



# **TEST REPORT**

		TEOT INEL OINT
Reference No	:	WTF24D01009355Y
Applicant	m.	Mid Ocean Brands B.V.
Address	TEN.	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloo Hong Kong
Manufacturer	et-	118051
Address	: <	NOT WAY THE THE THE SLITE SUITER MATERIAL
Product	: , , ;	Solar bamboo wireless speaker
Model(s)	: 0,	MO6838
Total pages	N. L.T.	67 pages and 3 pages of photo.
Standards	۔ اد	⊠ EN IEC 62368-1:2020+A11:2020

Part 1:Safety requirements

Audio/video, information and communication technology equipment-

Date of Receipt sample..... : 2024-01-16

Date of Test..... : 2024-01-16 to 2024-02-04

Date of Issue..... : 2024-02-05

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

Soap Hu / Project Engineer

Approved by:

Almon Zhao / Designated Reviewer

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



Reference No.: WTF24D01009355Y Page 2 of 67

Test item description Solar	The transfer of the transfer o
	bamboo wireless speaker
Trademark MOB	
Model and/or type reference: MO68	38 unti un
	5Vdc, 0.5A y: DC 3.7V, 500mAh
Remark:	THE THE THE THE STIER NITTER SINIT
Whether parts of tests for the product have be	en subcontracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab inform	ation:
Test items:	
Lab information:	the text representation of the same of
Summary of testing:	were my my my the state of the
Tests performed (name of test and test clau	use): Testing location:
Note: All tests were evaluated for safety in accordance with standard test specifications.	No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
EU Group Differences	EC 62368-1:2020+A11:2020.
Use of uncertainty of measurement for dec	isions on conformity (decision rule) :
applicable limit according to the specification without applying the measurement uncertain "accuracy method").	standard, when comparing the measurement result with the in that standard. The decisions on conformity are made ty ("simple acceptance" decision rule, previously known as in required by the standard or client, or if national accreditation

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

the testing.





## Copy of marking plate:

MOB / MO6838

**PO BOX 644** 

6710 BP (NL) Made in China

2402-2480MHz

Frequency range: Maximum RF power: 13dBm (EIRP)

PO: 4100113590







## Remark:

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



Reference No.: WTF24D01009355Y Page 4 of 67

TEST ITEM PARTICULARS:	Will all all all all all all all all all
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<ul><li>☐ UK: 13 A; Others: 16 A;</li><li>Location: ☐ building ☐ equipment</li><li>☒ N/A</li></ul>
Equipment mobility:	
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:	<ul><li>N/A ☐ restricted access area</li><li>☐ outdoor location ☐</li></ul>
Pollution degree (PD):	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°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)	⊠ 0.08kg



Reference No.: WTF23D11233557X1Y Page 5 of 67

POSSIBLE TEST CASE VERDICTS:	by my my my 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:	THE THE THE T
Date of receipt of test item:	See covers page.
Date (s) of performance of tests:	See covers page.
GENERAL REMARKS:	LITER WITER WHITE WHITE WHITE WALL WALL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to t	
Throughout this report a $\square$ comma $I \boxtimes$ point is u	sed as the decimal separator.
GENERAL PRODUCT INFORMATION:	title niter inite white white white we
<ol> <li>Product Description</li> <li>The EUT covered by this report is a Power bank use</li> <li>The manufacturer specified maximum ambient temp including 2000 m above sea level.</li> <li>The all electronic components are mounted on PWB ultrasonic welding, all circuits complied with ES1 and</li> </ol>	erature is 25°C. The specified altitude is up to and and housed in a plastic enclosure which is secured by
Model Differences N/A	et nifet unifer unifer unife unife unife unife unife unife unife unifer
Additional application considerations – (Considerations)	rations used to test a component or sub-
N/A TEX TEX WITER WITER WITER	



Reference No.: WTF24D01009355Y Page 6 of 67

Clause	Possible Hazard	At At	JER JIE .	Lite White
	Electrically-caused injury		S	
Class and Energy Source	Body Part	Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
ES1: Lithium Cell output	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S
PS1	Battery circuits	Equipment safeguard (e.g., no ignition occurs)	Equipment safeguard (e.g., control of fire spread)	N/A
7	Injury caused by hazardous substances			
Class and Energy Source	Body Part	Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
3	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

ENERGY SOURCE DIAGRAM			
ndicate which energy sources are included in the energy source diagram. Insert diagram below			
the state with which was an analysis with the state of th			
⊠ ES ⋈ PS ⋈ MS ⋈ TS ⋈ RS			
See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS			



Reference No.: WTF24D01009355Y Page 7 of 67

Unite Maria	EN IEC 62368-1			Marie Marie Mari
Clause	Requirement – Test	is with the man	Result – Remark	Verdict

100	Mill Till till till till till till till t	TET IT IT IN IN	The state of the s
4	GENERAL REQUIREMENTS	3 AV 10 AI AV	P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2 united	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 WAS
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	√n P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	THE THE STATE OF	N/A
4.4.3.3	Drop tests	L M. M. M.	N/A
4.4.3.4	Impact tests	de the street while and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
in with	Glass impact test (1J)	LIER WITER WITE MILL	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	rick write, write many w	N/A
4.4.3.9	Air comprising a safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	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	We also all all	Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	Р
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	A P



Reference No.: WTF24D01009355Y Page 8 of 67

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

	condition	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	
anticity a	No harm by explosion during single fault conditions	(See Clause B.4)	un P
4.6	Fixing of conductors	See below	N/A
	Fix conductors not to defeat a safeguard	The August Augus	N/A
IET WILLE	Compliance is checked by test	CER STEP STEP STEP ST	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)	Mr. Mr. A.	N/A
4.8	Equipment containing coin/button cell batteries	S LIFE OLIFE WALTE WALTE	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	r m m m	N/A
4.8.3	Battery compartment door/cover construction	EX CIEX NUTER INCHES NO	N/A
	Open torque test	Mr. m. m.	N/A
4.8.4.2	Stress relief test	LIER OLIER WILL MILL	N/A
4.8.4.3	Battery replacement test	-W - W - St	N/A
4.8.4.4	Drop test	White mail	N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test	LIE WILL WILL WILL W	N/A
4.8.5	Compliance	and the state of	N/A
Mr	30N force test with test probe	MULL MULL MULL MULL	N/A
JEK.	20N force test with test hook	at let let off	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р
4.10	Component requirements	at let tet tet	N/A
4.10.1	Disconnect Device	VIII MUT MUT AND	N/A
4.10.2	Switches and relays	at let tet treet	N/A

5	ELECTRICALLY-CAUSED INJURY		P
5.2	Classification and limits of electrical energy	imits of electrical energy sources	
5.2.2	ES1, ES2 and ES3 limits	ts which the	P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
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	et let let liter with	N/A



Reference No.: WTF24D01009355Y Page 9 of 67

	7, 7	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Giddoo	1 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	at the second of	10-11-0
5.3	Protection against electrical energy sources	the sure of the sure	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	while while while whi	₩P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TEX TEX STEX STEE	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	A let set set	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
d .	Accessibility to outdoor equipment bare parts	201 101	N/A
5.3.2.2	Contact requirements	LIER WILL WILL MILL	N/A
_E+ _E	Test with test probe from Annex V	an an	
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIER WILL WILL WALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	a state	N/A
5.3.2.3	Compliance	ET WILL WILL ME M	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	WILL MULL MULL MULL	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The sure sure	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P.
5.4.1.5	Pollution degrees	e of the state of	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	white white white wh	N/A
5.4.1.5.3	Thermal cycling test	WILL WILL MULL MULL	N/A
5.4.1.6	Insulation in transformers with varying dimensions	The state of the	N/A
5.4.1.7	Insulation in circuits generating starting pulses	NITE WALL WALL WALL	N/A
5.4.1.8	Determination of working voltage	a at at at	N/A
5.4.1.9	Insulating surfaces	IE WHILE MUTE AND A	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	- NIEK MITER MITER WATER	N/A
5.4.1.10.2	Vicat test	70 x x x	N/A
5.4.1.10.3	Ball pressure test	WILE MULLE MULL MULL	N/A
5.4.2	Clearances	1 A B B	N/A
5.4.2.1	General requirements	LIE MILL MILL MILL	N/A
WILLER	Clearances in circuits connected to AC Mains, Alternative method	Et SLIET WIFET MILIER SU	N/A
5.4.2.2	Procedure 1 for determining clearance	20, 20, 20	N/A
Wer an	Temporary overvoltage	LIFE OUT TO MITE WALL	_



Reference No.: WTF24D01009355Y Page 10 of 67

01	EN IEC 62368-	7 77 77	Manalint
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	Mer were me	N/A
5.4.2.3.2.2	a.c. mains transient voltage	18 11 NICH	mu —
5.4.2.3.2.3	d.c. mains transient voltage	mer are are	~ _
5.4.2.3.2.4	External circuit transient voltage	THE STATE OF STATES	nrie _
5.4.2.3.2.5	Transient voltage determined by measurement	100 111 121 12	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE WITTER WITTER	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	White Milita Milit	N/A
5.4.2.6	Clearance measurement	TEK LIEK OLIEK	N/A
5.4.3	Creepage distances	Mr. Mr. M.	N/A
5.4.3.1	General	LIEF SLIEF SLIEF	N/A
5.4.3.3	Material group	2m, m, a,	<i>*</i> –
5.4.3.4	Creepage distances measurement	Et nitet unitet unit	N/A
5.4.4	Solid insulation	1 1 A A	N/A
5.4.4.1	General requirements	WITE WALL MALL	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation	The same	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	is we me m	N/A
5.4.4.6	Thin sheet material	* TEK TEK LIT	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LITTER STEEL	N/A
. L 2	Number of layers (pcs)	an an an	N/A
5.4.4.6.3	Non-separable thin sheet material	TER TIER WITER	N/A
* #	Number of layers (pcs)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	EK WALTER WALTER WAL	N/A
5.4.4.6.5	Mandrel test	- TEN TEN STE	N/A
5.4.4.7	Solid insulation in wound components	Mr. Mr. Mr.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	WALTER WALTER WALTER	N/A
TEK WILTE	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	LIEF WHILE WHILEK W	N/A
5.4.5	Antenna terminal insulation	1 1 1 1 1	N/A
5.4.5.1	General	White with much	N/A
5.4.5.2	Voltage surge test	4 4 15	N/A



