



TEST REPORT

Reference No..... : WTF24D03067594R1Y

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

Hong Kong

Manufacturer..... : 118897

Address.....: --

Product.....: Smart wireless health watch

Model(s)..... : MO2270

Total pages.....: 67 pages and 4 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample.... : 2024-03-29

Date of Test.....: 2024-03-29 to 2024-04-08

Date of Issue.....: 2024-06-24

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:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Tel:+86-769-2267 6998
Fax:+86-769-2267 6828

Compiled by:

Approved by:

Almon Zhao / Project Engineer

Deval Qin / Designated Reviewer

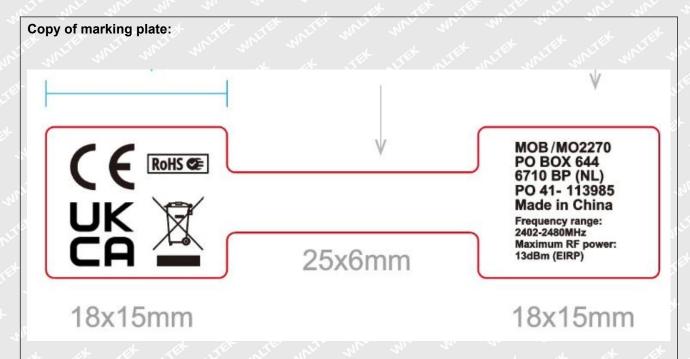
Devalgin



Reference No.: WTF24D03067594R1Y Page 2 of 67

Test item description	Smart wireles	s health watch
Trademark	MOB	
Model and/or type reference:	MO2270	
Rating(s):	Input: 5VDC Battery: 3.7V,	90mAh
Remark:		
Whether parts of tests for the product h	ave been subc	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lak	information:	
Test items:		
Lab information:	- 18 N	the wife with him in any and any
Summary of testing:	Aug. M.	
Tests performed (name of test and to	est clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020 The submitted samples were found to d	comply with	No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
the requirements of above specification		atter atternation with with
All tests based on the previous report n WTF24D03067594Y updated the label.		THE TEX STEX STEEL STIFF SINGER SUNTER
Summary of compliance with Nation	al Differences	(List of countries addressed):
write while many many min		
EU Group Differences		
LIFE MIT MY MY ST	211,	
☐ The product fulfils the requirements	of EN IEC 623	68-1:2020+A11:2020.
Use of uncertainty of measurement t	for decisions	on conformity (decision rule) :
		rd, when comparing the measurement result with the
applicable limit according to the spec	cification in tha	at standard. The decisions on conformity are made acceptance" decision rule, previously known as
MULL MALL MALL MAR MI		
Other: (to be specified, for examp requirements apply)	le when require	ed by the standard or client, or if national accreditation
Information on uncertainty of measu	rement:	
	•	the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on the decision rule when reporting tes	st results withi	n of measurement uncertainty principles and applying in IECEE scheme, noting that the reporting of the necessary unless required by the test standard or
	alues are on fil	e with the NCB and testing laboratory that conducted





Remark:

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



Reference No.: WTF24D03067594R1Y Page 4 of 67

TEST ITEM PARTICULARS:	
Product group	
Classification of use by	☑ Ordinary person☑ Instructed person☑ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	□ A; Location: □ building □ equipment □ N/A
Equipment mobility:	 □ movable □ 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)	⊠ 0.019kg



Reference No.: WTF24D03067594R1Y Page 5 of 67

POSSIBLE TEST CASE VERDICTS:	WHIT MAY MAY WAS THE
- test case does not apply to the test object	: N/A
- test object does meet the requirement	: P (Pass)
- test object does not meet the requirement	: F (Fail)
TESTING:	An In the lite
Date of receipt of test item	: See cover page.
Date (s) of performance of tests	: See cover page.
GENERAL REMARKS:	LIER SLIER WILL WHILL MALL WALL WALL
"(see appended table)" refers to a table appended to Throughout this report a ☐ comma / ☒ point is GENERAL PRODUCT INFORMATION:	70 70 70
Product Description 1. The equipment with model MO2270 is Smart wirel 2. It is powered by USB port conformed to LPS or po 3. The maximum operating temperature is 40°C.	
Model Differences N/A	NITER WHITE WHITE WHITE WHE WAS THE
Additional application considerations – (Considerations – (Conside	erations used to test a component or sub-



Reference No.: WTF24D03067594R1Y Page 6 of 67

Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
ES1: Lithium Cell	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
PS1: <15 Watt circuits (Battery circuit)	PCB	N/A	N/A	N/A
PS2: ≥15 and <100 Watt circuits (All circuit except for the battery circuit)	PCB	Equipment Safeguards	N/A	N/A
7	Injury caused by hazardous	substances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A A L	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part Safeguards			
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED for indicating	Ordinary	N/A	N/A	N/A



Reference No.: WTF24D03067594R1Y Page 7 of 67

ENERGY SOURCE DIAGRAM

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

 $oxed{oxed}$ ES $oxed{oxed}$ PS $oxed{oxed}$ MS $oxed{oxed}$ TS $oxed{oxed}$ RS

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

MATERIE



Reference No.: WTF24D03067594R1Y Page 8 of 67

AV 31		2 2		
Un aller		IEC 62368-1	life, while while w	Vr. Mer All
Clause	Requirement – Test	in mure mir m	Result – Remark	Verdict

70.	CENEDAL DECLUDEMENTS		
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	WP.
	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	WALLEY WALL
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	an an	N/A
4.4.3.2	Steady force tests	THE TENTE STIFF	N/A
4.4.3.3	Drop tests	ur au au a	N/A
4.4.3.4	Impact tests	get litt slitt milet ini	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
ris and	Glass impact test (1J)	LIER WITER WHILE WHILE	N/A
et et	Push/pull test (10 N)	r tot	N/A
4.4.3.8	Thermoplastic material tests	y the invite while we	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E MALL MALL WALL WALL WALL	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	alter wife while war v	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	IEF P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	NIV P



N/A

N/A

N/A

N/A

N/A

N/A

N/A N/A

Ρ

N/A

N/A

N/A

Reference No.: WTF24D03067594R1Y Page 9 of 67

IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
The	AN AN A ART OF	it with the sale and	is the
	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	N/A
LITE WA	Fix conductors not to defeat a safeguard	TEX LIES NITES INTER	N/A
4 1	Compliance is checked by test	the the the	N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	et alies white while wh	N/A
4.8	Equipment containing coin/button cell batteries	S	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	TEX STEX WITE WITE	N/A
4.8.3	Battery compartment door/cover construction	1 24 24	N/A
WILL	Open torque test	EX SITER NITER SINITE SI	N/A
		(1) (2)	

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		P
5.2.2	ES1, ES2 and ES3 limits	Mrs. Mrs. Mrs. Mrs.	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
5.2.2.7	Audio signals	The The Annual Control	Р
5.3	Protection against electrical energy sources	t if the liter out to only	Р

Likelihood of fire or shock due to entry of conductive object

4.8.4.2

4.8.4.3

4.8.4.4

4.8.4.5

4.8.4.6

4.8.5

4.9

4.10

4.10.1

4.10.2

Stress relief test

Drop test

Impact test

Crush test

Compliance

Battery replacement test

30N force test with test probe

20N force test with test hook

Component requirements

Disconnect Device

Switches and relays



Reference No.: WTF24D03067594R1Y Page 10 of 67

01	IEC 62368-1		1,7 1: 1
Clause	Requirement – Test	Result – Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	The let the st	Par
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	They show they are	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	NITER WHITER WHITER WHITER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
WALLE OF	Accessibility to outdoor equipment bare parts	t liet wife wife wh	N/A
5.3.2.2	Contact requirements	7/1 // //	N/A
iner win	Test with test probe from Annex V	alter while while while	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	n a to	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIET MILE WALL MILE.	N/A
5.3.2.3	Compliance	s to the state	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at the state of	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	at the 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)	Р
5.4.1.5	Pollution degrees	ITE WALTE WALL WALL !	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* TITER WITER WITER WY	N/A
5.4.1.5.3	Thermal cycling test	The second second	N/A
5.4.1.6	Insulation in transformers with varying dimensions	CLIEF WILL WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	and the self-	N/A
5.4.1.8	Determination of working voltage	rite until until until	N/A
5.4.1.9	Insulating surfaces	a state of	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	MULL MULL MILL M	N/A
5.4.1.10.2	Vicat test	CHIER WALLE WALLE WAL	N/A
5.4.1.10.3	Ball pressure test	The state of the	N/A
5.4.2	Clearances	WITE MUTTE WALL WHILE	N/A
5.4.2.1	General requirements	L A A A	N/A
k lek	Clearances in circuits connected to AC Mains, Alternative method	The Marie Marie Marie	N/A
5.4.2.2	Procedure 1 for determining clearance	ex niter white white wh	N/A
All the second	Temporary overvoltage	70 St Ct C	e —
5.4.2.3	Procedure 2 for determining clearance	alie wife with wall	N/A



Reference No.: WTF24D03067594R1Y Page 11 of 67

Clause	IEC 62368-1	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.4.2.3.2.2	a.c. mains transient voltage	Mr. Mr. M	
5.4.2.3.2.3	d.c. mains transient voltage	18 11 AL	Mile _
5.4.2.3.2.4	External circuit transient voltage	mer av av	7F
5.4.2.3.2.5	Transient voltage determined by measurement	The still out the	NITE"
5.4.2.4	Determining the adequacy of a clearance using an	he me me	N/A
3.4.2.4	electric strength test	TEX OLIEK WITER WA	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t let like like	N/A
5.4.2.6	Clearance measurement	Mr. Mr. Ang	N/A
5.4.3	Creepage distances	TEX LIET OLIET	N/A
5.4.3.1	General	111 111 11	N/A
5.4.3.3	Material group	STEK SLIEF WITER SI	- L
5.4.3.4	Creepage distances measurement	70, 20, 2	N/A
5.4.4	Solid insulation	Et niet wiekent	N/A
5.4.4.1	General requirements	(t)	N/A
5.4.4.2	Minimum distance through insulation	WILL ANTIE MUTTE	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	The same of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	The Mer Mer M.	N/A
5.4.4.6.1	General requirements	t let let let	N/A
5.4.4.6.2	Separable thin sheet material	Mur Mr. M.	N/A
WHEE WA	Number of layers (pcs)	TEK JEK STEK	N/A
5.4.4.6.3	Non-separable thin sheet material	my my m	N/A
The Will	Number of layers (pcs)	TEK TEK WIELD	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at let let	N/A
5.4.4.6.5	Mandrel test	wer me me	N/A
5.4.4.7	Solid insulation in wound components	- TEX STEX STER	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	Any Any Any	N/A
TER TER	Alternative by electric strength test, tested voltage (V), K _R	write were were	N/A
5.4.5	Antenna terminal insulation	LIER WALTER WALLE WA	N/A
5.4.5.1	General	st st st s	N/A
5.4.5.2	Voltage surge test	WALTE WALT WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	1 4 4	N/A



Reference No.: WTF24D03067594R1Y Page 12 of 67

42,	IEC 62368-1	er aur me m.	20 0.
Clause	Requirement – Test	Result – Remark	Verdict
The .		E WILL WILL WILL	11/2
- 12 5	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MUTTE MUTT MUTT AND	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITEK WALTER WALTER WALT	N/A
5.4.8	Humidity conditioning	at let telt itelt	N/A
- (1)k	Relative humidity (%), temperature (°C), duration (h)	is must me my	70
5.4.9	Electric strength test	A STEE WITE WITE A	N/A
5.4.9.1	Test procedure for type test of solid insulation	4	N/A
5.4.9.2	Test procedure for routine test	NITER WITE WITE WITE	N/A
5.4.10	Safeguards against transient voltages from external circuits	THE MILES MITTER MALTE	N/A
5.4.10.1	Parts and circuits separated from external circuits	, , , , , , , , , , , , , , , , , , ,	N/A
5.4.10.2	Test methods	EX WILL MULL MULT	N/A
5.4.10.2.1	General	a at alt	N/A
5.4.10.2.2	Impulse test	WILL MULL MILL M	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	a fair an	N/A
5.4.11	Separation between external circuits and earth	ITES WITH WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	t liet slight might	N/A
5.4.11.2	Requirements	7/1 // //	N/A
wer we	SPDs bridge separation between external circuit and earth	MILLER MULTER MULTER AN	N/A
Life Mali	Rated operating voltage U _{op} (V)	TEX STEX SLIER BLIE	_
4 4	Nominal voltage U _{peak} (V)	L. M. M. D.	_
MULTER	Max increase due to variation ΔU _{sp}	Et allet rates ancies	_ n_
at the	Max increase due to ageing ΔU _{sa}	11/1 11/1 11/1	
5.4.11.3	Test method and compliance	OLIE WILLER WALTER	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements	MITE WALL WALL THE	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid	LIE MILL WHILL WHILL	N/A
5.4.12.4	Container for insulating liquid	at the left	N/A
5.5	Components as safeguards	MULL MULL MILL	N/A
5.5.1	General	No such components as safeguards.	N/A



