITE WALL	Mr. a
A A	1 d 1		7,20	The same of the sa	et .
her and	10 V A	FAW	LEX.	TE AT INTE WALL	mr. m
Supplementary	/ information	:			
*Test was perf	ormed on pro	oduct with each sou	rce listed in	table 4.1.2.	Le all

T.7 T	ABLE: Drop	test		TEX LITER PLITE WALTE WALL WALL WE
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementary	/ information	:		

T.8 T.	ABLE: Stress	s relief test	White M	r. aur	m m	Р
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no cracking/opening developed in enclosure joint. No hazards.	



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Late March	IEC62368-1							
Clause	Requirement – Test	Marie Marie Marie	Result – Remark	et a	Verdict			

Supplementary information:

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

X TABLE: Alternat	tive method for determini	ng minimum clearances	s distances N/A
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
- 1	et ret - the and	MULL AUT. AU.	24 25
Supplementary information:			
a state	H TEH STEEN MITTER	Mr. Mr. Mr.	An An

NOT OF STREET STREET, STREET,



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in m	The St. St.	IEC62368-1	LIER WHITE WHITE WALL	mr m
Clause	Requirement – Test	Mur. My Co.	Result – Remark	Verdict

4.1.2	TABLE: Critical comp	onents informa	tion		Jt Pt
Object / part No.	Manufacturer/ trademark	Type / model Technica		Standard	Mark(s) of conformity ¹
PCB	Jiangxi Zhong Xin Hua Electronics Industry Co Ltd	ZXH-2	130°C, V-0	UL 796	UL E331298
(Alternative)	Interchangeable	Interchangeabl e	Min. 105°C, V-0	UL 796	UL
Plastic enclosure	Korea Kumho Petrochemical Co Ltd	ABS-710	HB, min. thickness: 1.5mm, 70°C	UL94	UL E65424
Wireless coil	Shenzhen Defuruilin Electronics Technology Co., Ltd.	A11	6.3±10% µH at 100КHz, 130°С, N1: Ф0.08mm x 105Р x 10Тs	IEC/EN 62368- 1	Tested with appliance

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



Photo Documentation

Reference No.: WTF22D06125210Y





Figure 1: Overview



Figure 2: Overview

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Figure 3: Overview



Figure 4: Overview



Photo Documentation

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Figure 5: Internal view

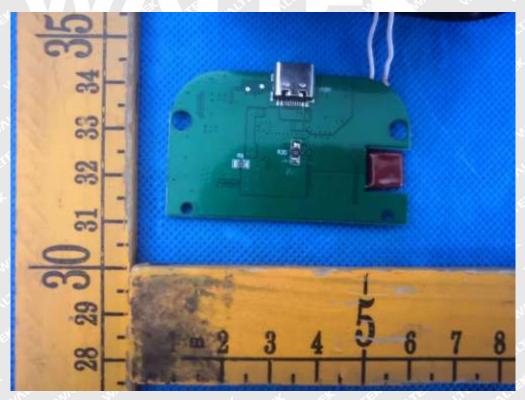


Figure 6: PCB



Photo Documentation

Reference No.: WTF22D06125210Y



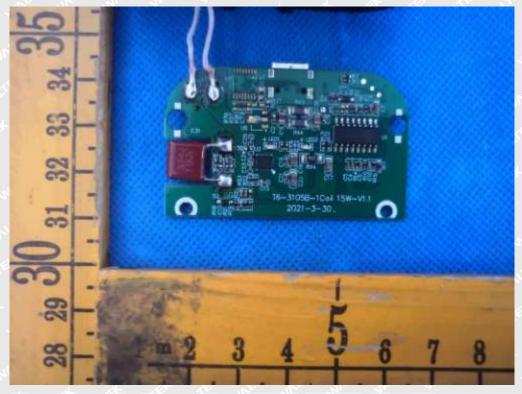


Figure 7: PCB

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