Reference No.: WTF24D01009355Y Page 11 of 67

Clause	EN IEC 62368-	5 41 45 5	Mandiat
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.3	Insulation resistance (MΩ)	The The The	N/A
MULL M	Electric strength test	ALTER MALTER MALTER	"N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	TEX LIEX NUTER I	N/A
5.4.7	Tests for semiconductor components and for cemented joints	of the text	N/A
5.4.8	Humidity conditioning	s me me m	N/A
WALTER OF	Relative humidity (%), temperature (°C), duration (h)	A NOTE MATER WATE	whi -
5.4.9	Electric strength test	at at the	N/A
5.4.9.1	Test procedure for type test of solid insulation	West Mer Mer.	N/A
5.4.9.2	Test procedure for routine test	et set set	N/A
5.4.10	Safeguards against transient voltages from external circuits	in the state of	N/A
5.4.10.1	Parts and circuits separated from external circuits	E WILL MUT AND	N/A
5.4.10.2	Test methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.10.2.1	General	MULL MULL MULL	N/A
5.4.10.2.2	Impulse test	at the	N/A
5.4.10.2.3	Steady-state test	2 24 2	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TE WALLE WALLY WA	N/A
5.4.11	Separation between external circuits and earth	e at at a	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	Mult mir my	N/A
5.4.11.2	Requirements	nite white white	N/A
LIFEH WALTE	SPDs bridge separation between external circuit and earth	STER STER STER I	N/A
	Rated operating voltage U <sub>op</sub> (V)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
MULL	Nominal voltage U <sub>peak</sub> (V)	IEK WITER WHITE MAI	- nr
TEK	Max increase due to variation ΔU <sub>sp</sub>	L AL A	_
21/20 21	Max increase due to ageing ΔU <sub>sa</sub>	WILL WILL MILL	aur -
5.4.11.3	Test method and compliance	A ct ct	N/A
5.4.12	Insulating liquid	WILL MULL MULL	N/A
5.4.12.1	General requirements	at the little	N/A
5.4.12.2	Electric strength of an insulating liquid	ric mer mer m	N/A
5.4.12.3	Compatibility of an insulating liquid	at the the	N/A
5.4.12.4	Container for insulating liquid	Mer Me M	N/A
5.5	Components as safeguards	. It let the	N/A



Reference No.: WTF24D01009355Y Page 12 of 67

01	EN IEC 62368-	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	11/ "
Clause	Requirement – Test	Result – Remark	Verdict
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	me me me	N/A
5.5.2.1	General requirement	TEX STEX NUTER MIT	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	of let tex stex	N/A
5.5.3	Transformers	in mer mer m	N/A
5.5.4	Optocouplers	t let the little	N/A
5.5.5	Relays	The Me Me	N/A
5.5.6	Resistors	TEX LIER OLITER IN	N/A
5.5.7	SPDs	ale ale as a	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIES WHITER WHITE WAITE	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	EX MITEX WALTER WALTER	N/A
J. C.	RCD rated residual operating current (mA)	at at all	<u> </u>
5.6	Protective conductor	White Mury Mury M	N/A
5.6.2	Requirement for protective conductors	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	THE THE LITTLE STIFF	N/A
5.6.3	Requirement for protective earthing conductors	and the man	N/A
	Protective earthing conductor size (mm²)	et the their outer.	in
SLIEK "	Protective earthing conductor serving as a reinforced safeguard	the the test	N/A
184 7	Protective earthing conductor serving as a double safeguard	must must my my	N/A
5.6.4	Requirements for protective bonding conductors	ALTE WALTE WALL WALL	N/A
5.6.4.1	Protective bonding conductors	at at at the	N/A
211.	Protective bonding conductor size (mm²)	THE WALL WALL	24 -
5.6.4.2	Protective current rating (A)	the fet set	N/A
5.6.5	Terminals for protective conductors	mi mi mi	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	UNLIER WALTER WALTER WAL	N/A
TEK WALTE	Terminal size for connecting protective bonding conductors (mm)	THE STEE WIFE WATER	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system	ex write ourie while	N/A
5.6.6.1	Requirements	A A A	N/A
5.6.6.2	Test Method	NITE INITE WILL WA	N/A



Reference No.: WTF24D01009355Y Page 13 of 67

	EN IEC 62368-		, , , , , , , , , , , , , , , , , , ,
Clause	Requirement – Test	Result – Remark	Verdict
5.6.6.3	Resistance (Ω) or voltage drop	the river we will	N/A
5.6.7	Reliable connection of a protective earthing conductor	WALTER WALTER WALTER WALT	N/A
5.6.8	Functional earthing	TEX TEX WIFE WITE	N/A
	Conductor size (mm²)	the state of the state of	N/A
in the	Class II with functional earthing marking	THE STEE STEET WITE S	N/A
	Appliance inlet cl &cr (mm)	144 144 14	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	The state of	N/A
5.7.2.1	Measurement of touch current	CLIEF WITE WALL WALL	N/A
5.7.2.2	Measurement of voltage	an at at agt	N/A
5.7.3	Equipment set-up, supply connections and earth connections	Life While while white	N/A
5.7.4	Unearthed accessible parts	EX SLIER WITE WITE W	N/A
5.7.5	Earthed accessible conductive parts	70, 7	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White White White whi	N/A
VILLE WAS	Protective conductor current (mA)	ALL MITE MITE	N/A
st se	Instructional Safeguard	7 7 7	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	TE WHITE WHITE WHITE	N/A
5.7.7.1	Touch current from coaxial cables	EX TEX LITER OUTER OF	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	The tity that the	N/A
5.7.8	Summation of touch currents from external circuits	and and any and	N/A
* 24	a) Equipment connected to earthed external circuits, current (mA)	NITE WALL WILL WAS	N/A
MILL	b) Equipment connected to unearthed external circuits, current (mA)	EX WALTER WALTER WALTE W	N/A
5.8	Backfeed safeguard in battery backed up suppl	lies of the tree of	N/A
2,, T	Mains terminal ES	No battery used	N/A
CITE OF	Air gap (mm)	LET THE THE THE	N/A

	6	ELECTRICALLY- CAUSED FIRE	LITE PALITY
35	6.2	Classification of PS and PIS	Р



Reference No.: WTF24D01009355Y Page 14 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P. P	
6.2.3	Classification of potential ignition sources	See the following details.	JE P	
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A	
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	√P	
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Uni.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)	INLIE P	
- L	Combustible materials outside fire enclosure	No such parts	N/A	
6.4	Safeguards against fire under single fault condi	tions	Р	
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	ANTIE WALTE	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE WILL WILLIAM WATER OF	N/A	
6.4.3.1	Supplementary safeguards	t of let let l	N/A	
6.4.3.2	Single Fault Conditions	MULL MULL MULL MILL	N/A	
NITEK II	Special conditions for temperature limited by fuse	Et Tet Tet Tet	N/A	
6.4.4	Control of fire spread in PS1 circuits	AUFT AUT AUT AUT	Р	
6.4.5	Control of fire spread in PS2 circuits	at at let set	, CIEP	



Reference No.: WTF24D01009355Y Page 15 of 67

Clause	Requirement – Test	Result – Remark	Verdict
July .	Mr. All The All the	TER STEE WITE WALL WA	701
	Supplementary safeguards	Compliance detailed as follows:	L P.Y
	L IX LEX TEX STEX STEEL SUNTER	1) Printed board: rated V-0	200
	MULTER WHITE WHITER WHITER WHITER WHITER	2) Internal wires: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21.	WALTER V
	WELFEX WHITEX	3) All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying with relevant IEC standard.	EX WALTE WALTEX WALTEX
et STEX	TIEK WITER WITER WITER WITER WITER	V-0 The tape acts as fire barrier used	NEK J
6.4.6	Control of fire spread in PS3 circuits	The many man and any	N/A
6.4.7	Separation of combustible materials from a PIS	at at all s	Р
6.4.7.2	Separation by distance	White Mur Mur Mur	N/A
6.4.7.3	Separation by a fire barrier	V-0 of fire barrier used.	P
6.4.8	Fire enclosures and fire barriers	See below.	Р
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 of fire barrier used.	P
6.4.8.2.1	Requirements for a fire barrier	V-0 of fire barrier used.	Р
6.4.8.2.2	Requirements for a fire enclosure	HB of fire barrier used.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	P
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	Let let liet sites	Р
6.4.8.3.3	Top openings and properties	No top opening	N/A
	Openings dimensions (mm)	ex tex tex other orther or	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
antite of	Openings dimensions (mm)	the cites action national	N/A
alifek mi	Flammability tests for the bottom of a fire enclosure	THE THE THE STEEL	N/A
n 2	Instructional Safeguard	Mr. Mr. Mr. Mr.	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
, st	Openings dimensions (mm)	Very Mrs. Mrs. Am. Am.	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 of fire barrier used.	P



Reference No.: WTF24D01009355Y Page 16 of 67

	EN IEC 62368-	I'm in it was with	
Clause	Requirement – Test	Result – Remark	Verdict
Uni.	And Any Any And Any	EL LIFE WILL AVILLAND	an and
6.4.9	Flammability of insulating liquid	10, 20,	N/A
6.5	Internal and external wiring		JUL 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.	WALTER THE
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	P P
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to ac	ditional equipment	P
	a state of all all all	THE THE WAY THE	
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р
7.2	Reduction of exposure to hazardous substance	is my my my	N/A
7.3	Ozone exposure	at let the the	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
ANITE O	Personal safeguards and instructions	TEX TEX NITER OUT	_
7.5	Use of instructional safeguards and instruction	S of the same of t	N/A
Neith Will	Instructional safeguard (ISO 7010)	LET MITE MILITE	
7.6	Batteries and their protection circuits		Р
ir inci	W W T	APP AV JA STV	الم الله
8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	Ex STER WILLIAM STER STORY	Р
8.3	Safeguards against mechanical energy sources	n, n,	Р
8.4	Safeguards against parts with sharp edges and	corners	<sup>2</sup> P
8.4.1	Safeguards	In the state of	Р
ir aur	Instructional Safeguard:	MS1: Edges and corners of enclosure	P.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	P
8.5	Safeguards against moving parts	t at let det d	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
ing an	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
J. Will.	Moving MS3 parts only accessible to skilled person	TEX STEE WIFE WHITE	N/A
8.5.2	Instructional safeguard:	20, 20, 3	N/A
8.5.4	Special categories of equipment containing moving parts	ex Multer Multer Muller Mu	N/A
8.5.4.1	General	OF ART THE ST	N/A