Reference No.: WTF24D03067594R1Y Page 13 of 67

Clause	IEC 62368-1	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.5.2	Capacitors and RC units	The Trip of	N/A
5.5.2.1	General requirement	alier while while	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEX TEX STEX II	N/A
5.5.3	Transformers	the the the	N/A
5.5.4	Optocouplers	TER STER WITER WAL	N/A
5.5.5	Relays	111 22	N/A
5.5.6	Resistors	E STEEL WITE WITE	N/A
5.5.7	SPDs	20, 2, 4	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	antier matter mais a	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIEF WHILEK WHILE WH	N/A
JALTER .	RCD rated residual operating current (mA)	et get get gr	· · ·
5.6	Protective conductor	and the m	N/A
5.6.2	Requirement for protective conductors	t crest cirent outless	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	ALTER N	N/A
5.6.3	Requirement for protective earthing conductors		N/A
Murr	Protective earthing conductor size (mm²)	Life out of Miles was	· ' ' - '
	Protective earthing conductor serving as a reinforced safeguard	of the the street street	N/A
STEK "	Protective earthing conductor serving as a double safeguard	THE AND THE	N/A
5.6.4	Requirements for protective bonding conductors	mer mer mer	N/A
5.6.4.1	Protective bonding conductors	Let Let West	N/A
J 28	Protective bonding conductor size (mm²)	ive me me m	_
5.6.4.2	Protective current rating (A)	Et ITEK NITEK NIT	N/A
5.6.5	Terminals for protective conductors	74 74 74 74 Th	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	White white white	N/A
inlier wh	Terminal size for connecting protective bonding conductors (mm)	WALTER WALTER WALTER W	N/A
5.6.5.2	Corrosion	at the state of	N/A
5.6.6	Resistance of the protective bonding system	File Mury Mury Mury	N/A
5.6.6.1	Requirements	at all all all	N/A
5.6.6.2	Test Method	MUL MUL MUL	N/A
5.6.6.3	Resistance (Ω) or voltage drop	at at at	N/A



Reference No.: WTF24D03067594R1Y Page 14 of 67

IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.6.7	Reliable connection of a protective earthing conductor	the return of the set	N/A
5.6.8	Functional earthing	me me me m	N/A
LIFE WAL	Conductor size (mm²)	TEK ITEK NITER MITER	N/A
	Class II with functional earthing marking	We are any are	N/A
it was	Appliance inlet cl &cr (mm)	TEX LIER SLIER WITE .	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	et alter miter military	N/A
5.7.2.1	Measurement of touch current	10, 1, ,	N/A
5.7.2.2	Measurement of voltage	SLIED WILL WALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	THE LIER SLIER WIFER	N/A
5.7.4	Unearthed accessible parts	2 14 10 1	N/A
5.7.5	Earthed accessible conductive parts	EX LITER OUTER SOUTH ON	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	Tet Itt Litet ni	N/A
	Protective conductor current (mA)	Mr. Mr. An.	N/A
NITE WILL	Instructional Safeguard	At SUITE MITE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	The life	N/A
5.7.7.1	Touch current from coaxial cables	in me me m	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	* White white white on	N/A
5.7.8	Summation of touch currents from external circuits	NITER MITER WHITER WHITE	N/A
LITES MINL	a) Equipment connected to earthed external circuits, current (mA)	TER LIER MITER MITER	N/A
EK NITEK	b) Equipment connected to unearthed external circuits, current (mA)	at get get get	N/A
5.8	Backfeed safeguard in battery backed up suppl	lies which which will be	N/A
NUTER	Mains terminal ES	No battery used	N/A
20, 1	Air gap (mm)	me, me me m	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	of the text the	CIE P CIT
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 VINLTEK



Reference No.: WTF24D03067594R1Y Page 15 of 67

0 1	IEC 62368-1		1,7
Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	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)	WELL P.
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P VINITE
in in	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	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX INCIEX WATER WALTER W	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Lifet SLIFET MITER MILE	N/A
6.4.3.1	Supplementary safeguards	ALL ALL AND AL	N/A
6.4.3.2	Single Fault Conditions	LEX MILL MILL	N/A
et di	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	TER WITE WALL WALL	Р
6.4.5	Control of fire spread in PS2 circuits	in the state of	P.
6.4.5.2	Supplementary safeguards	antil while whi	N/A
6.4.6	Control of fire spread in PS3 circuits	the lite of	N/A
6.4.7	Separation of combustible materials from a PIS	WILL MULL MULL MULL	N/A
6.4.7.2	Separation by distance	at let tet tret	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	of the text of	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	any any a	N/A
6.4.8.2.1	Requirements for a fire barrier	- the the wife and	N/A
6.4.8.2.2	Requirements for a fire enclosure	me me me	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	While while while while	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	at let let liet	N/A
6.4.8.3.2	Fire barrier dimensions	is me me	N/A
6.4.8.3.3	Top openings and properties	et let let let let	N/A
-A	Openings dimensions (mm)	Mur Mu M. M.	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A



Reference No.: WTF24D03067594R1Y Page 16 of 67

	IEC 62368-1	of the same of the same	2, 2
Clause	Requirement – Test	Result – Remark	Verdict
Me	THE STATE OF THE STATE OF	the wife with the way	- Tall
- Cit	Openings dimensions (mm)		N/A
מוזי מו	Flammability tests for the bottom of a fire enclosure	white white white white	N/A
Lier Wil	Instructional Safeguard	TEX LIEX OLIER MITE	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
MALIT	Openings dimensions (mm)	TEX SITEX WITER WITE W	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	WITH THE THE	N/A
6.4.9	Flammability of insulating liquid	Write Mrs. Mrs. Mrs.	N/A
6.5	Internal and external wiring	at the text text	TE P
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P TEX
6.5.2	Requirements for interconnection to building wiring	White white white whi	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to additional equipment		P
"av	an a sk let	The de structure.	in an
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	1 /6 /0	P
7.2	Reduction of exposure to hazardous substance	es the with the	N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
26t 3	Personal safeguards and instructions	the state of the s	_
7.5	Use of instructional safeguards and instruction	S.T. WILL WILL WILL	N/A
JEH JEH	Instructional safeguard (ISO 7010)	at the set	_
7.6	Batteries and their protection circuits	the worth water was a	Р
<u>Att</u>	THE THE STILL WITH MILE ME TO		Et 18th
3	MECHANICALLY-CAUSED INJURY		J/P
3.2	Mechanical energy source classifications	and the second	Р
3.3	Safeguards against mechanical energy sources	CHUTT MUTT MUT MUT MUT	711. B 2
3.4	Safeguards against parts with sharp edges and	corners	JE P
3.4.1	Safeguards	The way were and	Р
WALTER	Instructional Safeguard:	MS1: Edges and corners of enclosure	TEK PITE
3.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	⊢ Po



Reference No.: WTF24D03067594R1Y Page 17 of 67

in in	All the	IEC 62368-1	r. Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

Ciddoo	The state of the s		-11
8.5	Safeguards against moving parts	The Me me in	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
LIFE WALF	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
Et SLIER	Moving MS3 parts only accessible to skilled person	et set set set	N/A
8.5.2	Instructional safeguard	The August August	N/A
8.5.4	Special categories of equipment containing moving parts	t united market water wat	N/A
8.5.4.1	General	at at telt stell	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	antit mer mer me	N/A
8.5.4.2.1	Protection of persons in the work cell	of let list list	N/A
8.5.4.2.2	Access protection override	in my my m	N/A
8.5.4.2.2.1	Override system	Et ITER STEET NITER OF	N/A
8.5.4.2.2.2	Visual indicator	111 111 111	N/A
8.5.4.2.3	Emergency stop system	LIER SLIER WITE WALL	N/A
NITER MILI	Maximum stopping distance from the point of activation (m)	the street street	N/A
TEK STEK	Space between end point and nearest fixed mechanical part (mm):	To the left	N/A
8.5.4.2.4	Endurance requirements	it with our our o	N/A
WALTER	Mechanical system subjected to 100 000 cycles of operation	A CHIEF MILES WALTER WAL	N/A
TEX S	- Mechanical function check and visual inspection	s it it it	N/A
m. m	- Cable assembly	Write Write Mrs. Whi	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	SLIER WILLER WALTER	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:	THE WALL WALL WALL WILL	N/A
8.5.4.3.3	Disconnection from the supply	L At At A	N/A
8.5.4.3.4	Cut type and test force (N)	Multi Mili Mili Mili	N/A
8.5.4.3.5	Compliance	et tet jet jet	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
IE NALTE	Explosion test	TEX JEX LIER OLITER	N/A
8.5.5.3	Glass particles dimensions (mm)	Mr. In In a	N/A
8.6	Stability of equipment	Et lifet wifet with an	N/A
8.6.1	General	MS1: Mass of the unit	N/A
WELL WI	Instructional safeguard:	LIEF STEP WITE WITE	N/A



Reference No.: WTF24D03067594R1Y Page 18 of 67

01	IEC 62368-1	D 11 D 1	N/ I'. 1
Clause	Requirement – Test	Result – Remark	Verdict
8.6.2	Static stability	With the state of	N/A
8.6.2.2	Static stability test:	OLITER WALTER WALTER WAS	N/A
8.6.2.3	Downward force test	L A ST SE	N/A
8.6.3	Relocation stability	WILL MULL MULL MULL	N/A
EK JE	Wheels diameter (mm):	at let tet ster	_
70	Tilt test	in mi mi m	N/A
8.6.4	Glass slide test	t ret ret tree	N/A
8.6.5	Horizontal force test	Mr. Mr. M. M.	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	TER STER WITE WITE	N/A
.t _ct	Test 1, additional downwards force (N):	70 70	N/A
MULL	Test 2, number of attachment points and test force (N)	EX WHITE WHITE WHITE	N/A
White a	Test 3 Nominal diameter (mm) and applied torque (Nm)	whitek whitek whitek wh	N/A
8.8	Handles strength	at the state of	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	THE THE CITE STEEL	N/A
, J.	Number of handles	is my my mi	
MITE	Force applied (N)	* ITEX SLIEN WITER S	Nice Wall
8.9	Wheels or casters attachment requirements	Mr. In In	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	all an an	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	Et JEK STEK MITER	N/A
8.10.3	Cart, stand or carrier loading test	24 24 24.	N/A
MALTY	Loading force applied (N):	- LIET WIFE WILL A	N/A
8.10.4	Cart, stand or carrier impact test	211, 21, 20	N/A
8.10.5	Mechanical stability	MITER WITER WALTE WALT	N/A
AE* . 15	Force applied (N)	and the set of	
8.10.6	Thermoplastic temperature stability	LIET MILL WALL WALL	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	at at at	N/A



Reference No.: WTF24D03067594R1Y Page 19 of 67

	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
alle.	All the total th	the with the way	1/1/2
	Instructional Safeguard:	10, 10,	N/A
8.11.3	Mechanical strength test	CLIER WITE WALL WALL	N/A
8.11.3.1	Downward force test, force (N) applied:	The state of	N/A
8.11.3.2	Lateral push force test	alter white wall wall	N/A
8.11.3.3	Integrity of slide rail end stops	a state at	N/A
8.11.4	Compliance	the write many men a	N/A
8.12	Telescoping or rod antennas	at the fifth of	N/A
10, 1	Button/ball diameter (mm)	No such parts	_
A. C. C.	THE STEE WITH SIND WALL AND THE	a at at at	F 16"
9	THERMAL BURN INJURY		200 P 201
0.2	Thormal anaray source classifications	W	Z D

9	THERMAL BURN INJURY		7/1 P 1/1
9.2	Thermal energy source classifications	and the state of the	GE P S
9.3	Touch temperature limits	TER WITE MUTE AND AND A	Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	TEX PITE
9.3.2	Test method and compliance	See B.1.6 & B.2.3	+ Rot
9.4	Safeguards against thermal energy source	SITE WILL WALL WALL WALL	An P
9.5	Requirements for safeguards	A A A	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.	W P W
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitt	ters to the life wife	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	TEX LIFE NITE WITE MILITE	N/A
9.6.3	Test method and compliance	:5	N/A

10	RADIATION		Р
10.2	Radiation energy source classification	H TEX LITER NUTER WILL	ηP.
10.2.1	General classification	See below	Р
الل سيريما	Lasers:	LITER OLITER MALTER MALTER	_
TIEK WAL	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	_
y JUEN	Image projectors	at all all all a	
-10,	X-Ray:	The Mer Me M	
CLIE	Personal music player	Let Jet Jet Sile	_



Reference No.: WTF24D03067594R1Y Page 20 of 67

The March	My Me Me	IEC 62368-1	lifet writer whiles	Write Marie Mari
Clause	Requirement – Test	Will Miles My Co.	Result – Remark	Verdict

10.3	Safeguards against laser radiation	20, 1,	N/A
an _{ri} an	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps (including LED types)	and lamp systems	mu P
10.4.1		LED: Classed as RS1 (Exempt Group)	TER P
WALTER	Instructional safeguard provided for accessible radiation level needs to exceed	t street wirest writest while	N/A
1	Risk group marking and location:	41. 12.	N/A
ner in	Information for safe operation and installation	SLIEB MITE MALTE WALL	N/A
10.4.2	Requirements for enclosures	in a state	N/A
" Wer	UV radiation exposure	LIET WILL WALL WALL OF	N/A
10.4.3	Instructional safeguard	and the state of	N/A
10.5	Safeguards against X-radiation	White White White Mr.	N/A
10.5.1	Requirements	No X-radiation	N/A
an a	Instructional safeguard for skilled persons:	Write mil mil mil my	_
10.5.3	Maximum radiation (pA/kg)	at the state	_
10.6	Safeguards against acoustic energy sources	The sure of	N/A
10.6.1	General	THE LIES	N/A
10.6.2	Classification	me me me	N/A
MILE	Acoustic output L _{Aeq,T} , dB(A)	t TEX STEX SLIEN MI	N/A
عاد ا	Unweighted RMS output voltage (mV)	The My My My	N/A
Write an	Digital output signal (dBFS)	TEX STEX OUTE WALTE	N/A
10.6.3	Requirements for dose-based systems	Mr. Mr. Mr.	N/A
10.6.3.1	General requirements	LIER OLIER WILLER WILLER	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	EX WITE WHITE MULT ME	N/A
TEK	30 s integrated exposure level (MEL30)	a at at a	N/A
21/2 2	Warning for MEL ≥ 100 dB(A)	WILL MALL MALL MALL	N/A
10.6.4	Measurement methods	A SH SET SET	N/A
10.6.5	Protection of persons	WILL MULL WALL WALL	N/A
TEX STE	Instructional safeguards	at let let stet	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	it with the second	N/A
10.6.6.1	Corded listening devices with analogue input	inite antibunit water was	N/A
TEX.	Listening device input voltage (mV)	at the set set	N/A
10.6.6.2	Corded listening devices with digital input	NITE WILL WALL WALL	N/A



Reference No.: WTF24D03067594R1Y Page 21 of 67

IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
71/2 11/2	Max. acoustic output L _{Aeq,T} , dB(A)	the many war.	N/A	
10.6.6.3	Cordless listening devices	ALTER MALTE WALTER WI	N/A	
jet .	Max. acoustic output L _{Aeq,T} , dB(A)	20 1	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		TEK P
B.1	General Andrews and the second		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	Mr. Mr. Mr. Mr.	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	, uni ^P
LIEK WAL	Audio Amplifiers and equipment with audio amplifiers	STEEL MUTER MALTER MALTER	INCTE P
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P.
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	at at 1th 5	P
B.3.1	General	(See appended table B.3)	P. P.
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
1. 2.	Instructional safeguard	- 2 Mr. m	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)	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	N/P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	NLTE,P
B.4	Simulated single fault conditions	into Auto Auto Auto	Р
B.4.1	General	Et TEX TEX STEEL OF	CIE PA
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	et P White
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	N/A
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P.
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A



Reference No.: WTF24D03067594R1Y Page 22 of 67

	IEC 62368-1	2, 24, 24, 24,	S
Clause	Requirement – Test	Result – Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in	(See appended table B.4)	Р
	tubes and semiconductors	(Coo appointed table 21.1)	er wite
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	on P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	et set set s	N/A
C.2	UV light conditioning test		
C.2.1	Test apparatus	At The Life Stiff	N/A
C.2.2	Mounting of test samples	1 64 14	N/A
C.2.3	Carbon-arc light-exposure test	TE TE STITE OUTE	N/A
C.2.4	Xenon-arc light-exposure test	N. 14 24	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	711 711 7	N/A
D.2	Antenna interface test generator	LIER WILL MILL MILL	N/A
D.3	Electronic pulse generator	20 20 A	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	M. P.
E.1	Electrical energy source classification for audio	o signals	P.
ar.	Maximum non-clipped output power (W):	See appended table	
CIER	Rated load impedance (Ω):	See appended table	<u> </u>
10,0	Open-circuit output voltage (V)	See appended table	
CLIEN SO	Instructional safeguard	See appended table	
E.2	Audio amplifier normal operating conditions	Mur Mur Mur Mil	Р
ITE WALT	Audio signal source type:	See appended table	_
ال ا	Audio output power (W)	See appended table	
WILL	Audio output voltage (V)	See appended table	S _
d	Rated load impedance (Ω)	See appended table	e –
dres is	Requirements for temperature measurement	THE SITE WITE MAI	N/A



Reference No.: WTF24D03067594R1Y Page 23 of 67

Clause	Requirement – Test	Result – Remark	Verdict
W. T.	The same of the sa	EL STEP WILL MILES	7/1
E.3	Audio amplifier abnormal operating conditions	111 111	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General	TEX LIEX NUTER MUTE	anti P
st st	Language:	English	_
F.2	Letter symbols and graphical symbols	TEX SLIEN WILL MILE W	P/S
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	EK PIE
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.	WILLEY OF
F.3	Equipment markings	vice aut aut au	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	, LITP
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	Mil Bur
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:	y, 2,	N/A
F.3.3.4	Rated voltage:	ALTER MALTER MALTE WALL	N/A
F.3.3.5	Rated frequency:		N/A
F.3.3.6	Rated current or rated power:	NITER INLIES WHILE WHILE	N/A
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	at at all o	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	must mer me me	N/A
F.3.5.2	Switch position identification marking	WILL WILL WALL MALL	N/A
F.3.5.3	Replacement fuse identification and rating markings	TER STEEL STEEL SHIFEE	N/A
4 04	Instructional safeguards for neutral fuse:	'n 'n ''	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	life slife with whi	N/A

IEC 62368-1



Reference No.: WTF24D03067594R1Y Page 24 of 67

01	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	me me m	N/A
F.3.6.1.1	Protective earthing conductor terminal	TEX STEX NUTER MUTE	N/A
F.3.6.1.2	Protective bonding conductor terminals	W. M. M. M.	N/A
F.3.6.2	Equipment class marking:	TEX STEEL WILL NOTE IN	N/A
F.3.6.3	Functional earthing terminal marking	24 24	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	71 <u>17</u>
F.3.8	External power supply output marking:	THE STEE STEE WITE	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10 FEE WALTER	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	THE P
F.4	Instructions	E MULL MULL MULL MULL	P
- STEK O	a) Information prior to installation and initial use	See user manual	Р
an an	b) Equipment for use in locations where children not likely to be present	men and the my	N/A
in the	c) Instructions for installation and interconnection	HILL WHILL MAIN MULT.	N/A
ek waliek	d) Equipment intended for use only in restricted access area	Et STER BUTER METER	N/A
- Jet	e) Equipment intended to be fastened in place	10 2 x	N/A
21/2/2	f) Instructions for audio equipment terminals	" " TIER " WILL " MULL " MULL	√/P
All .	g) Protective earthing used as a safeguard	and the second	N/A
ire. Au	h) Protective conductor current exceeding ES2 limits	MULTER MULTER MULT MILE	N/A
MALI	i) Graphic symbols used on equipment	TEX NIET MITE WAITE	N/A
ik mijek	j) Permanently connected equipment not provided with all-pole mains switch	at the state state of	N/A
all the second	k) Replaceable components or modules providing safeguard function	The ship the	N/A



Reference No.: WTF24D03067594R1Y Page 25 of 67

Clause	Requirement – Test	Result – Remark	Verdict
alle	The the the the	Et alle mile and	ne me
et e	Equipment containing insulating liquid	711 72	N/A
الم المالي	m) Installation instructions for outdoor equipment	ALTER MALTE MALTE WA	N/A
F.5	Instructional safeguards	n v t	N/A
G	COMPONENTS		M. B.
G.1	Switches	a state of	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	L IX III III	N/A
G.1.3	Test method and compliance	MULL MAL MAL M	N/A
G.2	Relays	et et set s	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	et tet tet ute	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	the state of	N/A
G.2.4	Test method and compliance	MULL MULL MULL	N/A
G.3	Protective devices	L at at At	N/A
G.3.1	Thermal cut-offs	No such component	N/A
NITEK WAT	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	THE WAITER WALL	N/A
IEX WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The Life Stiff Miles	N/A
G.3.1.2	Test method and compliance	701 701 71	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	THE STEE STEEL ON	N/A
	b) Thermal links tested as part of the equipment	my my my	N/A
G.3.2.2	Test method and compliance	TEK TEK NITES MITE	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	No such component	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	- Tet Stet Stet	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	at let the	N/A
G.3.5.2	Single faults conditions	MULL MULL MULL MULL	N/A
G.4	Connectors	at all all sell	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	Et TEX TEX TEX	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	me me me	N/A



Reference No.: WTF24D03067594R1Y Page 26 of 67

		IEC 62368-	1 nite mit whit wh	
Clause	Requirement – Test	Mur. M.	Result – Remark	Verdict
G.5	Wound components	NITE WATER	the main water was	N/A

Clause	Requirement – rest	Result – Remark	verdict
The .		TER STEE WILL WALL WI	in The
G.5	Wound components	7, 2	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	The state of	N/A
G.5.2	Endurance test	ALTER ANTIE WALL WALL	N/A
G.5.2.1	General test requirements	a state of the	N/A
G.5.2.2	Heat run test	The Will Mail Mur. A	N/A
TEX	Test time (days per cycle)	L at let let	<u> </u>
211. 2	Test temperature (°C)	MULL MAL MAL MA	_
G.5.2.3	Wound components supplied from the mains	LEK TEK TEK STE	N/A
G.5.2.4	No insulation breakdown	Mer Mer Me M	N/A
G.5.3	Transformers	THE THE THE STEE	N/A
G.5.3.1	Compliance method.	or my my my	N/A
JALIE.	Position	Et TER STEE STEEL	N/A
, st.	Method of protection	Mr. Mr. Mr.	N/A
G.5.3.2	Insulation	LIET SLIET WITE NOW	N/A
	Protection from displacement of windings:	11 24 2	_
G.5.3.3	Transformer overload tests	LET MILITE WALLE	N/A
G.5.3.3.1	Test conditions	L it	N/A
G.5.3.3.2	Winding temperatures	LIE MITE WILL WILL .	N/A
G.5.3.3.3	Winding temperatures - alternative test method	and the state of	N/A
G.5.3.4	Transformers using FIW	en alvite white white we	N/A
G.5.3.4.1	General	at at at a	N/A
the the	FIW wire nominal diameter:	MILLE MILL MILL MILL MILL	
G.5.3.4.2	Transformers with basic insulation only	at at let let	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	INCH THE THE	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	The Marie Marie Marie A	N/A
G.5.3.4.5	Thermal cycling test and compliance	THE MITE WALLE WA	N/A
G.5.3.4.6	Partial discharge test	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.5.3.4.7	Routine test	CHIEF WILL MALL MALL	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	LIET WALTE WALT WALT	N/A
G.5.4.2	Motor overload test conditions	a at at at	N/A
G.5.4.3	Running overload test	te autic autic autic al	N/A
G.5.4.4.2	Locked-rotor overload test	a de de	N/A



Reference No.: WTF24D03067594R1Y Page 27 of 67

Clause	Requirement – Test	Result – Remark	Verdict
white.		EL STEE WITER WITE	anil and
	Test duration (days):	711 24	_
G.5.4.5	Running overload test for DC motors	CHER WITE WHILE	N/A
G.5.4.5.2	Tested in the unit	The state of	N/A
G.5.4.5.3	Alternative method	WILL MILL MULL MI	N/A
G.5.4.6	Locked-rotor overload test for DC motors	s A A A	N/A
G.5.4.6.2	Tested in the unit	TE WALL WALL WALL	N/A
- JEK	Maximum Temperature	L A A A	N/A
G.5.4.6.3	Alternative method	MALL MALL MALL	N/A
G.5.4.7	Motors with capacitors	at at set	N/A
G.5.4.8	Three-phase motors	With My My M	N/A
G.5.4.9	Series motors	ALT THE STATE OF	N/A
1 1	Operating voltage	Tr. Mr. Mr. M.	
G.6	Wire Insulation	cet tet tet stet ste	N/A
G.6.1	General	Mr. Mr. M.	N/A
G.6.2	Enamelled winding wire insulation	TEN LIER MITE	N/A
G.7	Mains supply cords	1/1 2/1 20	N/A
G.7.1	General requirements	No such component	N/A
at at	Type		<i>*</i> –
G.7.2	Cross sectional area (mm² or AWG)	THE RUTE WALL WALL	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	the state with	N/A
G.7.3.2	Cord strain relief	141 An	N/A
G.7.3.2.1	Requirements	LIEF RUIL WILL	N/A
st st	Strain relief test force (N)	71, 71, 2	N/A
G.7.3.2.2	Strain relief mechanism failure	LIER WILL MULL MA	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material	TEN WITE WALL WALL	N/A
G.7.4	Cord Entry	and the state of	N/A
G.7.5	Non-detachable cord bend protection	WALL WALL WALL	N/A
G.7.5.1	Requirements	at at at	N/A
G.7.5.2	Test method and compliance	Write Mury Mury M	N/A
TEK WALTE	Overall diameter or minor overall dimension, <i>D</i> (mm)	IEK MIEK WHIEK WHI	1 -
the Text	Radius of curvature after test (mm)	1 1 1 11	_
G.7.6	Supply wiring space	and while while	N/A
G.7.6.1	General requirements	1 1 1	N/A