Reference No.: WTF24D01009355Y Page 17 of 67

Clause	EN IEC 62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.5.4.2	Equipment containing work cells with MS3 parts	me me me	N/A
8.5.4.2.1	Protection of persons in the work cell	OLIER WILL MULTER WALL	N/A
8.5.4.2.2	Access protection override	The state of the	N/A
8.5.4.2.2.1	Override system	ALTE WALTE WALL WALL	N/A
8.5.4.2.2.2	Visual indicator	t at let let	N/A
8.5.4.2.3	Emergency stop system	in the sure sure of	N/A
MILIER	Maximum stopping distance from the point of activation (m)	t mitel whitek whitek was	N/A
UNLTEX WAS	Space between end point and nearest fixed mechanical part (mm):	STEE STEET WITER WATER	N/A
8.5.4.2.4	Endurance requirements	in in the	N/A
r wr	Mechanical system subjected to 100 000 cycles of operation	LIER WILLE MILLE MULT	N/A
, while	- Mechanical function check and visual inspection	EX LIEX NITER WITER W	N/A
d	- Cable assembly	711 711 72	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	White Milies White whi	N/A
8.5.4.3.1	Equipment safeguards	ALTER MITE	N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply	THE STATE OF THE STATE OF	N/A
8.5.4.3.4	Cut type and test force (N):	The state of	N/A
8.5.4.3.5	Compliance	* WITE WHITE WHITE WAS	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
me m	Explosion test	WHITE WALL WALL WALL WALL	N/A
8.5.5.3	Glass particles dimensions (mm):	at let let let	N/A
8.6	Stability of equipment	will mur my my	N/A
8.6.1	General	MS1: Mass of the unit	N/A
20.	Instructional safeguard:	in my my m	N/A
8.6.2	Static stability	- TEK LITER MITTER MITTER	N/A
8.6.2.2	Static stability test	me m. m.	N/A
8.6.2.3	Downward force test	LIER MITER MATER MALTE	N/A
8.6.3	Relocation stability		N/A
NUT.	Wheels diameter (mm):	LIER WILL WILL A	
y Jest	Tilt test	s at at at	N/A
8.6.4	Glass slide test	"Mrit whi with wh	N/A
8.6.5	Horizontal force test:	4 4 4 6	N/A



Reference No.: WTF24D01009355Y Page 18 of 67

	N IEC 62368-1	
nt – Test	Result – Remark	Verdict
1		

8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	The state of	N/A
in any	Test 1, additional downwards force (N)	RUTER WITE WALL WILL	N/A
EX WALLEY	Test 2, number of attachment points and test force (N)	fet stiff attet aviet so	N/A
NLIEK	Test 3 Nominal diameter (mm) and applied torque (Nm)	t get jeet steet steet ou	N/A
8.8	Handles strength	Mer Mr. Mr. M.	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	Mr. Mr. M. M.	N/A
rie Muri	Number of handles:	STEP STEP STEP SPITE	. –
الار ب	Force applied (N):	and the same of th	J. + -
8.9	Wheels or casters attachment requirements	TEX SITES WITE WHITE WI	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	RITER WALTER WALTE WALTE	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test	THE OUTE WALL WALLE OF	N/A
t et	Loading force applied (N)	The state of	N/A
8.10.4	Cart, stand or carrier impact test	ex write while mail and	N/A
8.10.5	Mechanical stability	a state of the	N/A
m, m	Force applied (N)	WILL MULL MULL MULL	1/2
8.10.6	Thermoplastic temperature stability	at at tet tet	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	e they are any an	N/A
INLIE .	Instructional Safeguard	t get get affet mi	N/A
8.11.3	Mechanical strength test	me me me	N/A
8.11.3.1	Downward force test, force (N) applied:	TEX LIEX SLIER WITE	N/A
8.11.3.2	Lateral push force test	The August Augus	N/A
8.11.3.3	Integrity of slide rail end stops	TEN STEE MITES MITES	N/A
8.11.4	Compliance	10, 2, ,	N/A
8.12	Telescoping or rod antennas	IEF NITER WILLER WILLER WI	N/A
<del></del>	Button/ball diameter (mm):	No such parts	_



Reference No.: WTF24D01009355Y Page 19 of 67

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

9	THERMAL BURN INJURY		P.+
9.2	Thermal energy source classifications	A STEEL WITE WALL WALL	WP .
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	No. B. W.
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P.
9.4	Safeguards against thermal energy sources	in the second	+ Pat
9.5	Requirements for safeguards		.√P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P.F.
9.5.2	Instructional safeguard	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	is my my my	N/A
9.6.1	General	y ret ret life life	N/A
9.6.2	Specification of the foreign objects	(See appended table 9.6)	N/A
9.6.3	Test method and compliance::	(See appended table 9.6)	N/A

10	RADIATION		LITE POLIT
10.2	Radiation energy source classification		Р
10.2.1	General classification	See below	P
- J	Lasers	Mr. Mr. Mr. Mr.	_
unitie v	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	_
ir, m	Image projectors:	NITE WILL WALL WALL	_
et je	X-Ray:	A ST ST ST	_
11/2	Personal music player:	the write mer m	
10.3	Safeguards against laser radiation		N/A
16k	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	os and lamp systems	All P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	V. Bill
WALTE	Instructional safeguard provided for accessible radiation level needs to exceed	LEX MULTER MULTER MULTER MAN	N/A
J. C.	Risk group marking and location:	at at at a	N/A



Reference No.: WTF24D01009355Y Page 20 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
"IL"		TER WALLE MALL MALL	10, 20,	
	Information for safe operation and installation		N/A	
10.4.2	Requirements for enclosures	White Muris Whis	N/A	
10 S	UV radiation exposure		N/A	
10.4.3	Instructional safeguard	MITE WILL MI	N/A	
10.5	Safeguards against X-radiation		N/A	
10.5.1	Requirements	No X-radiation	N/A	
LIEK	Instructional safeguard for skilled persons	L A AT AT	·	
10.5.3	Maximum radiation (pA/kg)	Murit Muri Muri	1n -	
10.6	Safeguards against acoustic energy sources	let let liet	N/A	
10.6.1	General	No such equipment	N/A	
10.6.2	Classification	THE THE THE	N/A	
	Acoustic output L <sub>Aeq,T</sub> , dB(A)	15. Mr. M. M.	N/A	
MALTE	Unweighted RMS output voltage (mV):	Et JET JET STE	N/A	
	Digital output signal (dBFS)	14, 14, 14,	N/A	
10.6.3	Requirements for dose-based systems	TEX STEE WITE	N/A	
10.6.3.1	General requirements	'm' 2n 2n	N/A	
10.6.3.2	Dose-based warning and automatic decrease	LEE MILIE IN	N/A	
10.6.3.3	Exposure-based warning and requirements		N/A	
Mer	30 s integrated exposure level (MEL30):	I'M RITE WILL WILL	N/A	
- et	Warning for MEL ≥ 100 dB(A)		N/A	
10.6.4	Measurement methods	THE WALTER WALE	N/A	
10.6.5	Protection of persons	1 14 14	N/A	
115 11	Instructional safeguards	WILL WILL MILL	N/A	
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	STEE STEEL WITER AND	N/A	
10.6.6.1	Corded listening devices with analogue input		N/A	
me	Listening device input voltage (mV)	LET INITE WILL WALL	N/A	
10.6.6.2	Corded listening devices with digital input	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
21/27. 2	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	INLIE WILLE WILLE	N/A	
10.6.6.3	Cordless listening devices	1 1 1	N/A	
10, 10,	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	WILL WILL WILL A	N/A	

В	NORMAL OPERATING CONDITION TESTS CONDITION TESTS AND SINGLE FAULT (		P
B.1	General	- I TEN LIFE NITE WILLE WIN	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P
B.2	Normal operating conditions	ITEX SLIFE WHEE MALLE SWALL	WP W



Reference No.: WTF24D01009355Y Page 21 of 67

	EN IEC 62368-	The the the	A
Clause	Requirement – Test	Result – Remark	Verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
Stept of	Audio Amplifiers and equipment with audio amplifiers	WITH WITH THE TEXT	N/A
B.2.3	Supply voltage and tolerances	See pages 2 rating.	20 P
B.2.5	Input test	(See appended table B.2.5)	TE P
B.3	Simulated abnormal operating conditions	in my my my m	Р
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
INCTE OF	Instructional safeguard	THE STEP NITE OUTE	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	4 4 4	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions		
B.4.1	General		Р
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	P.O
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	JOSÉ P.
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	TEK P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	NI P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	un P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P



Reference No.: WTF24D01009355Y Page 22 of 67

- 2,	EN IEC 62368-	D. 10. 20. 2	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
D 4.0		the returnity of the sol	70
B.4.9	Battery charging and discharging under single fault conditions	See annex M	EL PEL
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	y and any and	N/A
C.2	UV light conditioning test	et tet tet atet a	N/A
C.2.1	Test apparatus:	The The In In	N/A
C.2.2	Mounting of test samples	TEN TEN STEEN OUT	N/A
C.2.3	Carbon-arc light-exposure test	Mr. Mr. M. M.	N/A
C.2.4	Xenon-arc light-exposure test	THE THE STILL MITTER	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	TER STEEL WILLIAM SINTER	N/A
D.2	Antenna interface test generator	The Contract of the Contract o	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Electrical energy source classification for audio signals		N/A
CENT SE	Maximum non-clipped output power (W):	t the	_
211	Rated load impedance (Ω):	Life while while while "	<u></u>
t JEK	Open-circuit output voltage (V):	L at at let	g —
71/2	Instructional safeguard:	MULT MULT ME ME	_
E.2	Audio amplifier normal operating conditions	- let tet stet sut	N/A
2, 2	Audio signal source type:	me, me, m, m,	_
LITE MAL	Audio output power (W):	THE THE LIFE MUTET	_
	Audio output voltage (V):	he me me m	_
MALTE	Rated load impedance (Ω):	LEK STEK STEK SINTER	7
	Requirements for temperature measurement	24, 24, 76	N/A
E.3	Audio amplifier abnormal operating conditions	CITE MITTER MILITER WAS	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		WALT P
F.1	General	M. M. A.	Р
is MULLY	Language:	English	
F.2	Letter symbols and graphical symbols	70 00	P.
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р



Reference No.: WTF24D01009355Y Page 23 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P	
F.3	Equipment markings	THE WITE WITE WHITE	W P	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P W	
F.3.2	Equipment identification markings	See below for details.	√lP	
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р	
F.3.2.2	Model identification	See copy of marking plate	A P	
F.3.3	Equipment rating markings	See below for details.	UE P	
F.3.3.1	Equipment with direct connection to mains	The Mure and any	N/A	
F.3.3.2	Equipment without direct connection to mains	See above.	P	
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р	
F.3.3.4	Rated voltage:	See copy of marking plate.	Р	
F.3.3.5	Rated frequency	DC supply	Р	
F.3.3.6	Rated current or rated power	See copy of marking plate.	P	
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	W. W. A.	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	* White white white whi	N/A	
F.3.5.2	Switch position identification marking:	THE LIER SLIER WILL	N/A	
F.3.5.3	Replacement fuse identification and rating markings	on the text text	N/A	
- Zn	Instructional safeguards for neutral fuse	WILL MULL MULL MULL	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	to the title will	N/A	
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A	
F.3.6.1	Class I equipment	Will Mer Mer Mer Mer	N/A	
F.3.6.1.1	Protective earthing conductor terminal	of ret itely will	N/A	
F.3.6.1.2	Protective bonding conductor terminals:	The Mar Mr. M. A.	N/A	
F.3.6.2	Equipment class marking:	et get get stret in	N/A	
F.3.6.3	Functional earthing terminal marking:	Mr. Mr. M. M.	N/A	