Reference No.: WTF24D03067594R1Y Page 28 of 67

IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6.2	Stranded wire	there were the me	N/A	
G.7.6.2.1	Requirements	TEK LIEK ALTEK MLT	N/A	
G.7.6.2.2	Test with 8 mm strand	The Aur an an	N/A	
G.8	Varistors	ITET SITES ONLY	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	TEX OLIEN WILLIAM STEEL	N/A	
G.8.2.1	General	and the second	N/A	
G.8.2.2	Varistor overload test	A WILL MULL MULL MU	N/A	
G.8.2.3	Temporary overvoltage test	a at at all	N/A	
G.9	Integrated circuit (IC) current limiters	Write Mr. Mr. Mr.	N/A	
G.9.1	Requirements	No such component	N/A	
20,0	IC limiter output current (max. 5A)	the many many many		
the CLIEB	Manufacturers' defined drift	et est test tiet.	_	
G.9.2	Test Program	Mr. Mr. Mr. M	N/A	
G.9.3	Compliance	TELL STEEL STEEL OUT	N/A	
G.10	Resistors	The August Augus	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning		N/A	
G.10.3	Resistor test	TEN OLIVE MOLIVE WALLE	N/A	
G.10.4	Voltage surge test	the state of	o N/A	
G.10.5	Impulse test	THE WALL WALL WALL	N/A	
G.10.6	Overload test	x 2+ 2+ 1	N/A	
G.11	Capacitors and RC units	WHITE WALL WALL WALL	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	recommendation of the same	N/A	
G.11.3	Rules for selecting capacitors	of set tet tet	N/A	
G.12	Optocouplers	in mer me m	N/A	
WILLER W	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
CIEN SI	Type test voltage V _{ini,a} :	at at at all		
11. 20,	Routine test voltage, V _{ini, b}	MULL MULL MULL MULL	_	
G.13	Printed boards	et tet tet tet	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	
G.13.2	Uncoated printed boards	20 TO TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO	N/A	
G.13.3	Coated printed boards	THE LIFE WITE WITE	N/A	



Reference No.: WTF24D03067594R1Y Page 29 of 67

- 20,	IEC 62368-1	are the the	70. 7.
Clause	Requirement – Test	Result – Remark	Verdict
G.13.4	Insulation between conductors on the same inner	the wife were	N/A
G. 13.4	surface	b let the the	IN/A
G.13.5	Insulation between conductors on different surfaces	The the text	N/A
20	Distance through insulation:	Write Mrs. Mrs. M.	N/A
IEW OUTER	Number of insulation layers (pcs)	at all the	<i>*</i> _
G.13.6	Tests on coated printed boards	is me me m	N/A
G.13.6.1	Sample preparation and preliminary inspection	et tet itet liter	N/A
G.13.6.2	Test method and compliance	me me m	N/A
G.14	Coating on components terminals	TEX LIER SLIER	N/A
G.14.1	Requirements:	The Mr. M.	N/A
G.15	Pressurized liquid filled components	TER SITER OUTER UNI	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	JEY NITER WITE WITE	N/A
G.15.2.1	Hydrostatic pressure test	70, 77, 74	N/A
G.15.2.2	Creep resistance test	A CHIEF WITE WITE	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	Marie M	N/A
G.15.2.5	Thermal cycling test	\$ A	o N/A
G.15.2.6	Force test	pure with which which	N/A
G.15.3	Compliance	L of the tell	N/A
G.16	IC including capacitor discharge function (ICX)	MULL MULL MU	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
10, 0,	ICX with associated circuitry tested in equipment	mer mer mer	N/A
LTER JOLI	ICX tested separately	TER TER STER O	N/A
G.16.2	Tests	ing my my min	N/A
MULLE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	LEK WHITEK WHITEK WHITE	n –
WALTER V	Mains voltage that impulses to be superimposed on	the milet market	whit -
N ^{LTEK} WN	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	wifet wifet with	NITER —
G.16.3	Capacitor discharge test	1, 2,	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	<u> </u>	N/A
H.2	Method A	TER WITE WALTE WALTE	N/A
H.3	Method B	7	N/A



Reference No.: WTF24D03067594R1Y Page 30 of 67

- 20,	IEC 62368-1	KILL THE THE THE	24 45
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the test the	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STEEL	
H.3.1.4	Single fault current (mA):	y Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t tex stex stex stex st	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the test states of the	N/A
H.3.2.2	Tripping device	mer mer an	N/A
H.3.2.3	Monitoring voltage (V):	tel tel tel stell stille	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	OUT INTERLEAVED	N/A
J.1	General	it with mur mur of	N/A
CLIFER OF	Winding wire insulation:	the test tills at	· —
'th	Solid round winding wire, diameter (mm):	The Me Me Me	N/A
NLTER WILL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	The State	LIFET TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
TEK .	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	at at telt the	N/A
K.4	Interlock safeguard override	NUTTE WALL WALL WAY	N/A
K.5	Fail-safe	at let let liet	N/A
K.5.1	Under single fault condition	Mr. Mr. M. 2	N/A
K.6	Mechanically operated safety interlocks	A THE THE THE W	N/A
K.6.1	Endurance requirement	The Mr. M. A.	N/A
K.6.2	Test method and compliance	TER LIER MITTER MITTE	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET MILIER MILIER MILIER.	N/A
WILLEY	In circuit connected to mains, separation distance for contact gaps (mm):	the secretary and the second	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	stiek street states white	N/A



Reference No.: WTF24D03067594R1Y Page 31 of 67

IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
The same	The the state of the state of	E. Will Mary and Mar	211	
ANLIEK SI	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):	Mrs. Mrs. Mr. Mr.	N/A	
K.7.3	Endurance test	TEX TEX NITER OUTER	N/A	
K.7.4	Electric strength test	the say in the	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	711 111	N/A	
L.2	Permanently connected equipment	t still with write will	N/A	
L.3	Parts that remain energized	AN AN AN AN	N/A	
L.4	Single-phase equipment	SLIEF WILL WALL WALL	N/A	
L.5-	Three-phase equipment	and the second	N/A	
L.6	Switches as disconnect devices	LIFE WILL WILL WILL	N/A	
L.7	Plugs as disconnect devices	e state	N/A	
L.8	Multiple power sources	the survey of the same	N/A	
CIEN.	Instructional safeguard	at at all it	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р	
M.1	General requirements		J P	
M.2	Safety of batteries and their cells	2 241- 241	Р	
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	ALTE PA	
M.3	Protection circuits for batteries provided within the equipment	* TITEL MILES WAITER WAY	EK P.	
M.3.1	Requirements	10 x 2+ 2	P	
M.3.2	Test method	CLIEF WITE WALL WALL	₩. P	
LIFEY MAL	Overcharging of a rechargeable battery	(See appended table Annex M)	UNLITE'P	
EK MLTEK	Excessive discharging	(See appended table Annex M)	TEK P	
CLER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
All A	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A	
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	WITE W	
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		Р	
M.4.1	General	at the set of	Р	



Reference No.: WTF24D03067594R1Y Page 32 of 67

	IEC 62368-1	Str. Chr. Chr. Chr. A	
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	PEK WILLEK WILLEK
M.4.2.1	Requirements	t at all all a	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	PS1 circuit	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	unit with all the	Р
M.4.4.2	Preparation and procedure for the drop test	lite mail and and	P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	TEK PU
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	y PE
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	unit P
M.4.4.6	Compliance	the fifth	JO P
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	EK P.T
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		AL P
M.6.1	External and internal faults		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.	od Po Test odni St. Tes
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
* 4	Calculated hydrogen generation rate:	m m	N/A
M.7.2	Test method and compliance	TEX STEE WITE WALTER	N/A
t et	Minimum air flow rate, Q (m³/h)	74 74	N/A
M.7.3	Ventilation tests	ex refer while while wh	N/A
M.7.3.1	General	1 1 1 1 10 10	N/A
M.7.3.2	Ventilation test – alternative 1	ALTER CALLE MALE MALE	N/A



Reference No.: WTF24D03067594R1Y Page 33 of 67

01	IEC 62368-1	Danish Danish	\/\f-\\-\\\\
Clause	Requirement – Test	Result – Remark	Verdict
	Hydrogen gas concentration (%)	me me me	N/A
M.7.3.3	Ventilation test – alternative 2	alier mile antic anti	N/A
et .	Obtained hydrogen generation rate	The state of	N/A
M.7.3.4	Ventilation test – alternative 3	RITER WILL WALL WALL	N/A
EH SE	Hydrogen gas concentration (%)	a start	N/A
M.7.4	Marking:	ie writ whit will w	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	The state of the s	N/A
M.8.2	Test method	OLITER MILLER MILLER WALL	N/A
M.8.2.1	General	the set of the	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	ILTER WALL WALL WALL	311, 7
M.8.2.3	Correction factors:	+ at at at	Jet - 0
M.8.2.4	Calculation of distance d (mm):	MULL MALL MALL M	40
М.9	Preventing electrolyte spillage	- Jet Jet Jet Jet N	N/A
M.9.1	Protection from electrolyte spillage	Mur Au Au	N/A
M.9.2	Tray for preventing electrolyte spillage	at The street	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	To the little	N/A
10	Instructional safeguard	the west was and	N/A
N STEEL	ELECTROCHEMICAL POTENTIALS	of get get great a	N/A
10,	Material(s) used	Mer Aur My M.	\
0.5	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
2. T	Value of X (mm):	Mur Mr. Mr. M.	
P WILL	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		P
P.1	General	See below	J. P
P.2	Safeguards against entry or consequences of e	entry of a foreign object	P
P.2.1	General	20 To 1	P
P.2.2	Safeguards against entry of a foreign object	MITER MITE MALIE WAL	WP.
LEX.	Location and Dimensions (mm)	No opening.	124
P.2.3	Safeguards against the consequences of entry of a foreign object	MULL MULL MULL MULL	N/A
P.2.3.1	Safeguard requirements	THE STIFF WITH SUNTY	N/A
y whiteh	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	et tet tet stet stet	N/A
	Transportable equipment with metalized plastic parts	un un su	N/A



Reference No.: WTF24D03067594R1Y Page 34 of 67

Clause	Requirement – Test	Result – Remark	Verdict
Olause	Trequirement Test	reduit remain	Verdice
P.2.3.2	Consequence of entry test	71/2 - 1/2 - 1/4 -	N/A
P.3	Safeguards against spillage of internal liquids	CLIFE WITE WILL WHILE	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	ALTER WALTER WALL WALL	N/A
P.3.3	Spillage safeguards	at the little	N/A
P.3.4	Compliance	The Walte Mary Mary A	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	at let let let	N/A
72.	Conditioning, T _C (°C):	mer me me m	
LITER OF LIT	Duration (weeks)	TEX TEX STEX BUTER	NITE N
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	EX JEX NIEX NITER NI	N/A
Q.1.1	Requirements	m n r	N/A
White a	a) Inherently limited output	LITER WITER WITE WILL	N/A
<i>3</i> +	b) Impedance limited output	All the state of t	N/A
ver and	c) Regulating network limited output	- CEX MILLE MALLE	N/A
at a	d) Overcurrent protective device limited output	= 1 1 to 1 to 1 to 1	N/A
, were	e) IC current limiter complying with G.9	LIE MITE WALL WALL V	N/A
Q.1.2	Test method and compliance	and the second	N/A
nu.	Current rating of overcurrent protective device (A)	Marie Miri Mir My	N/A
Q.2	Test for external circuits – paired conductor cable	WHITEK WHITE WHITE WHITE	N/A
The Mr.	Maximum output current (A):	TEX SEX STEX WITH	N/A
	Current limiting method:	Le me me me	<i>*</i> -
R	LIMITED SHORT CIRCUIT TEST	TEX STEEL WILL WILL WA	N/A
R.1	General Andrews Andrew	No such consideration.	N/A
R.2	Test setup	TIER WITH WHILE WAS	N/A
, lit	Overcurrent protective device for test:	70 V V	- 4
R.3	Test method	INLIE WALL WALL WALL	N/A
TEX ST	Cord/cable used for test	t it et eet	SEX-
R.4	Compliance	LIE MILL MILL MILL	N/A
S Jet	TESTS FOR RESISTANCE TO HEAT AND FIRE	a at at at	N/A
S.1	Flammability test for fire enclosures and fire bawhere the steady state power does not exceed		N/A
Wer. 4	Samples, material:	alter mile anticionali	Mer



Reference No.: WTF24D03067594R1Y Page 35 of 67

Clause	IEC 62368-1	Decult Demonts	Mandiat
Clause	Requirement – Test	Result – Remark	Verdict
	Wall thickness (mm):	11/2 11/2 1/	+ +
War. W	Conditioning (°C)	ALTER WALTER WALTER	Mill Mil
NITEK WA	Test flame according to IEC 60695-11-5 with conditions as set out	TEX LIEX NUTEX	N/A
A 16	- Material not consumed completely	11. 14. 12.	N/A
MULL	- Material extinguishes within 30s	TEK SLIER WITE WA	N/A
- 11	- No burning of layer or wrapping tissue	100 V	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		
TEX.	Samples, material:	t it it	16th 17th
115 11	Wall thickness (mm)	WILL WALL WALL	mr m_
CIEN CI	Conditioning (°C)	it it it	TEK JEK
S.3	Flammability test for the bottom of a fire enclose	sure un un un	N/A
S.3.1	Mounting of samples	at alt alt o	N/A
S.3.2	Test method and compliance	AND AND AND	N/A
INLIE .	Mounting of samples	TEX SEX SITE	- RITER MILLE
	Wall thickness (mm)	Wer Aug Au	
S.4	Flammability classification of materials	AL STEE	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	It's antity while wh	N/A
	Samples, material:	e state	et jet al
n.	Wall thickness (mm)	MULL MULL MULL	1/1 1/1
ALTER O	Conditioning (°C)	LEK TEK TEK	CIE NITE
T 2	MECHANICAL STRENGTH TESTS	Muri Mur Mur	N/A
T.1	General White Control of the Control		N/A
T.2	Steady force test, 10 N:	ing my my m	N/A
T.3	Steady force test, 30 N:	Et SEX STER ME	N/A
T.4	Steady force test, 100 N:	W. W. A.	N/A
T.5	Steady force test, 250 N	- TEX STEE OF TE	N/A
T.6	Enclosure impact test	711 711 1	N/A
West an	Fall test	OLIER MALIER MALIE	N/A
At A	Swing test	in the state of	N/A
T.7	Drop test:	LIE WALTER WALLE WA	N/A
T.8	Stress relief test:	at at at a	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	at at all	N/A



Reference No.: WTF24D03067594R1Y Page 36 of 67

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

	Troduitorite 1001		Toraiot
Ale .	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	110 odori gidoo	N/A
STEEK S	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U _L	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1 General		TOSION TO THE TOTAL	N/A
MALTER	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	70.	N/A
U.3	Protective screen	The same and the same	N/A
ر اک	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment	WILL MULT MALL WALL	N/A
V.1.1	General	a state of	N/A
V.1.2	Surfaces and openings tested with jointed test probes	mil with with all	N/A
V.1.3	Openings tested with straight unjointed test probes	WILL MULL AND MILL	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	A SA SA	N/A
V.1.5	Slot openings tested with wedge probe	The sure sure	N/A
V.1.6	Terminals tested with rigid test wire	THE LIEF	N/A
V.2	Accessible part criterion	Committee and the	N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
West of	Clearance:	ALTER MITTER WALTER WALT	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	a at at at	N/A
Y.3	Resistance to corrosion	I WILL MULL AUT A	N/A
Y.3	Resistance to corrosion	t at at at	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	ANTE ME ME THE	N/A
Y.3.2	Test apparatus	WILE MULE MULL MULL	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	a state of	N/A
Y.3.4	Test procedure	The write mer mer.	N/A
Y.3.5	Compliance	at the test	N/A
Y.4	Gaskets	Mure Aug Aug An	N/A
Y.4.1	General	at at at a	N/A



Reference No.: WTF24D03067594R1Y

	IEC 62368-1	nlife antic walk was	
Clause	Requirement – Test	Result – Remark	Verdict
Me	The transfer of the transfer of	TER STEE WITE WILL	The All
Y.4.2	Gasket tests	70, 7, 7	N/A
Y.4.3	Tensile strength and elongation tests	A STER WITE WITE	N/A
alt.	Alternative test methods:	24, 7	N/A
Y.4.4	Compression test	RITER WITE WALL W	N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means	THE WILL MALL AND	N/A
Y.5	Protection of equipment within an outdoor encl	osure	N/A
Y.5.1	General	White Mrs. Mrs.	N/A
Y.5.2	Protection from moisture	at at the	N/A
11. 12.	Relevant tests of IEC 60529 or Y.5.3::	Weir Mr. Mr.	N/A
Y.5.3	Water spray test	et let let	√° √N/A
Y.5.4	Protection from plants and vermin	her me me in	N/A
Y.5.5	Protection from excessive dust	et let let li	N/A
Y.5.5.1	General	The The The	N/A
Y.5.5.2	IP5X equipment	A LIEN LIEN SLIEN	N/A
Y.5.5.3	IP6X equipment	who who were	N/A
Y.6	Mechanical strength of enclosures	ALL MITTER	N/A
Y.6.1	General		N/A
Y.6.2	Impact test:	TE LIE WITH MY	N/A

Page 37 of 67



Reference No.: WTF24D03067594R1Y Page 38 of 67

in all	M. M. M.	IEC 62368-1	ITER MITER WALTER	Mur. au	11/2
Clause	Requirement – Test	in any any	Result – Remark	LEX X	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU_GD_IEC62368_1E

Attachment Originator....: UL(Demko)

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

Copyright © 2021 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.

عاد ا	CENELEC COMMON MODIFICATIONS (EN)	The my my	Р
WINLIE V	Clause numbers in the cells that are shaded light grade 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".	bers in that column, except for 1:2018.	nP nntie
EK WALTE	Add the following annexes: Annex ZA (normative)Normative references to intern corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	THE WRITE WALL WHILE WILE	P WALL
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. 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 WAI WAITE
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. $E = \int_{0}^{T} p(t)^{2} dt$	IET WHITEK WHITEK WHITEK WHITEK	N/A



Reference No.: WTF24D03067594R1Y Page 39 of 67

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

aller.	Mr. M. T. THE THE	the return the war	The.
3.3.19.4	sound exposure level, SEL	70 70	N/A
	logarithmic measure of sound exposure relative to a reference value, E_0 , typically the 1 kHz threshold of hearing in humans.	multer multer multer multer	MULLY.
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	LITER WALTER WALTE WALL W	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	et united white unite was	- WILE
Whitek W	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	white whe with and	NITEK N
3.3.19.5	digital signal level relative to full scale, dBFS	WE ALL THE THE	N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	TEK WAITER WAITER WAITER WA	itek uni ek vinitek
Whitek W	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	MULTER WHITER WHITER WHITER	WILLER V
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	the little	N/A
	Replace 10.6 of IEC 62368-1 with the following:		21/5
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	White	WALTER WALTE
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and 	WHITEK WHITEK WHITEK	WALTER
	– has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	NITER WHITE WHITE WHITE	TEX MUT
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	t united whited whited white	WALTER



Reference No.: WTF24D03067594R1Y Page 40 of 67

20,	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
an.	NOTE 1 Protection against acoustic energy sources from	The transfer of the	me m
	telecom applications is referenced to ITU-T P.360.	1 1 1	LEY JEY
	NOTE 2 It is the intention of the Committee to allow the	CLIEB WALLE WALLE	mr. mr.
	alternative methods for now, but to only use the dose	24 25	A Lit
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	TEX LIER OLIENS	Liter WALL ON
	possible.	15. 24. 24. 24.	
	Listening devices sold separately shall comply	at alt alt of	Et Ni Et Mil
	with the requirements of 10.6.6.	MULL MULL MILE	20, 20,
	These requirements are valid for music or video	L At At	- 18 JE
	mode only. The requirements do not apply to:	CLIER MILL MALL	The The
	professional equipment;	20, 20, 1	.t .c+
	NOTE OF CO.	TEX LIEX OLIES.	WELL MARINE
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal	me me in 1	
	electronics stores are considered not to be professional	at at at .	TER OFFER
	equipment.	The Mary Mary An	20 20
	- hearing aid equipment and other devices for	1 1 1 1 1	* 5 4 5
	assistive listening;	in nite intit white	The The
	the following type of analogue personal music players:	70, 7,	.t .j+
	long distance radio receiver (for example, a	TEX LIER OLIES	WILL MUTT
	multiband radio receiver or world band radio	Wer The The	, L
	receiver, an AM radio receiver), and	at the state	LIEB LIEB.
	cassette player/recorder;	1 21/2 21	2, 2
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a	4	Et SEX
	few years it will no longer exist. This exemption will not be	it with white whi	in the
	extended to other technologies.	70, 7	L St L
	- a player while connected to an external amplifier	TEN STIES WITE	until whi
	that does not allow the user to walk around while	The Mr. In	
	in use.	LEK TEK TEK	ALTER OLITE
	For equipment that is clearly designed or intended	aver were mur.	$v_{i,r} = v_{i,r}$
	primarily for use by children, the limits of the	a at at	TEX STEX .
	relevant toy standards may apply.	LIE MITE WALL WA	11/2 21/
	The relevant requirements are given in	100	at at a
	EN 71-1:2011, 4.20 and the related tests methods	EX LIEX SLIEN WIT	"WE WE
	and measurement distances apply.	211 211 20	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	MITER MATER WALTER	N/A
	The amount of non-ionizing radiation is regulated	The state of the s	LIK LIK
	by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of	ALTER OLITER ANTICLE	Vr. Inr.
	exposure of the general public to electromagnetic	14. 24. 25. 2	
	fields (0 Hz to 300 GHz).	cet tet tet a	TET IN THE WIN
	For intentional radiators, ICNIRP guidelines should	And Angelland	20.
	be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and	L A At A	t city city
	Electromagnetic Fields (up to 300 GHz). For hand-	antity water water	In In
	held and body mounted devices, attention is	1 4 4	LEK LEK
10-67	drawn to EN 50360 and EN 50566.	THE SET STEE	Carry Mark



Reference No.: WTF24D03067594R1Y Page 41 of 67

Lang.	IEC 62368-1				
Clause	Requirement – Test	Aur. Au. Au.	Result – Remark	Verdict	+

10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
	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. For classifying the acoustic output <i>L</i> _{Aeq} , τ, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> _{Aeq} , τ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> _{Aeq} , τ) 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	Not such equipment	N/A JIP N/A
10.6.2.2 Indicate white	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. 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, ⊤ acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as	UNLIER WHITER WH	N/A



Reference No.: WTF24D03067594R1Y Page 42 of 67

Clause	Requirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	mer were mer	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>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	JOHN TEK WALTER WALT WALTER WA	TEK WILLER
0.6.2.4	simulation noise" as described in EN 50332-1. RS3 limits	and with and	NI/A
0.6.2.4	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Whilek whilek whilek w	N/A
0.6.3	Classification of devices (new)	at a state of	N/A
0.6.3.1	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
0.6.3.2	RS1 limits (new)	20, 20, 20,	N/A
TEK WHITE WHITEK	RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized 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.	Inter white	EX WITEX WIT
10.6.3.3	RS2 limits (new)	MITE WALLE WALLE	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:	at let let	TEN STEN

IEC 62368-1



Reference No.: WTF24D03067594R1Y Page 43 of 67

Clause	Deguiroment Test	Decult Demonit	1/5
Clause	Requirement – Test	Result – Remark	Verdict
MILITER WILLER WINLIER	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 EN50332-1.	MALIER WALLER WA	ALTER WALTER WALTER
10.6.4	Requirements for maximum sound exposure	it, mur aut au	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	Not such equipment	N/A
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.	at the same	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.	it white white white	IV/A
	NOTE 1 Volume control is not considered a safeguard.	MILIER MALTE WALTE	mer. mer.
	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.	united whited united whited	LIFEK WILLER
	The elements of the instructional safeguard shall be as follows:	MATER MATER MATER	INLIEY WINLIE
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent wording	TEK WHITEK WHITEK WHI	TEX WITEX
	 element 4: "Do not listen at high volume levels for long periods." or equivalent wording 	MALIER WALLE WALL	Mr. Mr.
			AV (V)