Reference No.: WTF24D01009355Y Page 24 of 67

Clause	Requirement – Test	Result – Remark	Verdict
Ciause	Troquitement – Test	TOOUR - Nomark	Veruici
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	t anitest
F.3.8	External power supply output marking:	See copy of marking plate.	Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	MALE P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	PARTER OUT TEET OUT TEET OUT TEET
F.4	Instructions	at at alt of	P
111 1	a) Information prior to installation and initial use	See user manual	, P
NLIEK WA	b) Equipment for use in locations where children not likely to be present	WILLER WALLER	N/A
et di	c) Instructions for installation and interconnection		N/A
- CA	d) Equipment intended for use only in restricted access area	The write with which we	N/A
white	e) Equipment intended to be fastened in place	* LIET NITE WITE WA	N/A
J.	f) Instructions for audio equipment terminals	711 711	N/A
men m	g) Protective earthing used as a safeguard	SITE MITE WALL SWALL	N/A
LIEK WALT	h) Protective conductor current exceeding ES2 limits	TEX TEX STEX STEX	N/A
A- A	i) Graphic symbols used on equipment	L. M. M. D.	N/A
MULL	j) Permanently connected equipment not provided with all-pole mains switch	LEX WHITE WHITE WHITE WE	N/A
MALTER	k) Replaceable components or modules providing safeguard function	UNLIEK WALTER WALTER WALTER	N/A
THE S	Equipment containing insulating liquid	at at at alt	N/A
1, 10,	m) Installation instructions for outdoor equipment	MUTTER MUTE MUTE MUTE	N/A
F.5	Instructional safeguards	at all the the	N/A
G	COMPONENTS		Р
G.1	Switches	at let let little	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	CH CH TEX IT	N/A



Reference No.: WTF24D01009355Y Page 25 of 67

01	EN IEC 62368-	2 41 - 12 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	1,,
Clause	Requirement – Test	Result – Remark	Verdict
G.1.3	Test method and compliance	Mur. Mur. Mur.	N/A
G.2	Relays	LIER OLIER MILE	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	RITER WITE WALL WA	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	THE STEE STEEL STATE	N/A
G.2.4	Test method and compliance	24. 25. 2	N/A
G.3	Protective devices	EX STEE MITE WALTE	N/A
G.3.1	Thermal cut-offs	No such component	N/A
ing in	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	MULTER MULTER WALTER	N/A
LILE WALL	Thermal cut-outs tested as part of the equipment as indicated in c)	LIEK WALTER WALTER WAL	N/A
G.3.1.2	Test method and compliance	CH THE THE STEE	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	WAITER WAITER WAITER	N/A
ناج التالي	b) Thermal links tested as part of the equipment	at the	N/A
G.3.2.2	Test method and compliance	2 24/2 24	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	* Writer Writer Writer	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	NITER MITER MITER	N/A
G.3.5.2	Single faults conditions:	The state of	N/A
G.4	Connectors	WILLIAM THE MUST MA	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	it while much much	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	- NITEH MALTER MALTER	N/A
G.5	Wound components	The state of	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.5.2	Endurance test	LIE MALL WALL WALL	N/A
G.5.2.1	General test requirements	a at at at	N/A
G.5.2.2	Heat run test	WHILL MALL MALL	N/A
CENT	Test time (days per cycle):	A ST ST	. TE



Reference No.: WTF24D01009355Y Page 26 of 67

	EN IEC 62368-	2 41 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Clause	Requirement – Test	Result – Remark	Verdict
- 10-	Toot tomporature (°C)	Mill Mr. Mr.	10, 10,
0500	Test temperature (°C)	1 1 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	— N/A
G.5.2.3	Wound components supplied from the mains	They are along	N/A
G.5.2.4	No insulation breakdown	at the sale	N/A
G.5.3	Transformers	ing mer mer a	N/A
G.5.3.1	Compliance method:	CERT CERT CERT CO	N/A
	Position	y mer any an	N/A
- JE.	Method of protection	t 15th 15th nite	N/A
G.5.3.2	Insulation	we we w	N/A
WILLE WIL	Protection from displacement of windings:	TER TER STEE	
G.5.3.3	Transformer overload tests	Mr. Mr. Mr.	N/A
G.5.3.3.1	Test conditions	TEN TEN STEED	N/A
G.5.3.3.2	Winding temperatures	5 245 24 25	N/A
G.5.3.3.3	Winding temperatures - alternative test method	Et JEK WEEK WI	N/A
G.5.3.4	Transformers using FIW	1/11 1/11 1/11	N/A
G.5.3.4.1	General	LIER WHEE WILL	N/A
	FIW wire nominal diameter:	White American	_
G.5.3.4.2	Transformers with basic insulation only	LET MALTE	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	t lit let let	N/A
G.5.3.4.5	Thermal cycling test and compliance	MULL MULL MULL	N/A
G.5.3.4.6	Partial discharge test	LEN TEN TEN	N/A
G.5.3.4.7	Routine test	mer me me	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	he me me a	N/A
G.5.4.2	Motor overload test conditions	Et SEX SEX N	N/A
G.5.4.3	Running overload test	me me m	N/A
G.5.4.4.2	Locked-rotor overload test	- TEN STEN NITE	N/A
,+	Test duration (days):	20, 20, 20	
G.5.4.5	Running overload test for DC motors	LIET NIET WITE	N/A
G.5.4.5.2	Tested in the unit	14 74 70 T	N/A
G.5.4.5.3	Alternative method	LIET WITE WITE	N/A
G.5.4.6	Locked-rotor overload test for DC motors	- W 32	A N/A
G.5.4.6.2	Tested in the unit	et night anie mai	N/A
	Maximum Temperature:	70 70 70	N/A

Reference No.: WTF24D01009355Y Page 27 of 67

Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.6.3	Alternative method	The Till the	N/A
G.5.4.7	Motors with capacitors	LIEF ALTER MATER	N/A
G.5.4.8	Three-phase motors	20, 10, 10,	N/A
G.5.4.9	Series motors	SLIFET MITE WALLEN	N/A
et et	Operating voltage:		* -
G.6	Wire Insulation	LIE WILLE WALLE WALL	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	UNLIE WALTE WALTE	N/A
G.7	Mains supply cords	A ST ST	N/A
G.7.1	General requirements	No such component	N/A
LIEK SLIE	Type:	et let let	IEEE _
G.7.2	Cross sectional area (mm² or AWG):	the me me me	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	EX WITER MATER MATE	N/A
G.7.3.2	Cord strain relief	at the the	N/A
G.7.3.2.1	Requirements	MULL MILE MILE	N/A
NITER OLI	Strain relief test force (N)	It of the	N/A
G.7.3.2.2	Strain relief mechanism failure	2 4 14 14	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	the the title all	N/A
G.7.3.2.4	Strain relief and cord anchorage material	211 211 211	N/A
G.7.4	Cord Entry	I THE STEEL WITE	N/A
G.7.5	Non-detachable cord bend protection	14, 14, 14,	N/A
G.7.5.1	Requirements	LIER OLIER MILE O	N/A
G.7.5.2	Test method and compliance	711 72	N/A
T W	Overall diameter or minor overall dimension, <i>D</i> (mm)	NITE WHITE WHITE WH	_
E. WILLE	Radius of curvature after test (mm):	Et liet Niet Mie	_ u
G.7.6	Supply wiring space	24. 24.	N/A
G.7.6.1	General requirements	LIES MITE MAILE	N/A
G.7.6.2	Stranded wire	20 20 1	N/A
G.7.6.2.1	Requirements	THE MILE WALTE W	N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors	NITER WALL WALL WALL	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	in while with my	N/A
G.8.2.1	General	L A A	N/A



Reference No.: WTF24D01009355Y Page 28 of 67

<u> </u>	EN IEC 62368-		
Clause	Requirement – Test	Result – Remark	Verdict
G.8.2.2	Varistor overload test	Ang Ang Ang Ang	N/A
G.8.2.3	Temporary overvoltage test	LIEK NITER MITERIANTI	N/A
G.9	Integrated circuit (IC) current limiters	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.9.1	Requirements	No such component	N/A
Et LEY	IC limiter output current (max. 5A)		_
2112	Manufacturers' defined drift:	TEX MITTER WHITE MIND W	_
G.9.2	Test Program	i de de de de	N/A
G.9.3	Compliance	WALL MALL MALL AND	N/A
G.10	Resistors	at at the off	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	ICH TEN TEN STEEL	N/A
G.10.3	Resistor test	ir me me m	N/A
G.10.4	Voltage surge test	Et its liter client	N/A
G.10.5	Impulse test	The The The	N/A
G.10.6	Overload test	TEN STEEL WITE WITE	N/A
G.11	Capacitors and RC units	The state of the s	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	- 1 C	N/A
G.11.3	Rules for selecting capacitors	ITE OLIVE WALL WALL V	N/A
G.12	Optocouplers		
Mr.	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
mrii m	Type test voltage V <sub>ini,a</sub>	ALTER MALTER MALTER MALTE	_
set s	Routine test voltage, V <sub>ini, b</sub> :	Su to the lite	_
G.13	Printed boards	NITER INITER WALL WALL	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	to the the tipe of	N/A
G.13.3	Coated printed boards	The Mr. Mr. In.	N/A
G.13.4	Insulation between conductors on the same inner surface	UNITER WALTER WALTER WALTER	N/A
G.13.5	Insulation between conductors on different surfaces	LIEF MITER WHITER	N/A
t the	Distance through insulation:	s at at at	N/A
21/2	Number of insulation layers (pcs)	e were mer mer m	_
G.13.6	Tests on coated printed boards	4 4 4 6	N/A