Reference No.: WTF24D03067594R1Y Page 44 of 67

IEC 62368-1			211, 21,
Clause	Requirement – Test	Result – Remark	Verdict
ah.		the with white out	mr m
	of an ordinary person to an RS2 source without	4	at at
	intentional physical action from the ordinary person and shall automatically return to an output	THE THE LITER OF	Tite William
	level not exceeding what is specified for an RS1	me me me	
	source when the power is switched off.	1 1 1	EX TEX
	Source when the power is switched on.	TER STIES WITH WAL	112 112
	The equipment shall provide a means to actively	in the me	
	inform the user of the increased sound level when	at the title of the	
	the equipment is operated with an output	the mile with while	21/2
	exceeding RS1. Any means used shall be	20, 20	
	acknowledged by the user before activating a	LET THE TEXT	alite and
	mode of operation which allows for an output	With Mur My	20
	exceeding RS1. The acknowledgement does not	1	LIF LEF
	need to be repeated more than once every 20 h of	TER STEE STEE ON	July .
	cumulative listening time.	the Mr. M. M.	
	NOTE 2 Examples of means include visual or audible signals.	at at at a	TEN.
	Action from the user is always needed.	TEN WITE WILL WALL	211,0 211
	NOTE 3 The 20 h listening time is the accumulative listening	20, 2,	4
	time, independent of how often and how long the personal	A LET LET LET	المار المال
	music player has been switched off.	international and	11, 2.
	A skilled person shall not be unintentionally	1	LIK LEK
ال أثناري	exposed to RS3.	LITER OLITER WHILE ON	True Mer.
10.6.5	Requirements for dose-based systems		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	The state of the	11 M
	50332-3, using the limits from this clause.	in with the tile	24 24
		1 1	.e+ .e
	The manufacturer may offer optional settings to allow the users to modify when and how they wish	TER LITER WITE	Will Mer
	to receive the notifications and warnings to	The Mr. In.	
	promote a better user experience without	1 1 1	THE THE
	defeating the safeguards. This allows the users to	LIFER MUTE WALL WI	in the
	be informed in a method that best meets their	m. w	
	physical capabilities and device usage needs. If	at at the of	Lite of
	such optional settings are offered, an administrator	CLIF WILL WALL WALL	11, 20,
	(for example, parental restrictions,		. J
	business/educational administrators, etc.) shall be	elt Text lifet Nith	into inte
	able to lock any optional settings into a specific	in me me m	20.
	configuration.	the state of	TEN TEN
			The same
	The personal music player shall be supplied with	all the street	. 3
	The personal music player shall be supplied with easy to understand explanation to the user of the	Mer. Mer. Mer. 1	1
	easy to understand explanation to the user of the	must mit mit a	TEX DITEX
		while while while wh	IEK WITEK
	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly	Miles Mulies Mulies and	iet milet
	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example	white white white wh	TEX UNITEX
	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car	MUNITER WALTER WALTER WALTER	TEK AUTEK
wint w hitek win fek wintife	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	White white white white	TEX MITEX
10.6.5.2	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. Dose-based warning and requirements	Military Mariet Whitek Whitek	N/A
10.6.5.2	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	Milet whilet while	N/A



Reference No.: WTF24D03067594R1Y Page 45 of 67

21,	IEC 62368-1	LIL WILL WALL WALL	771. 12.
Clause	Requirement – Test	Result – Remark	Verdict
an.	asknowledgement. In case the user deep not	White Mary Mary	The An
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	1 4 4	LET LET
	decrease to compliance with class RS1.	LIER SLIE WITE	Will Mar
	a ex rex recently with mile with	24/2 24 24 24 2	
	The warning shall at least clearly indicate that	at at the	TER LITE
	listening above 100 % CSD leads to the risk of	THE MULL WALL MAY	2, 2,
!	hearing damage or loss.		. الحال ا
0.6.5.3	Exposure-based requirements	EX LIER ALTER MLTE	N/A
	With only dose-based requirements, cause and	24 24 24 24	
	effect could be far separated in time, defying the	at the set	TE SITE
	purpose of educating users about safe listening practice. In addition to dose-based requirements,	THE WALL WALL	21/2
	a PMP shall therefore also put a limit to the short-	3	14 18th
	term sound level a user can listen at.	TEK STEK STEK O	Lite Milit
	I to get get need only	ne me me	
	The exposure-based limiter (EL) shall	at at at a	Ell TELL
	automatically reduce the sound level not to exceed	LIE WILL MALL WAL	211, 21,
	100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	70.	
	The EL settling time (time from starting level	et the the still	THE WALL
	reduction to reaching target output) shall be 10 s	The Me in	70
	or faster.	the state of	TEX TEX
		alter with walk y	We are
	Test of EL functionality is conducted according to		* st
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its	LET STIFF OF	The Party
	listening device), the level integrated over 180 s	- 1 2n 2n	
	shall be 100 dB or lower. For equipment provided	* * * * * * * * * * * * * * * * * * *	the State of
	with a standardized connector, the unweighted	TER WILL MULT MULT	210 211
	level integrated over 180 s shall be no more than	20, 2,	11- 18
	150 mV for an analogue interface and no more	- TEL TEL STEEL	WILL WILL
	than -10 dBFS for a digital interface.	The Mer Me	10
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX TEX TEX	ALTER MALTER
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	5 M. M. M.	
	listening device, and with the volume and sound	at the till	- J 6
	settings in the listening device (for example, built-	SOUTH WALL WALL	21/2
	in volume level control, additional sound features like equalization, etc.) set to the combination of	1	
	positions that maximize the measured acoustic	TER STEE STEE	ALLE SUPER
	output, the input voltage of the listening device	Mus Mr. M.	
	when playing the fixed "programme simulation	at at at	TEN STEE
	noise" as described in EN 50332-1 shall be ≥ 75	WITE WILL WALL MY	471
	mV.		,+ .J+
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	TEX STER WITER WITE	THE THE
0.6.6.0	and 27 mV or 100 dB and 150 mV.	20, 20, 20,	N1/A
0.6.6.2	Corded listening devices with digital input	t THE LITTER STIFE	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN	Mr. Mr. M.	2,
	50332-1, and with the volume and sound settings	at at at	TEN LIEN
	in the listening device (for example, built-in volume		21/2



Reference No.: WTF24D03067594R1Y Page 46 of 67

	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ale .	all the state of	alife with whi whi	The same
unitek w	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	MULTER MULTER WHITER WHITER	WALTEX WA
10.6.6.3	Cordless listening devices	The state of the s	N/A
Whitek wh	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	TEK WHITEK WHITE	JUNITER WALTER
10.6.6.4	Measurement method	Will will my	N/A
NLIEK ANLI	Measurements shall be made in accordance with EN 50332-2 as applicable.	THE STREET	NITEK NI
3	Modification to the whole document		Р



Reference No.: WTF24D03067594R1Y Page 47 of 67

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

5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Note Table 13 5.4.10.2.2 Note 5.4.10.2.3 Note 5.4.10.2.1 Note 5.4.10.2.2 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.8 Note 8.5.4.2.3 Note		· oo, Lo.	to 4.Z1		A V			Р
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5 Table 39 10.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note Y.4.5 Note	A e	OTE Z1 The use lectronic equipm	e of certain substa			nnitek mit	E WHITE WHI	, ITE
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5 10.5.3 Note 2 40.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note	N	odification	to Clause 1					Р
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5 Table 39 10.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note	ان سنام			1 	AT AV		L 'n' d	1100
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5 Table 39	200	Y.4.5	Note					2.F
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2	MILTE	10.6.1	Note 3	F.3,3.6	Note 3	Y.4.1	Note	ALTER
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.8 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.8 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2	71/2			Table 39	53.05T/67Ex			Mer
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.8 Note 5.7.7.1 Note 1 and	* 55	8.5.4.2.3	Note	10.2.1		10.5,3	Note 2	£
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4	المالي المالية					81.	Note 2	I an
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.8 Note 5.6.4.2.1 Note 2 and 3	,t	5.6.8	Note 2	5.7.6	Note	5.7.7.1	AND A SELECTION OF THE PROPERTY OF THE PROPERT	
Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note	MITER	J.U.Z.1	INOTE	3.0.0	INOTE	0.0.4.2.1	The second secon	O LIER
Table 13	701.				X 26 X X			-211
	- NI EV	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	NITE!
5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Note	, 201.	Table 13		2012/2000/03/03/03	4557474375555	300 300000 5000000	000-0000050000	AVE
	EK A	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	6- 4
5.2.2.2 Note 5.4.2.3.2.2 Note c 5.4.2.3.2.4 Note 1 and 3 Table 12	NITER W	5.2.2.2	Note		Note c	5.4.2.3.2.4	Note 1 and 3	15 EN
3.3.8.3 Note 1 4.1.15 Note 4.7.3 Note 1 and 2	271	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	pared of the thick-coat		COSCORNO (E)	DO POSES SERVICES		21
0.2.1 Note 1 and 2 1 Note 4 and 5 3.3.8.1 Note 2	SLIEL							LIEK



Reference No.: WTF24D03067594R1Y Page 48 of 67

IEC 62368-1 LIFE MALE WALL WALL WALL WALL WALL WALL WALL W					, ,
Clause	Requirement – Test	Aur. Au. Au.	Result – Remark	Verdict	+

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
AND TEX WILLEY WILLEY	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	mains	WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



Р

Reference No.: WTF24D03067594R1Y Page 49 of 67

IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.5.1	Add the following after the first paragraph:	Murra Anti Aut	N/A	
10.0.1. 11 11 11	For RS 1 compliance is checked by measurement under the following conditions:	MALIER MALIER WALTER.	untitle untitle	
	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.	LIER WHITER WHITER WHITER	LIER WILLEY WALTER WALTER WALTER	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	UNLIER WALTER WALTER V	nere where	
	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.	TEX WHITEX WHITEX WH	TER ON TEN ON	
	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 WALTER	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.		EK WYZEK WY	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		· JE LIE	
9	Modification to G.7.1		N/A	
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	uniter whiter	N/A	

Modification to Bibliography

10



Reference No.: WTF24D03067594R1Y Page 50 of 67

The Court of the C	Mr. Mar M.	IEC 62368-1	IEN OLIEK MILIER W	Wife Marie Mile
Clause	Requirement – Test	VILL MULL ME MI	Result – Remark	Verdict

ale		201
, et	Add the following notes for the standards indicated:	P
WILLEY WI	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-331 NOTE Harmonized as EN 61643-331.	Whitek whitek
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15 ONLITE WALLES OF THE STATE OF THE ST	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A SEE SUBSTITUTE SUBSTITUT
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A

Reference No.: WTF24D03067594R1Y Page 51 of 6

1101010100	140:: W11 24B000010041(11	1 ago o i oi oi			
J. alle	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	WILL.
	and the little of the country of the	mr. m. m. m.	
	A warning (marking safeguard) for high touch	A SH ART THE	LIER
	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	HILL MALL WALL WALL	1/2 1/1
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:	ed white white whit w	Li All
	For separation of the telecommunication network from earth the following is applicable:	White white white wh	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	untitle motile motile with	JEE N
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the militarity with and .	
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	ALTER OUTER WHITE WHITE	EX MULLEX
	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	Miret white	WALLEY OF
	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 wh	TER MUTE
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WILLER WILLER WILLER	White
	and	at the the the	NI EK MI
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WALL MALES WALLES WAL	IEK WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NLIER WALLER WALLER	- WILLER
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	irix anir
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	TEK TEK NITEK NIT	EX MITER



Reference No.: WTF24D03067594R1Y Page 52 of 67

	IEC 62368-1	in the things	
Clause	Requirement – Test	Result – Remark	Verdict
- shr	testing, is tested with an impulse test of 2,5 kV	MULTE WALL WALL	Mr. Mr.
	defined in 5.4.11;	aliek whilek whilek	NLIER WALTER
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	stiek miliek miliek mil	IEK WALTER
EK WALTER	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITEK WHITE	who ex mo
5.5.2.1	Norway	t let litt liter	N/A
	After the 3rd paragraph the following is added:	mur mur mur	24 78#
antit an	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Miles Muller Muller M	itie inti .
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	A STIFE WATER WATER	White whi
	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 w	INLIER WALTER
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	Whitek whitek whitek	MUTE MUTE
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WALTER WALTER WALTER W	NLTE MALL
5.6.4.2.1	Ireland and United Kingdom	et tet stet si	N/A
	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	the whitek whitek whitek	while whi
5.6.4.2.1	mains plug. France	at at at	N/A
შ.0.4.∠. 1	After the indent for pluggable equipment type A,	MULLIC MALL WALL	IN/A
N ^{LTE} WN	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.	Mites whites whites wh	ite mit.
5.6.5.1	To the second paragraph the following is added:	ite with mur mur	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	Whitek Whitek Whitek	MUTTER VINIT



Reference No.: WTF24D03067594R1Y Page 53 of 67

IEC 62368-1				
Clause	Requirement – Test	Net Me Me M	Result – Remark	Verdict

5.6.8	Norway	24 24	N/A
	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.	united white white white w	MULIE MITER MULIE
5.7.6	Denmark	Mr. M. M. 20.	N/A
MILIER.	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.	Martiek Martiek Martiek Martiek	MULTER ON
5.7.6.2	Denmark	TEX STEEL WIFE WITE W	N/A
ek volitek	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.	antiek unitek unitek unit	ek vinitek
5.7.7.1	Norway and Sweden	Not such system.	N/A
MALIER ON THE	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which	THE WHITE WH	NITE OF STEEL OF STEE
	may be provided by a retailer, for example.	Life while while while w	201
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	A THE MILITER WHITE	ek white whitek
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILE MUTER MUTER MUTER	aurren au
LIEK WALTE	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)"	THE WALTER WALTER WALTER WALTER	TEX WALT
20, 2	NOTE In Norway, due to regulation for CATV-installations, and	aver My My Mr.	20. 2



Reference No.: WTF24D03067594R1Y Page 54 of 67

	IEC 62368-1	in the tile of	
Clause	Requirement – Test	Result – Remark	Verdict
ale .	The time of time of time of the time of ti	The sale was	1/1/2
NATER ON	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.	WE WIFE WAITER WALTER	MALTEX
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	SITES MITES WALTES WHITES	WALTEK DI
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	EX WHITEX WHITEX WHITEX WH	E WAITER
ner water	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	Inter while while whiles	un itek vun it ek vun it
8.5.4.2.3	United Kingdom	No external circuits.	N/A
	Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	THE SLITE WILLER WILLER	WALTEX W
3.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.4 Neit on the state of the st	The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	mains I would be a second of the second of t	avertek ou
G.4.2	Denmark To the end of the subclause the following is added:	Not directly connected to the mains	N/A
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	TEK WHITEK WHITEK	IN TEK VIN
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	Whitek whitek whitek wh	Y WHITE



Reference No.: WTF24D03067594R1Y Page 55 of 67

	IEC 62368-1	1 2 1 2 2 2 2	
Clause	Requirement – Test	Result – Remark	Verdict
Me	The the the	the cliff with the way	2/1/2
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	TEX TIEX STIEX WITH	MALTER
	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.	THE WHITE WHITE WHITES	walter w
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	Whitek whitek whitek whitek	E WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEK MUTER MUTER MUTER	in the m
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	Whitek whitek whitek whi	t muties
	Justification: Heavy Current Regulations, Section 6c	ALTER MATER	NATER
G.4.2	United Kingdom	Not directly connected to the	N/A
JER WALTE	To the end of the subclause the following is added:	mains	V. Er. MV.
WALTER OF	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	united whited wh	ov strek ov
G.7.1	United Kingdom	at let get get	N/A
	To the first paragraph the following is added:	White Mair Mue M	EA LEA
	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.	MULTER WHITER WHITER WHITER	whitek whi
WILTER	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Whitek multer waiter and	TEN WALTE



Reference No.: WTF24D03067594R1Y Page 56 of 67

16 0	the state of the s		
in an		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Ireland	1.	N/A
To the first paragraph the following is added:	OLIEK MITEK WILLER WHITE	
Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	THE WALTER WALTER WALTER WAS	EL WAY
Ireland and United Kingdom	THE WALL WALL WALL	N/A
To the first paragraph the following is added:	The state of the	
A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	MITTER WAITE WALL WALL	
ANNEX ZC, NATIONAL DEVIATIONS (EN)		
Germany	No CRT within the equipment.	N/A
The following requirement applies:	Mur Mur My In	
For the operation of any cathode ray tube intended	LEK TEK TEK STIER	
for the display of visual images operating at an	where My My My	
	Let tet	
approval (Bauartzulassung) and marking.	Marit wat a	
Justification:	CONTRACTOR OF THE STATE OF	
German ministerial decree against ionizing	The the the	
	- LEX TEXT STEEL STEEL	
96/29/EURATOM.	Must mer mer mer	
NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	untited untited untited untited	
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A. ANNEX ZC, NATIONAL DEVIATIONS (EN) Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-33116 Braunschweig.



Reference No.: WTF24D03067594R1Y Page 57 of 67

71/2	711 121 12	IEC 62368-1	LIFE WALTER WALTER	ren an	2h
Clause	Requirement – Test	in the man	Result – Remark	et d	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	30	<u> </u>
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



Reference No.: WTF24D03067594R1Y Page 58 of 67

ur au	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		

5.2	TABLE: Classificat	ion of electrical er	nergy source	es		4 14	P
Supply	Location (e.g.	Test conditions		Param	eters	·	ES Class
Voltage	circuit designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
EX JEX	LITER WITE WIN	Normal	5.0VDC	1 - N	SS	DC	ES1
5VDC	Input circuit	Abnormal	rli ^{ER} in	TE WILL	11/12- 11	"de	Th.
WALTER W	L'ER WALTE WALTE	Single fault – SC/OC	76th . J.	y Tiek	PITEK-	EK -ITEK	MITEK
all a	EF JEF RITER	Normal	4.2VDC	40, -	SS	DC	ES1
4.2VDC	Battery	Abnormal	18th 17th	WILL WIL	(1 -1)	Mr. M	7/
TEK MATEK	Junited Mariter M	Single fault – SC/OC	No.	STEP STE	k NITEK	unite " wnit	EK WAL

Supplementary information:

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

Normal –Full load and no load. Abnormal - Overload output

SC= short circuit; OC= open circuit

RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
	et Tet S	Et Ster 10	TE MALTE MALL WALL
SINCTE WILL	11/2 11/2	70, -	at the fifth

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method		ISO 306 / B50	weir wei -		
Object/ Part No./Material Manufacturer/trademark Thickness (mm) T softer					
-nr m m	A THE THE STE	MUTE WILL W	is any - and		
Supplementary information:					
n m m	A TEX STEX STEE	WILL MULL MULL	The The The		

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N/A	
Allowed impression diameter (mm) ≤ 2 mm						_	
Object/Part No./Material Manu		Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ession ter (mm)



Page 59 of 67 Reference No.: WTF24D03067594R1Y

			IEC	62368-1				
Clause	Requiremen	nt – Test	NIT WILL W	1. 2.	Result	– Remark	et i	Verdict
alie	14, 14,		1 1 1	CEL CE		10 M	ic. Wi	1/1/2
- 4		-0" K	TELL WITE AND	2115	211			t 18t
Suppleme	ntary information	on:			1			
*	et let	LIFE STE	weil when	20,	20,	<i>y</i> , , ,	. ,t	JEK .

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
-mri mri mr m	10,		18	- Total	JEZ 10	11 ^{ER} -111	E WILL	MUE.
Supplementary information:								

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

5.4.4.2	TABLE: Minimum	distance through insu	lation		N/A
Distance the (DTI) at/of	nrough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
18	LIEN SLIER MLT	WILL MAN MIN	70, - 7	Jt - JJt	TEX -JEX
Supplemen	ntary information:				
*See also	sub-clause 5.4.4.9	21/2 3		of July	est test a

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)	
- with the me	- 10	- 4	# 5EF	TIEK MITE	WILLE AN	The Mari	
Supplementary information:							
when when the the	10.	.L .d+	All C	SER LIE	WILL MILL	Why. A	

5.4.9	TABLE: Electric strength tests	et et let	LIER NUTER MUT	N/A
Test voltage	e applied between:	Voltage shape	Test voltage (V)	Breakdown
		(Surge, Impulse, AC, DC, etc.)		Yes / No
Functional:	THE MULL MULL MULL AND	1 1	it let let	LITER RUTER
70, 20,	a se set set outer	- Will Mill Mill	-115 215 2	1, 1,
Basic/suppl	ementary:	st at at	TEX LIEX N	TEK MITE OF
	at at the wife.	Neith Will Mill	The Man Man	T.
Reinforced:	THE MY TO THE	at the title	TEX LIER OUTE	WITE WILL
T st	EX TEX TEXT DUTE ON	- were sure a		- J+
Routine Tes	sts: W	at the state of	THE STEE WITE	antite where
- 4	LEK LEK LIEK NITER WILL	-mr mr m	- 111, 111	- Jr
Supplemen	tary information:			



Page 60 of 67 Reference No.: WTF24D03067594R1Y

- Me	M. M. M.	IEC 62368-1	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

5.5.2.2	TABLE:	Stored discharge of	tored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class		
70, -	211. 1		Normal	IER NITE OF	Inti Anti.	m-m		
Whitek -	NITEK WY	TE WALLE WALL	Single fault: SC/ OC	- Jet s	SEK TEK SI	LIEK WALTE		

X-capacitors installed for testing are:
[] bleeding resistor rating:
[] INDICATE OF THE PROPERTY OF THE PROPER circuit

5.6.6	TABLE: Resistance of	tions	N/A		
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
		LOVE WALL	The - W	3	4 - 4
Suppleme	ntary information:				
		Te we			

5.7.4	TABLI	E: Unearthed acces	ssible parts	ULL MULL W	ies in in		N/A
Location		Operating and	Supply	F	ES class		
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
L/N to secondary		Normal	All SE	- NITEL MITE	White-Mines	200	11/2 - 11
terminals		Abnormal: overload	Must - Any	TEX TEX	ALTER MALTER	INLIE <mark>I</mark> L	NITER-
		Single fault: SC/ OC	atter more	ne ra	TEX STEX	TEK-ON	SEK IFE
Supplement	ary info	ormation:					
SC= short c	ircuit; (DC= open circuit		st 24 2	et set si	it with	, NUT

5.7.5	TABLE: Earthed acces	sible conductive part	sible conductive part				
Supply volt	age (V)	- TEX STEP STEE	ALTE WALTE W	Ur. AUr. A	_		
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye					
Power Dist	ribution System	[]TN []TT []IT (] TO ME IN THE INTERPRETATION OF THE INTERPRETATIO					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt		
-	at at all a	ex with and with	21/2 - 21/2	20. 2.			
Supplemen	ntary Information:						



Reference No.: WTF24D03067594R1Y Page 61 of 67

100	M. M. M.	IEC 62368-1	LIER UNLIER WALLE WAL	Mr. Mr.
Clause	Requirement – Test	Mer. Mr. M.	Result – Remark	Verdict

5.8	TABLE	: Backfeed s	safeguard in battery	backed up	supplies		N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
rtile mili	Min	Mrs. M.	4, - 4,	76 th .5	et out	LIER - NITE	White My
Supplemen	tary infor	mation:					
The Market of the Control of the Con	arr.	ar ar	10 0	.+ .c.\	- 4 th 5	ET JE	VIL. TUR.

6.2.2	2.2 TABLE: Power source circuit classifications							
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class	
5V Input c	ircuit	USB	WALLET MALL	Aur Aur	- 16k	TEK - LIEK	PS2 (declared)	
Battery	y	. J+ J+	2.925	0.92	2.69	3S	PS1	

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1 TABLE: De	etermination of Arcing PIS	in an	711 711 7	N/A
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
JEEP RETER TO THE			-4 (1)	NITE MITE
Supplementary information	on:			
Charles Will Will	Wer Mer and	1 4 4	of the text	THE SITE

6.2.3.2	TABLE: Determ	ination of resistive PIS	L A A	N/A
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/com	nponents	the tex street writer	Whitek whitek-whitek whi	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 pre	ressure lamp							
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No				



Reference No.: WTF24D03067594R1Y

		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
"alex	The state of the s	TEN TEN TEN WITH WITH WITH	They am
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	" " " " " " " " " " " " " " " " " " "	

Page 62 of 67

Supplementary information:

9.6	TABL	E: Tempei	rature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply volta	age (V).				LE*	JEK J	TEX CLIER	WILLE	_
Max. transn	nit powe	er of transr	nitter (W)		mr. 4	L 20	- J.	*	_
			eiver and contact		eiver and contact		iver and at of 2 mm		ceiver and at ce of 5 mm
Foreign ob	jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
LIER WILLE	anti-	W.C.	21/2 - 21/L		*	.05	16th 16	£ -56th	MITE - NI
Supplement	ary info	rmation:							

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements									
Ambient temperature during test T_{amb} (°C)				5V (Fully dischargin g battery and speaker working)	5V (Fully dischargin g battery and speaker working)	Battery (Max available power speaker and LED with Maximu m brightnes s)	Battery (Max availabl e power speake r and LED with Maximu m brightn ess)			
Ambient temperature during test T_{amb} (°C):				25.0	40.0	25.0	40.0	_		
Maximum meas	sured tempe	rature <i>T</i> of	part/at:		Allowed T _{max} (°C)					
IC CONTRACTOR	aller a	Vr. 10/2		36.3	51.3	32.1	47.1	130		
Battery body		Et JE	- WITE	40.2	55.2	32.5	47.5	65		
Battery wire	ner are	14.	7,4	38.8	53.8	30.7	45.7	80		
Terminal	JEK JEK	- CITER	WELL !	32.8	47.8	27.8	42.8	Ref.		
Speaker wire	200	40,	J.	30.3	45.3	25.7	40.7	80		
LED screen	EK JEK	CLIEN AN	Vry All	36.4	10, - 10,	27.3	7.	48		
Enclosure outs	ide	<i>y</i>	L 1	31.6	LIFET OLIFE	29.6	10 - W	48		
Ambient	LITER OF	LIER WALT	, mr	25.0	40.0	25.0	40.0	et -36t		
Temperature T	of	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed	Insulation		



Reference No.: WTF24D03067594R1Y Page 63 of 67

Later Christian	Mr. Mer. My	IEC 62368-1	LIEN OLIEN WILLER	rie Mirie Miris
Clause	Requirement – Test	Will Mill My My	Result – Remark	Verdict

winding:						T _{max} (°C)	class
- Will My My M	720	- 12	-	d 1	er -Jer	-11E- 101	75 20 31

Supplementary information:

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

B.2.5	T/	ABLE: In	put test					Mar Aug Aug B
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	×	0.090	1 (Referenc e)	WALTER	ountiex	MILLER.	nvi <u>ek</u>	Powered by 5VDC with empty battery (at battery charging mode), Max available power speaker and LED with Maximum brightness.
4.2VDC		0.080	uni ^{TEX} w	NITEK UI	lifek - viri	TEK W	LTER VINI	(Discharging mode with fully charged battery) Max available power speaker and LED with Maximum brightness.