Reference No.: WTF24D01009355Y Page 29 of 67

	EN IEC 62368-	2, 41, 72, 2	1
Clause	Requirement – Test	Result – Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection	me me me m	N/A
G.13.6.2	Test method and compliance	THE NITE WILL WALL	N/A
G.14	Coating on components terminals		
G.14.1	Requirements	OLITER WITE WHILE WHILE	N/A
G.15	Pressurized liquid filled components	the state of the s	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	e at at at	N/A
G.15.2.1	Hydrostatic pressure test	MULL MALL MALL MI	N/A
G.15.2.2	Creep resistance test	at at 1th 1	N/A
G.15.2.3	Tubing and fittings compatibility test	White Muse And And	N/A
G.15.2.4	Vibration test	Et TEX TEX STEX	N/A
G.15.2.5	Thermal cycling test	Tr. Mr. Mr. M.	N/A
G.15.2.6	Force test	Et TEK STEK STEEL	N/A
G.15.3	Compliance	Mr. M. M.	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
reit with	ICX with associated circuitry tested in equipment	LEK NAITE MALTE	N/A
A 18	ICX tested separately	- 1 / L / L	N/A
G.16.2	Tests	ite with with white	N/A
- INLIEK	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	of the life outlit of	<u> </u>
SLIEK IN	Mains voltage that impulses to be superimposed on	the text text of	· –
TEX I	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	min my my min	_
G.16.3	Capacitor discharge test	ALTE WALTE WALL WALL	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	The white many were a	N/A
H.2	Method A	at the test start as	N/A
H.3	Method B	Muss. Muss. Mus. Mus. Mil.	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	LIER NITER WALLE WALLE	<u> </u>
H.3.1.2	Voltage (V)	70 20	_
H.3.1.3	Cadence; time (s) and voltage (V):	et miret anire anire w	8
H.3.1.4	Single fault current (mA)::		



Reference No.: WTF24D01009355Y Page 30 of 67

	EN IEC 62368-	L. " " " " " " " " " " " " " " " " " " "	1
Clause	Requirement – Test	Result – Remark	Verdict
H.3.2	Tripping device and monitoring voltage	in the the the th	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	WALTER WALTER WALTER WAL	N/A
H.3.2.2	Tripping device	TEX TEX LIER NIE	N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	OUT INTERLEAVED	N/A
J.1 (1)	General	et tet tet tiet stet ni	N/A
- A	Winding wire insulation:	Mr. Mr. Mr. M.	_
WEIGHT ON	Solid round winding wire, diameter (mm):	TEX STER STEEL STEEL	N/A
LIEK NL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²)	of the tex stex	N/A
J.2/J.3	Tests and Manufacturing	her mer mer me	' _ `
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	ne me ne	N/A
MULTER	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanism		
K.3	Inadvertent change of operating mode		
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	in me me me	N/A
K.5.1	Under single fault condition	LA CLER STEEL WILLIAM	N/A
K.6	Mechanically operated safety interlocks	m. m. m.	N/A
K.6.1	Endurance requirement	TIES STEEL WILLIAMS	N/A
K.6.2	Test method and compliance:	m m m	N/A
K.7	Interlock circuit isolation	alter niter unite white	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	et jet lifet sijet.	N/A
- LIEK	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
ZEH-	In circuit isolated from mains, separation distance for contact gaps (mm):	Must aus sur au	N/A
	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):	TER STEE WIFE MITE	N/A
K.7.3	Endurance test	1 1 x x	N/A
K.7.4	Electric strength test	see writer write main on	N/A
L	DISCONNECT DEVICES		N/A
L.1 1	General requirements	NITE MITE WALL WALL	N/A



Reference No.: WTF24D01009355Y Page 31 of 67

Clause	Requirement – Test	Result – Remark	Verdict
Ciause	Requirement – Test	Mesuit – Memark	verdict
L.2	Permanently connected equipment	With the same and	N/A
L.3	Parts that remain energized	OLITER ADJE WALL WALL	N/A
L.4	Single-phase equipment	The state of the	N/A
L.5	Three-phase equipment	RETER WITE WALL WALL	N/A
L.6	Switches as disconnect devices	a start of	N/A
L.7	Plugs as disconnect devices	it will will must m	N/A
L.8	Multiple power sources	L A B B C	N/A
11/2 1	Instructional safeguard	write whi we we	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	Р
M.1	General requirements	White Mur Aug Mil	Р
M.2	Safety of batteries and their cells	it let let lite	CIT <sup>(C)</sup> P
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	P
М.3	Protection circuits for batteries provided within the equipment	MULL MULL MULL MA	Р
M.3.1	Requirements	RITER WITE WALL WALL	WP.
M.3.2	Test method	The state of	P
he m	Overcharging of a rechargeable battery	(See appended table Annex M)	₩ P
i. Aur.	Excessive discharging	(See appended table Annex M)	P.I
WALTER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
Writer M	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	UNLTE P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	P P
M.4.1	General	me me me m	Р
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	AND P
M.4.2.1	Requirements	LIFE RETER WITE WILL	N/A



Reference No.: WTF24D01009355Y Page 32 of 67

01	Destruction AT TAX	Desuit Demands	1/
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	TEX TEX STEX SUTEX	Р
M.4.4.2	Preparation and procedure for the drop test	hi mi me in	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P.
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	PI
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	W. P
M.4.4.6	Compliance	TEX JEX JIEX MITE	P
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	THE THE LIFE NUT	N/A
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	ALTER MITTER	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.	PALTER P
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
TEN J	Calculated hydrogen generation rate:	a at at at	N/A
M.7.2	Test method and compliance	HILL MULL MULL MULL	N/A
EX JEX	Minimum air flow rate, Q (m³/h)	at at at	N/A
M.7.3	Ventilation tests	THE THE THE THE THE	N/A
M.7.3.1	General	- Jet Jet Jet J	N/A
M.7.3.2	Ventilation test – alternative 1	Mer Mer My My	N/A
NLTER NA	Hydrogen gas concentration (%)	TEK JEK SJEK NITER	N/A
M.7.3.3	Ventilation test – alternative 2	ing in in in	N/A
TE WALL	Obtained hydrogen generation rate:	TEX LIEX SLIER WITE	N/A
M.7.3.4	Ventilation test – alternative 3	in the sure of	N/A
WILL	Hydrogen gas concentration (%)	it sife with while wh	N/A
M.7.4	Marking	24. 2.	N/A



Reference No.: WTF24D01009355Y Page 33 of 67

Unite Ministry	My My My	EN IEC 62368-	Life write while	MUTE MILL MILL
Clause	Requirement – Test	The Marie and the	Result – Remark	Verdict

M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		
M.8.1	General	mr. m. m. m.	N/A
M.8.2	Test method	THE THE STILL STILL	N/A
M.8.2.1	General	ref and any	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m³/s):	THE LITTER SLITTER SPLITTER SUP	30°
M.8.2.3	Correction factors	The sales of the s	* -
M.8.2.4	Calculation of distance d (mm)	A STEE WITE WALL WAL	1/2
M.9	Preventing electrolyte spillage	The state of the	N/A
M.9.1	Protection from electrolyte spillage	CLIER WHILE WHILE AND	N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse	the many many many of	N/A
Me	Instructional safeguard	Et Mile anile while wh	N/A
N 👉	ELECTROCHEMICAL POTENTIALS		N/A
11/1/2	Material(s) used	WILL MULL MULL MULL	Also.
0.0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
10 m	Value of X (mm)	Mary Mary	z <sub>n</sub> —
PY JIE	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of	entry of a foreign object	P
P.2.1	General	me me m	Р
P.2.2	Safeguards against entry of a foreign object	TER STER NITER WITE	P
· ·	Location and Dimensions (mm)	No opening.	·
P.2.3	Safeguards against the consequences of entry of a foreign object	NIFE WHITE WHITE WHITE	N/A
P.2.3.1	Safeguard requirements	the tell tell states of	N/A
TEK	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE THE SE	N/A
20, 1	Transportable equipment with metalized plastic parts	MUST MUST AND AND	N/A
P.2.3.2	Consequence of entry test	CLIEF WILL WILL WALL	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	a at at at	N/A
P.3.3	Spillage safeguards	White mer mer an	N/A
P.3.4	Compliance	1 1 1 15	N/A



Reference No.: WTF24D01009355Y Page 34 of 67

<u> </u>	(1) (1) (1) (1)		
ur m		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	7117 711 72	N/A
re an	Conditioning, T <sub>C</sub> (°C):	alter mite unlie white	orn —
et d	Duration (weeks):	a at at	ret —
Q diff	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	See appended table Annex Q.1	N/A
Q.1.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
1000 11	a) Inherently limited output	WITE WALL WALL WALL	N/A
det o	b) Impedance limited output	L It It It	N/A
21/2	c) Regulating network limited output	The Marie Marie Marie	N/A
ek writer	d) Overcurrent protective device limited output	at let let let	N/A
	e) IC current limiter complying with G.9	must must must me	N/A
Q.1.2	Test method and compliance	See below	N/A
IN TEXT	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N/A
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
MUL	Maximum output current (A):	THE OUTE MILE WILL OF	N/A
t let	Current limiting method		# -x
R	LIMITED SHORT CIRCUIT TEST	EL WILL WHILL MUST MUST	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	WHITE WALL WALL WALL WALL	N/A
JEH N	Overcurrent protective device for test:	at at let let	J. C. F.
R.3	Test method	VILL MUT MUT AND	N/A
Et NIE	Cord/cable used for test	at the text that a	7 EK _16
R.4	Compliance	The Mer My An	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	of the test of the said	Р
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		P
11. 20	Samples, material	Wood	- cn -
TEX OU	Wall thickness (mm)	3.66mm	NITER -
2,,	Conditioning (°C):	or mer mer my	
WALTE	Test flame according to IEC 60695-11-5 with conditions as set out	Et WALTER WALTER WA	Р
A CONTRACTOR OF THE PARTY OF TH	- Material not consumed completely	1 1 1 1	Р



Reference No.: WTF24D01009355Y Page 35 of 67

-21,	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- Marie	- Material extinguishes within 30s	the many many many and	Р
Write.	- No burning of layer or wrapping tissue	TER ALTER MITTER WAL	Р
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
The Mai	Samples, material:	SLITE MITE MILIER MINISTER	mr.
et e	Wall thickness (mm):	and the second	18t -
M	Conditioning (°C):	LEE WALLE WALLE WALL	11 TIL
S.3	Flammability test for the bottom of a fire enclose	sure	N/A
S.3.1	Mounting of samples	MULL WELL ME ME	N/A
S.3.2	Test method and compliance	LEK TEK TEK ATT	N/A
n 2,	Mounting of samples:	aher Any Any	7, -
LIE MI	Wall thickness (mm)	TEK ITEK STIEK RITEK	MUTE N
S.4	Flammability classification of materials	on the son	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	EX WHITE WHITE WHITE A	N/A
1115 1	Samples, material	White Mail Mail Mai	40,
STEK N	Wall thickness (mm)	at a set of	F STEE
20	Conditioning (°C)	A Mr. Ang	20, -
The soul	MECHANICAL STRENGTH TESTS	THE THE LITTE	N/A
T.1	General Andrews Market	ir, me in in in	N/A
T.2	Steady force test, 10 N:	et itel liter outer in	N/A
Т.3	Steady force test, 30 N:	me in in	N/A
T.4	Steady force test, 100 N:	TEX STEE STEEL STEEL STORY	N/A
T.5	Steady force test, 250 N:	211, 21, 2	N/A
T.6	Enclosure impact test	LIER NITER WITE WALL	N/A
et el	Fall test	and the state of	N/A
21/2	Swing test	THE MALTE MALLE WALL V	N/A
T.7	Drop test:	and the set of	N/A
T.8	Stress relief test:	mer mer me	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	mer mer me m	N/A
TE MALT	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	V. M. M. M.	N/A
MULT	Torque value (Nm):	No such antennas provided within the equipment.	N/A