Supplementary information:

The maximum measured current under rated voltage did not exceed 110% of the rated current.

B.3, B.4	TABLE: Abnor	ΓABLE: Abnormal operating and fault condition tests							
Ambient ten	nperature T _{amb} (°	°C)	20		: See l	pelow	_		
Power source	ce for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng:	mr. m. m.	_		
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	า		
Speaker	SC.	4.2	10min	* <u>-</u> 4	Lite o	Speaker no voice, no damage,no hazard.			
Powered by	5VDC with emp	oty battery(at l	battery ch	arging m	ode)	a start	et de		
U1 pin 2-15	sc sc	5VDC	10mins	UNITER.	MITER-WALT	Unit shut down, no dal hazard.	maged, No		
U1 pin 2-19	sc	5VDC	10mins	NITE IL NI	TEK WALTER	Unit shut down, no da hazard.	maged, No		
Powered by	Li-ion Battery (I	Discharging m	node with	fully char	ged battery)	TEK ITEK SITEK	WILLES ALL		
B- to P-	SC	4.2VDC	10min	4/1/1	21/2 1	Unit normal working, r damaged, No hazard.	10		
0 1 1	an, information.								

Supplementary information:

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

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

^{*} 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.

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



Page 64 of 67 Reference No.: WTF24D03067594R1Y

U. 21/2	M. M. M.	IEC 62368-1	VI AVE AVE
Clause	Requirement – Test	Result – Remark	Verdict

- 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.

M.3	TABLE: Pr	otection circu	iits f	or batterie	es provid	ed w	ithin	the equ	ipment	E P S
ls it possible	to install the	battery in a re	evers	e polarity ¡	oosition?	:	اثنارار	" UNLT	- whi v	r
					C	harg	ing			
Equipment Specification			Vo	Itage (V)					Current (A)	
		NITE WALL	ah,	5	1(Reference)				F JULE	
				-	Battery	/ spe	cificat	tion		
Non-rechargeable batteries						Rec	hargeab	le batteries		
		Discharging		ntentional	(Charg	ging		Discharging	Reverse
Manufac	turer/type	current (A)		narging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)
BLUECHAO / LC 351423		anlife <u>k</u> white	- 41	71 <u>7.</u> 21.	4.2 0.09		0.09	EK EK		
Note: The te	sts of M.3.2 a	re applicable o	only v	vhen abov	e appropr	iate d	lata is	s not ava	nilable.	
Specified ba	ttery tempera	ature (°C)	10,			:0	<u>}-</u>		0-65	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rent A)	Voltage (V)	Obse	ervation
Battery	Normal	Charge	EX	7h	nite-wh	0.0)85	0	Unit norma No damag hazard.	
L WITEK W	2/1								mazara.	
Battery	B- to P- SC	Charge	- Jul	7h	EE JANET JANET JANET	0.0	085	0	Unit norma No damag hazard.	
WALLEY W		Charge	W.	7h 7h	SER SANTER	تنامين	085	0	Unit norma	ed, no

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



Reference No.: WTF24D03067594R1Y Page 65 of 67

Vice Murily	My high till to	IEC 62368-1	IET WILL MULICE	recent and
Clause	Requirement – Test	C. Mr. M. M.	Result – Remark	Verdict

M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	ont	aining a se	econdary lithium	P
Maximum	specified	charging voltag	je (V)		lz;	4.2	20,2 20	
Maximum	specified	charging currer	nt (A)		:	0.09	OLIER WITE	_
Highest s	pecified ch	arging tempera	ature (°C)	<u> </u>	U.	65		
Lowest sp	ecified cha	arging tempera	ture (°C)		;6	0 500	WITE WALLE MA	
Battery		Operating		Measuremen	ıt		Observation	on
manufact	ırer/type	and fault condition	Charging voltage (V)	Charging current (A)		Temp.		
Lowest sp	ecified cha	arging temperat	ure: 0°C	TEX TEX		LIFET OLIFE	MALL MALL	Mrs.
BLUECH/ 351423	AO/LC	Normal	4.2	et mitet	tei	Battery mperature: 0°C	The battery charging stop charging	g circuit
BLUECH/ 351423	AO/LC	B- to P- SC	4.2	WALTER WA	tei	Battery mperature: 0°C	The battery charging stop charging	g circuit
Highest sp	ecified cha	arging tempera	ture: 65°C	AEF SE	,	SLIFE ONL	IL WALLE WALL	Mirry
BLUECH/ 351423	AO/LC	Normal	4.20	STEX STEX	tei	Battery mperature: 65°C	The battery charging stop charging	g circuit
BLUECH/ 351423	AO / LC	B- to P- SC	4.20	o at multiple w	tei	Battery mperature: 65°C	The battery charging stop charging	g circuit

Supplementary information:

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

Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A									
Output Circuit	Condition	11 ()()	Time (s)	I _{sc}	(A)	S (VA)					
	Condition	U _{oc} (V)		Meas.	Limit	Meas.	Limit				
- (4)	TER OLIE WITE	Mrs. Mr.	20 /		- A	at a	Et JEY				
		et Jet	LITER OF	LIET WITE	Wei a	Vr. Mr.	n.				
	Cit online white wh	y 24	40, 40,	s A	, t	CENT SER	THE .				
	30	& JER	ALTER OLL	MILITER	are are	100	21, 2,				

Supplementary Information:

SC = short circuit, OC = open circuit



Reference N	o.: WTF24D03067594R1Y	Page 66 of 67

The Maria	Mr. Mr. M.	IEC 62368-1	TER WITER WITER	With Music Mari
Clause	Requirement – Test	Write Auri Mr. M.	Result – Remark	Verdict

T.2, T.3, T.4, T.5	TABLE: S	teady force to	est	Mer	2112 1	EL TEX LIEX DITER		N/A	
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)		Observation		
et let	JEN S	TEK INLIE	Vrie AL	3 4	- 10,	2	4 John 2	EX JEX	
in in	11, 21,		A .	ر ع	EX OLITER	WILL WILL	MUL MUL	1/1/2	
- JEK	JEK OLIE	INLIE WY	J. Mer.	-201	1,,	1	LEK JEK	JEK	
Supplement	ary informati	ion:							
JEK J	EK RUTER	WILL WILL	Chr	24	70	at at	Let Let	LITEN N	

T.6, T.9 TA	BLE: Impa	ct test	mr. n	N/A
Location/Part	Material Thickness (m		Height (mm)	Observation
WALL JUN	140	411. 41.	L 18	TEX LIFE BLIEF WILL WALL WALL
. It s	t Tet	LIFE OLIFE OR	LIE WILL	M M A A
mer me	21/2 1		L TEX	LIEF ALTER MATE WALL WALL TO
Supplementary	information	:		
ive, our	MAY A	AW	A COLO	LIFE WILL WALL WALL WILL

T.7	TABLE: Drop	test	, est - 3	N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
	N- 15	TEX TEX	IF WALL	mer me me me
WITE WALT	Whi M	700 00		THE THE STEEL STEEL STITES WITH MINISTER
4 14	all s	EX LIEK MLT	WILL A	ar an an
Supplementa	ry information	:		
4 4	LET LET	LIEK SLIER	Wer, also	The sale of the sa

T.8	TAE	BLE: Stress	s relief test				N/A
Location/Pa	art	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Obs	ervation
We Me	3	11. 21.	A	TEN N	LIEN WITE	White white	mer me n
Supplemen	tary i	nformation:					
2/1-	20,		a let	All S	IT US	WILL WILL V	ne m. m.

X	TABLE: Alternative method for determining minimum clearances distances							
6	Clearar	ce distanced	nced Peak of working voltage Rec		Measur	ed cl		
	between:		(V)	(mm)	(mn	n)		



Reference No.: WTF24D03067594R1Y Page 67 of 67

nu.	24, 24,		IEC 6	2368-1	y were one one
Clause	Requirement – T	est	20 LT. 20	Result – Remark	Verdict
`*	th tex 2	St Stell	THE WAS	ER WITE WITE WALL	The sure sure
Suppleme	ntary information:				
	A 11 18	· . (6)	CL CL	211. 211. 12.	1 1

4.1.2	TABLE: Critical components information				P P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Enclosure	LG Chem Huizhou Petrochemical Co Ltd	HP171	HB, 70°C, min. thickness:1.5mm	UL 94	UL E476284
Internal wire	Various	Various	Min. 28AWG, VW-1, 80°C	UL 758	UL
Battery	BLUECHAO	LC 351423	3.7V, 90mAh	IEC 62133-2: 2017+A1	Approved
PCB	Shenzhen Guoxu Technology Co., LTD	GX-01	V-0, 130°C	UL 94, UL 796	UL E488125

Supplementary information:

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



Photo Documentation

Reference No.: WTF24D03067594R1Y





Photo 1 Overall view

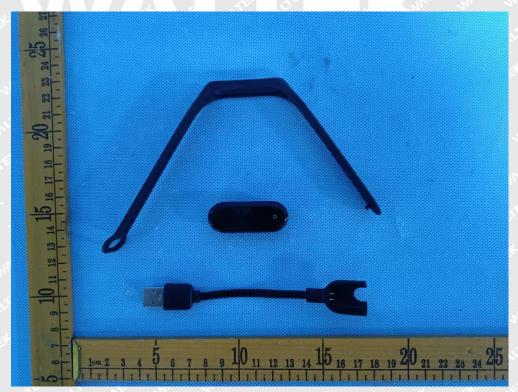


Photo 2 Overall view



Photo Documentation

Reference No.: WTF24D03067594R1Y



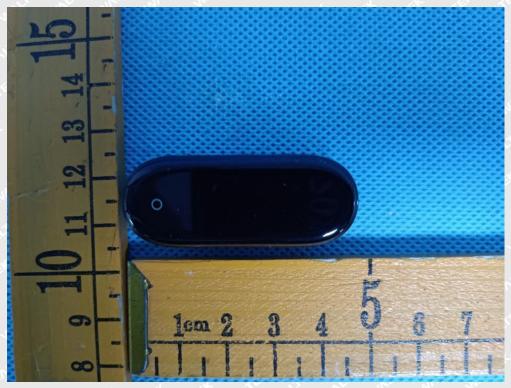


Photo 3 Overall view

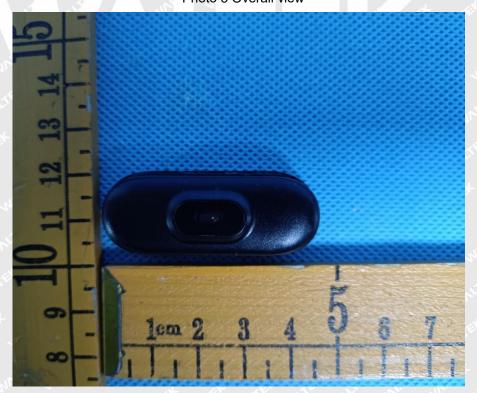


Photo 4 Overall view

Page 3 of 4

Photo Documentation

Reference No.: WTF24D03067594R1Y





Photo 5 Internal view



Photo 6 Internal view

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

Page 4 of 4

Photo Documentation

Reference No.: WTF24D03067594R1Y



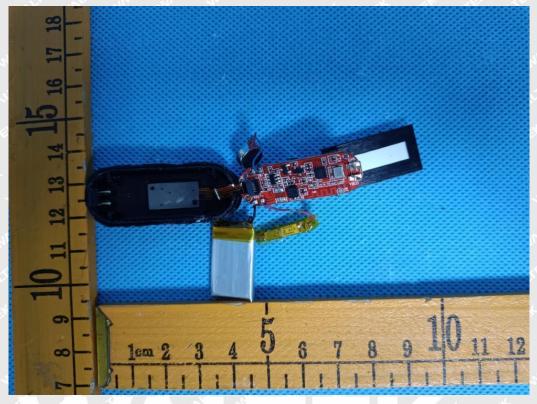


Photo 7 PCB view



Photo 8 PCB view ===== End of Report ======

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