Reference No.: WTF24D01009355Y Page 36 of 67

<u> </u>			
in an		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Oludoo	Troquiroment Tool	Troodic Tromanc	TVOIGIOU
U CALLERY	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
J.1	General	me me me	N/A
LIFE. WY	Instructional safeguard:	No CRT provided within the equipment.	N/A
J.2	Test method and compliance for non-intrinsicall	ly protected CRTs	N/A
J.3	Protective screen	riching my my a	N/A
1 NOTES	DETERMINATION OF ACCESSIBLE PARTS	at lef liter liter of	N/A
V.1	Accessible parts of equipment	me me me	N/A
V.1.1	General	TEX JEX SITE OUTE	N/A
V.1.2	Surfaces and openings tested with jointed test probes	on the text step	N/A
V.1.3	Openings tested with straight unjointed test probes	The Man Man Man	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	of let the the	N/A
V.1.5	Slot openings tested with wedge probe	MUT, MUT, MUT, M	N/A
V.1.6	Terminals tested with rigid test wire	TEX TEX STEE OUT	N/A
V.2	Accessible part criterion	The August Augus	N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDIN 420 V PEAK (300 V RMS)		N/A
- suc	Clearance	I'E MITE WALL WALL Y	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	at at all of	N/A
Y.3	Resistance to corrosion	WILL MULT MULT MULT MINE	N/A
Y.3	Resistance to corrosion	at at let state	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	With My and Miles	N/A
Y.3.2	Test apparatus	IE WALL MULL AND A	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	L A B B B	N/A
Y.3.4	Test procedure:	WILL MULL MULL MULL	N/A
Y.3.5	Compliance	at at all de	N/A
Y.4	Gaskets	nutit and and and	N/A
Y.4.1	General	et let let liet	N/A
Y.4.2	Gasket tests	or me me in	N/A
Y.4.3	Tensile strength and elongation tests	Et TEX TEX TEXT	N/A
1	Alternative test methods	my my my an	N/A
Y.4.4	Compression test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A



Reference No.: WTF24D01009355Y Page 37 of 67

	EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict			
alle	The same of the sa	THE RITE OF WALL	The Min			
Y.4.5	Oil resistance	711 72	N/A			
Y.4.6	Securing means	ALTER MITE MALTE	N/A			
Y.5	Protection of equipment within an outdoor encl	osure	N/A			
Y.5.1	General	RITER WITE WALL W	N/A			
Y.5.2	Protection from moisture		N/A			
11/2	Relevant tests of IEC 60529 or Y.5.3:	THE WALL WALL THE	N/A			
Y.5.3	Water spray test	L & # #	N/A			
Y.5.4	Protection from plants and vermin	MULL MALL WALL	N/A			
Y.5.5	Protection from excessive dust	at at the	N/A			
Y.5.5.1	General	With Mrs. Mrs.	N/A			
Y.5.5.2	IP5X equipment	at tet tet	N/A			
Y.5.5.3	IP6X equipment	here were me in	N/A			
Y.6	Mechanical strength of enclosures	et tet tet al	N/A			
Y.6.1	General	Mr. Mr. Zu	N/A			
Y.6.2	Impact test:	TEN TEN LITER	N/A			



Reference No.: WTF24D01009355Y Page 38 of 67

J.	in.	Mr. Mr. A.	EN IEC 62368-1	He Me Me
	Clause	Requirement – Test	Result – Remark	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.

	CENELEC COMMON MODIFICATIONS (EN)	THE MILE WILL WELL WILL	Р
Whitek a	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P. Juni
nir vini	Add the following annexes:  Annex ZA (normative)Normative references to interr corresponding European publications	national publications with their	P
	Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	signations for flexible cords	
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
3.3.19.3	sound exposure, E  A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is Pa <sup>2</sup> s. $E = \int_{0}^{T} p(t)^{2} dt$	TEX MULTER MULTER WALTER	N/A



Reference No.: WTF24D01009355Y Page 39 of 67

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

Clause	Trequirement – rest	Mesuit – Memark	veruici
- Mr.	The The Telephone	the state of the s	7/11
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz threshold of hearing in humans.	united whited whited white	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	et tet itet stet	Will Mi
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	while while with	TE VINLIER
NITEH IN	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at let lift life	F WITE
3.3.19.5	digital signal level relative to full scale, dBFS	her the the th	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	TEX WHITEK WHITEK WHITEK	on trek wat
MINITER 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.	Whitek whitek whitek whi	EK WALTEK
2	Modification to Clause 10		N/A
10.6	0.6 Safeguards against acoustic energy sources		N/A
alex	Replace 10.6 of IEC 62368-1 with the following:		n an
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:	United white white white white	MILIER WA
	<ul> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and</li> <li>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.).</li> </ul>	Whitek	NO WALTER  WAL
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	t whilet whilet whilet w	LITE
	Personal music players shall comply with the		* 11



Reference No.: WTF24D01009355Y Page 40 of 67

EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
21/2	NOTE 1 Protection against acoustic energy sources from	EN VIET MULT MELL	2000 200
	telecom applications is referenced to ITU-T P.360.	1 1	LET LET
	NOTE 2 It is the intention of the Committee to allow the	SLIFE MLIE MALIE	mer mer
	alternative methods for now, but to only use the dose	24. 24. 2.	1 1
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	LET THE THE	LIE WILL OF
	possible.	Arra Mar. Mr. M.	7
	Listening devices sold separately shall comply	a st st s	et the
	with the requirements of 10.6.6.	The mile unit was	The The
	These requirements are valid for music or video	100	
	mode only.	TEX LIFE SLIP	White white
	The requirements do not apply to:	Mr. Mr. M.	20.
	- professional equipment;	I st set set	TEK TEK
	NOTE 3Professional equipment is equipment sold through	WILL WILL MULL A	We she
	special sales channels. All products sold through normal electronics stores are considered not to be professional	10. 4.	et et
	electronics stores are considered not to be professional equipment.	TEX ITEX STIES ON	The state of
	A CH TEN TEN LITER MILL WI	2 Mr. Mr. M.	
	<ul> <li>hearing aid equipment and other devices for assistive listening;</li> </ul>	t at at a	LU (L
	the following type of analogue personal music	in with white white	21/2 20,
	players:	1 1 x	LIK TEK
	• long distance radio receiver (for example, a	TER STEEL WITE	WILL WILL
	multiband radio receiver or world band radio	"Nu nu nu	
	receiver, an AM radio receiver), and	et TEX	LIER LIE .
	cassette player/recorder;	and an	2, 2,
	NOTE 4 This exemption has been allowed because this	# J	et let .
	technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be	THE LIP WILL WALL	in in
	extended to other technologies.	24. 20. 2	
	– a player while connected to an external amplifier	TEN TEN LIE	WILL WILL
	that does not allow the user to walk around while	The Me Me	10. 1
	in use.	the state of	TEK JEK
	For equipment that is alcorly designed or intended	CALIFE MALTE MALTE	Mer. Mer.
	For equipment that is clearly designed or intended primarily for use by children, the limits of the	20 20 1	et let
	relevant toy standards may apply.	TER LIER SLIER IN	الله الله الله
	At left test milit will wi	he we we we	
	The relevant requirements are given in	at at at a	ALL STEEL SOLL
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	with mer mer	24.
10.6.1.2	Non-ionizing radiation from radio frequencies	a state	N/A
21/20 2	in the range 0 to 300 GHz	WITE WILL WALL	Mr. Mr.
	The amount of non-ionizing radiation is regulated	20, 7, 1	at at
	by European Council Recommendation	TER STER STEE	PLI WILL
	1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic	the the in a	
	fields (0 Hz to 300 GHz).	at at at	TEN NITER IN
	For intentional radiators, ICNIRP guidelines should	The Mary Mary And	2/1, 2/1,
	be taken into account for Limiting Exposure to		+ 1 1
	Time-Varying Electric, Magnetic, and	et like site solie	WELL WILL
	Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is	14. 14. 14.	4
	drawn to EN 50360 and EN 50566.	the set of	The Car



Reference No.: WTF24D01009355Y Page 41 of 67

Lange Committee	Mr. Mr. Mr. M. M.	EN IEC 62368-1	MULLE MULL	ang.
Clause	Requirement – Test	Result – Remark	Ver	dict

10.6.2	Classification of devices without the capacity to	o estimate sound dose	N/A
0.6.2.1 W	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 $L_{Aeq,7}$ , 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 $L_{Aeq,7}$ ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, $T$ becomes the duration of the song.  NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$ ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an	Not such equipment	N/A N/A N/A
10.6.2.2  JEET WALTER  WALTER	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 per 10.6.3.2.	JUNITER WHITE WHIT	N/A  IN/A  I



Reference No.: WTF24D01009355Y Page 42 of 67

Clause	Requirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	West was all	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>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	JUNITER WHITE WHITER WHITER JUNITER WHITER WHITER	EX WILLEY WAS
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that	TEX TEX WITH	N/A
10.00	exceeds RS2 limits.	We My My	A 1/A
10.6.3	Classification of devices (new)	it of the said	N/A
10.6.3.1	General  Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new)	4, 4, 2,	N/A
Whitek wh	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.	UNLIER WHITER	LEX WILLEY WHITE W
10.6.3.3	RS2 limits (new)	MITE WILL MALIE	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player	Wifek Writek Writek	TIEK WILLEY

EN IEC 62368-1



Reference No.: WTF24D01009355Y Page 43 of 67

01	EN IEC 62368-1	20 20 20	
Clause	Requirement – Test	Result – Remark	Verdict
ar.	W W The State of	and the south of the	211
	with its listening device), and with a proprietary	70 7	14 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	connector between the player and its listening	LEK TEN TEN	Still allie
	device, or where the combination of player and	Will all the the	20
	listening device is known by other means such as	20	1 1th
	setting or automatic detection, the weekly sound	Let let the start it	Charles of
	exposure level, as described in EN 50332-3, shall	The state was the	20, 20,
	be ≤ 80 dB when playing the fixed "programme		t et e
	simulation noise" described in EN 50332-1.	LET THE STATE STATE	100
	- for equipment provided with a standardized	The The The	20,
	connector (for example, a 3,5 phone jack) that	1 1	11 12
	allows connection to a listening device for general	A LEK STEEL STEEL	The street
	use, the unweighted r.m.s. output level, integrated	The way was	20, 20,
	over one week, as described in EN50332-3, shall	1	J+ J+
	be ≤ 15 mV (analogue interface) or -30 dBFS	LEK TER LITER OF	Little Marie
	(digital interface) when playing the fixed	With My My My	
	"programme simulation noise" described in EN		et let
10.04	50332-1.	The tree termin	21/0
10.6.4	Requirements for maximum sound exposure	, 'm, 'm, ',	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum	24 24 25.	
	during tests.	1 1 1	Let Chi
	Management at all the manda independent with	LIER SLIPE WITH A	Ur. The
	Measurements shall be made in accordance with	94. 24. 25.	
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.		NI/A
10.6.4.2	Protection of persons	" " " " "	N/A
	Except as given below, protection requirements for		L et
	parts accessible to ordinary persons,	are the diffe	10 M
	instructed persons and skilled persons are	in the the	20, 20,
	given in 4.3.		.ot 20
	NOTE 1 Volume control is not considered a safeguard.	MITER WALTER WALTER	Murry Murry
	Between RS2 and an <b>ordinary person</b> , the <b>basic</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Let Let
	safeguard may be replaced by an instructional	THE LIFE STEP OF	The Wife.
	safeguard in accordance with Clause F.5, except	The The The Land	
	that the instructional safeguard shall be placed	1 1	Et LET
	on the equipment, or on the packaging, or in the	THE LITE OUT WIT	19/2 201
	instruction manual.	1 21 24 20 20	
	Alternatively, the instructional safeguard may be	1 1 1	- 18th S
	given through the equipment display during use.	THE STILL WITH WITH	me me
	A LET TEX STEX MIT WILL WILL	211, 21, 22,	
	The elements of the instructional safeguard		TE TE
	shall be as follows:	ALTE MILL MALL	11/2
	the the the the	24, 24, 2	1
	– element 1a: the symbol △᠀), IEC 60417-	at at alt	TER LIFE
	6044 (2011-01)	alite mili anti anni	1912. 1
	– element 2: "High sound pressure" or equivalent	31, 20, 21	d de
	wording	at at at	The same
		The Will Mary Mark	211 211
	element 3: "Hearing damage risk" or equivalent  wording	10 20	4
	wording	1 x 1 1 1	J. J
	= element 1: "Do not listen at high volume lovels		
	- element 4: "Do not listen at high volume levels	e alite walk walk	2/15
	element 4: "Do not listen at high volume levels for long periods." or equivalent wording	MUTTE MUTT MUTT	21/2 ZI



Reference No.: WTF24D01009355Y Page 44 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
"IL"	White the test of	LITE WITE WALL	The Me	
	of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary person</b> and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	JUNITER WHITER WHITER	UNLIEK WILLEK	
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	EX WALTER WALTER WALTER	WALTER WALTER	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.  NOTE 3 The 20 h listening time is the accumulative listening	TEX MATER MALTER WAL	SER WY TER W	
	time, independent of how often and how long the personal music player has been switched off.	MULTER WHITE WHITE	MULL MULL	
MULLEY W	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	MITER WALTER SINITER	MULLE MULLE	
10.6.5	Requirements for dose-based systems		N/A	
	General requirements  Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.  The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.  The personal music player shall be supplied with easy to understand explanation to the user of the	Not such equipment	N/A  EX UNITED SUBJECT	
10.6.5.2	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	Intitle whitek whitek whi	N/A	
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an	THE THE MITTER OF	WILLER WATER	



Reference No.: WTF24D01009355Y Page 45 of 67

- 27	EN IEC 62368-1	re all all all	72.
Clause	Requirement – Test	Result – Remark	Verdict
alle.	M W TEX ST	The water about	we we
	acknowledgement. In case the user does not	200	14 14 14 14 14 14 14 14 14 14 14 14 14 1
	acknowledge, the output level shall automatically decrease to compliance with class RS1.	THE STEE STEE	WILL WILL
	decrease to compliance with class NoT.	We are a	
	The warning shall at least clearly indicate that	a to the state of	CENT SERVE
	listening above 100 % <i>CSD</i> leads to the risk of	LIFET NITE INLIVE WAY	10 10
	hearing damage or loss.	20 20 20 20	
0.6.5.3	Exposure-based requirements	It Let LET JE	N/A
10	With only dose-based requirements, cause and	auti were mure	411. 20.
	effect could be far separated in time, defying the	4	20- 20
	purpose of educating users about safe listening	THE LITTER STATE	with white
	practice. In addition to dose-based requirements,	The The In	
	a PMP shall therefore also put a limit to the short-	at at at	TEX TEX
	term sound level a user can listen at.	WITE WITE WALL MI	in the
	The expecting based limiter (CL) shall	10, 20,	at at
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed	LET JET JET JE	The ST
	100 dB(A) or 150 mV integrated over the past 180	in we we	20 20
	s, based on methodology defined in EN 50332-3.		** ** **
	The EL settling time (time from starting level	ex life wife with	ave ave
	reduction to reaching target output) shall be 10 s	24, 24, 25,	
	or faster.	at at the	THE LITE
	Total of El. 6 mostly with the conducted and analysis and	WILL WILL WALL	20.
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For		A 15
	equipment provided as a package (player with its	LEE STEEL ON	The State of
	listening device), the level integrated over 180 s	- 1 In 20,	
	shall be 100 dB or lower. For equipment provided	4 1	t litt
	with a standardized connector, the unweighted	THE NAME OF STREET	m m
	level integrated over 180 s shall be no more than	70, 2, ,	
	150 mV for an analogue interface and no more	LE THE THE	Tile Will
	than -10 dBFS for a digital interface.	anti with whi	ing in
	NOTE In case the source is known not to be music (or test	1 x	et et
recorder	signal), the EL may be disabled.	THE STATE OF THE	Mr. Mr.
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	211 22	4.
	listening device, and with the volume and sound	A BY THE THE	TO THE WAY
	settings in the listening device (for example, built-	Were Mer and	21/2 22
	in volume level control, additional sound features like equalization, etc.) set to the combination of		18 AN
	positions that maximize the measured acoustic	TEX LIFE OLIVE	inlie when
	output, the input voltage of the listening device	The My My	
	when playing the fixed "programme simulation	A A A	TEX JEE
	noise" as described in EN 50332-1 shall be ≥ 75	SLIE MITE SIRLY WA	1/1/2
	mV.	10. 10.	+ 2+
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	et let let let	11/2 11
-20.	and 27 mV or 100 dB and 150 mV.	y mur mur m	20, 2,
10.6.6.2	Corded listening devices with digital input	t at at at	N/A
0.6.6.2		The state of the s	- CI
0.6.6.2	With any playing device playing the fixed	are are are	20.
0.6.6.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings	mer me m	it it



Reference No.: WTF24D01009355Y Page 46 of 67

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
all.	We have the state of	er lite hit with	The Marie	
antiek ani	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 $\leq 100$ dB with an input signal of - 10 dBFS.	unliet unliet unliet	united whited	
10.6.6.3	Cordless listening devices		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,   acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	JUNUTER JUNUTER JUNUTER	JUNE WILLER  JUNE WILLER  JEK JUNE WILLER  JUNE WILL  J	
10.6.6.4	Measurement method	White while while	N/A	
NITEH INV	Measurements shall be made in accordance with EN 50332-2 as applicable.	at Mark	LIFEK NITEK	
3	Modification to the whole document		Р	



Reference No.: WTF24D01009355Y Page 47 of 67

4V		Service of the servic	
L. Mer	7/1 7/2 X	EN IEC 62368-1	24/2 21/2
Clause	Requirement – Test	Result – Remark	Verdict

ele		ent is restricted w					- CE
V	dd the follow	ving note: e of certain substa	ances in electri	cal and			Р
М	odification	to Clause 1					Р
WELLE. W	2.			10° 18°		L	15° (1)
20,	Y.4.5	Note	9)			8	24,
y Wille	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NLTEX
"In			Table 39	ando			MULL
All St	8.5.4.2.3	Note	10.2.1	Note 3 and 4 and 5	10.5.3	Note 2	£ 3
untill and						Note 2	Z ZUN
20,	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and	4
CLIEK	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	CIEN
MUL	5.4.10.2.1	Note	5.4.10.2.2	Note	5,4,10,2,3	Note	- Mrt.
et Let	Table 13						
STEE ALL	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	E WILL
20, 20	F.4855		Table 12	N			40
ALTEK V	5.2.2.2	Note	5.4.2.3.2.2	Note c	5.4.2.3.2.4	Note 1 and 3	CIENT I
Mur.	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	New .
t 26+	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	LEX.



Reference No.: WTF24D01009355Y Page 48 of 67

EN IEC 62368-1				
Clause	Requirement – Test	The Marie All Mr.	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
antiek white white whitek whit	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	mains mains	SUPLIFIES OF THE SUPLIF
c white	providing protection in accordance with the rating of the wall socket outlet.	te stile with wife we	NIA
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



Ρ

Reference No.: WTF24D01009355Y Page 49 of 67

20,	EN IEC 62368-1	the west with the	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
2/1/2	MI MY THE STA	the with white all the	The The
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:  In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	JUNITER WHITER	N/A
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.  The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	UNLIER WHITER WHITER WAS	neter white w
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	Whitek Whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of	it with while will	EX WATER WATER
9	13 May 1996.  Modification to G.7.1		N/A
			- L
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	UNLIES WALTER WALTER	N/A

**Modification to Bibliography** 

10



Reference No.: WTF24D01009355Y Page 50 of 67

The Maria	My My All	EN IEC 62368-1	TEX INTIES WHITE WA	Tip Maria Maria
Clause	Requirement – Test	Net Alex Mi A	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.: WTF24D01009355Y Page 51 of 67

1101010110011	10:: 11:11 Z 1B 0 10 00 00 0	1 age 61 61 61			$\sim$
" " "		EN IEC 62368-1			
Clause	Requirement – Test	The Mary All May	Result – Remark	.e.t .c.	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	White
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	street waters waters waters	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	es unite unite unit u	ne was
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult mi	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	united white white white	JUNE .
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	511 EX
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	MITEL WILL MILLER WILL	EK MUTIEK
	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	MULTER MILIER	Whitek o
	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	ing murit
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WALTER WALTER WALTER	White w
	and white white white white white	at the the there	NI EK NIVÎ
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULES WILLES WAS	IEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	WILLER MUTTER MUTTER MUTTER	- JALTEK V
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	un'il un' LIFX unlif
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	TELY STEEL STEEL SOLE	EX WILLEX



Reference No.: WTF24D01009355Y Page 52 of 67

20,	EN IEC 62368-1	in the way and	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
"he"	of the state of	alte mit whi	The Me
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STIFE STIFF OF	NITEX MAITEX
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	nites whites whites whi	TEK WITER
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 writer writer write	white wh
5.5.2.1	Norway	TEX TEX LIER	N/A
	After the 3rd paragraph the following is added:	Mur Aur Aur	or tex
ALEX AL	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILLER MILLER MALLER MA	er let
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	et street mires sources	WALLEY WAL
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	Whitek Muriek Muriek	INLIER WINLIE
5.6.1	Denmark	No such equipment.	N/A
iek whire k whitek	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	unite unit
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WILLER WILLER W	NITE MALL
5.6.4.2.1	Ireland and United Kingdom	at at at a	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:	itte mit met me	- 71 - 71
	<ul> <li>the protective current rating is taken to be 13</li> <li>this being the largest rating of fuse used in the mains plug.</li> </ul>	AND THE WALTER WALTER	MUT, MU
5.6.4.2.1	France	TEN JEE STEE	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	Mires Mirites Mirites An	TEK MITEK
5.6.5.1	To the second paragraph the following is added:	The wife with whi	N/A
MULTER	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	A MULTER WALTER	Mrit Auri



Reference No.: WTF24D01009355Y Page 53 of 67

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

ale.	THE THE THE	THE WALL WALL WALL	20,
5.6.8	Norway	10 to 15	P⊢
	To the end of the subclause the following is added:	uniter white white white	whi. <
	Equipment connected with an earthed mains plug is classified as class I equipment. See the	LIET NIET WIFET WHITEK	ALTER WA
ek unlie	Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	et tet tet mitet mi	EK WALT
5.7.6	Denmark	The An An	Р
	To the end of the subclause the following is added:	WALTER WALTER WALTER WALTE	WILLE
Mriter an	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Miles Maries Maries,	MULTER W
5.7.6.2	Denmark	TEX STEEL STEEL STATES STATES IN	P
	To the end of the subclause the following is added:	t it it it is	EX SLIEN
MA	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	white mit with whi	W. CIEK
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added:	it itel sitely	NITEK NA
	The screen of the television distribution system is normally not earthed at the entrance of the	2 41 20 2	
	building and there is normally no equipotential	the the state of	ie Will
	bonding system within the building.	Mur Mr. Mr. M.	
	Therefore the protective earthing of the building installation needs to be isolated from the screen of	- SLIEK NATER WALTER WALTE	WALTER
	a cable distribution system.	The The Table	et-
	It is however accepted to provide the insulation	LIER SLIER WILLER WALLE	White a
	external to the equipment by an adapter or an	m m m	*
	interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	LIEK WALTER WALTER WALTER W	erie ani
	The user manual shall then have the following or	at the first of	EK OLTE
	similar information in Norwegian and Swedish language respectively, depending on in what	with mer me me	-21,
	country the equipment is intended to be used in:	TEX STEX STEX INTER	MALTER
	"Apparatus connected to the protective earthing of the building installation through the mains	mur mur mr m	- 10th
	connection or through other apparatus with a	STEEL STEEL WITER WITER	William M
	connection to protective earthing –	he me in m	
	and to a television distribution system using coaxial cable, may in some circumstances create	ER TEX LIER NITER IN	The Will
	a fire hazard. Connection to a television	in the many	
	distribution system therefore has to be provided	t at let det di	CLIER
	through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	Muri Muri Muri Muri	711 TEX
	NOTE In Norway, due to regulation for CATV-installations, and	WILL MILL MILL WALL	Mr. 1



Reference No.: WTF24D01009355Y Page 54 of 67

EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
in the same	Mr. All All Mr.	LIE NITER WILL WA	100		
WALTER WA	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.	TITEL WILEY WILEY WHITE	Y WILLER OF		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sure whitek whitek whitek	WALTER WAL		
	"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	et whitet whitet whitet w	STEEL WALTE		
	apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	at let let let	NATEK OF		
un united est united est united	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."	MULTER WALTER WALTER WALTER	un itek vunit itek vunitek ik itek		
8.5.4.2.3	United Kingdom	No external circuits.	N/A		
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	united united	WALTER WA		
	required where there is a risk of personal injury.	11/2 M. W. 1			
B.3.1 and B.4	Ireland and United Kingdom 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	Not directly connected to the mains	N/A		
G.4.2	Denmark  To the end of the subclause the following is added:  Supply cords of single phase appliances boying a	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.	TEX MUTEX MUTEX WHITE O	in the liex		
whitek w	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	White while while whi	K WATTER ON		



Reference No.: WTF24D01009355Y Page 55 of 67

20	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
2/1/5	THE THE THE THE	the little with the way	40.
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* LEX
	with standard sneet DK 2-1a of DK 2-3a.	THE STILL MITE WALL	Mer
	If a single-phase equipment having a RATED	The My In	
	CURRENT exceeding 13 A or if a polyphase	LET LET LIEB LIEB	WITE M
	equipment is provided with a supply cord with a	LLIE WALL WALL WALL	20, 20,
	plug, this plug shall be in accordance with the	t t	10 1
	standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	ex writer maiter maite m	ic. wer
	Mains socket outlets intended for providing power	at at at at	E JEK
	to Class II apparatus with a rated current of 2,5 A	alifer while while while	The same
	shall be in accordance DS 60884-2-D1:2011	70, 20,	
	standard sheet DKA 1-4a.	LIEK SLIEK WLIEK WALTER	MILITE
	Other current rating socket outlets shall be in	14. 14.	24
	compliance with Standard Sheet DKA 1-3a	let tex tree with	Will at
	or DKA 1-1c.	in my my	0
	Mains socket-outlets with earth shall be in	at left left light is	ITER ISLIE
	compliance with DS 60884-2-D1:2011	and we we	-20.
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-		y the
	5a or DK 1-7a	LIER OLIFER MALTE MALT	MUST
	Justification:	4 4	t
	Heavy Current Regulations, Section 6c	ALL STEEL MITTER	WALLE A
G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is	mains	W. W.
	added:	The The The The	
	The plug part of direct plug-in equipment shall be	L ALL ART SELL SELL SE	TE CITE
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,	WILL WHEN WAY WAY	-7.0
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17,	4 4 1	t let
	except that the test of 12.17 is performed at not	THE STIFF OF THE MALL	WELL.
	less than 125 °C. Where the metal earth pin is	74 24 24 24 24 25.	
	replaced by an Insulated Shutter Opening Device	at at let let	LIET C
	(ISOD), the requirements of clauses 22.2 and 23 also apply.	crit with whi with	27, 20,
G.7.1	United Kingdom	e at at at	N/A
	To the first paragraph the following is added:	Murit mury mury and	7,11
	Equipment which is fitted with a flexible cable or	t get get get g	E JALTE
	cord and is designed to be connected to a mains	MILL MILL MILL WILL	20
	socket conforming to BS 1363 by means of that	the state of	THE STATE OF THE S
	flexible cable or cord shall be fitted with a	LIER SLIER OLIVE MALTE	11/1/1
	'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory	1 24 24 24 24 24 24 24 24 24 24 24 24 24	
	Instrument 1994 No. 1768, unless exempted by	at let let let	~ IE . (c)
	those regulations.	The Will Mill Aug 1	1, 20,
	NOTE "Standard plug" is defined in SI 1768:1994 and	1 + st st	15th 56
	essentially means an approved plug conforming to BS 1363 or	e alife with whi	Me
	an approved conversion plug.	11. 10. 1.	



Reference N	No.: WTF24D01009355Y	Page 56 of 67		At 10 50
in the	241 - 151 - 2	EN IEC 62368-1	TER INCTE WALL WAS	" " " " " " " " " " " " " " " " " " "
Clause	Requirement – Test	The Maria All And	Result – Remark	Verdict

G.7.1	Ireland	70 70	N/A	
	To the first paragraph the following is added:	NITER MITER WALTER WALTER		
	Apparatus which is fitted with a flexible cable or	an at at att		
	cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs	elifer militir malik wali w		
	and Conversion Adapters for Domestic Use			
	Regulations: 1997. S.I. 525 provides for the	ER OLIFER WILLE MALL WAL		
	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	In the state of		
G.7.2	Ireland and United Kingdom	STILL WILL MILL AND	N/A	
	To the first paragraph the following is added:	an at the		
	A power supply cord with a conductor of 1,25 mm <sup>2</sup>	WILL WILL MUST AND THE MUST SHOW IN THE STATE OF THE STAT		
	is allowed for equipment which is rated over 10 A			
zc	and up to and including 13 A.  ANNEX ZC, NATIONAL DEVIATIONS (EN)			
<del>ان با</del>				
10.5.2	Germany	No CRT within the equipment.	N/A	
	The following requirement applies:	m m		
	For the operation of any cathode ray tube intended	TEX STEX STEEL WITE		
	for the display of visual images operating at an	mer my m		
	acceleration voltage exceeding 40 kV, authorization is required, or application of type	At The State of the		
	approval (Bauartzulassung) and marking.	A Mari Mar A		
	Justification:	E. The Link of the 10		
	German ministerial decree against ionizing	me me m		
	radiation (Röntgenverordnung), in force since	- at let let lie		
	2002-07-01, implementing the European Directive 96/29/EURATOM.	White must must make		
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	UNLIEK WALTER WALTER WALTER		
	Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de			



Reference No.: WTF24D01009355Y Page 57 of 67

c. Mr.	The state of the s	EN IEC 62368-1	They the
Clause	Requirement – Test	Result – Remark	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	\$	*/·
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	d 60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords	d	H05Z1Z1-F H05Z1Z1H2-



Reference No.: WTF24D01009355Y Page 58 of 67

Ġ	The All All All	EN IEC 62368-1	TER WITE WALLE W	in an	. du
	Clause Requirement – Test	Mur. Mr. m.	Result – Remark	et d	Verdict

5.2	TABLE: Classification	on of electrical er	nergy source	es		4 14	N/A
Supply Voltage	Location (e.g.	Test conditions Parameters		·	ES		
	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
12Vdc	The EUT is	Normal	<60Vdc	n -n	SS	DC	ES1
	designed to be supplied by Type -C port	Abnormal	Jak .	TER WITE	JALII L	Vice Aller	
		Single fault – SC/OC	71 To	of the	STEK- IN	EX -TEX	
4.20Vdc	The EUT is	Normal	<60Vdc	1/15 21	SS	DC	ES1
	designed to be supplied by	Abnormal	CENT CENT	ilies inti	1 17 LIV	White all	
	Internal Li-ion battery cells	Single fault –	770	70 - 70 70 - 70	- TEK	alien mi	

## 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

5.4.1.8	TABLE: Working	voltage measur	rement			N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	3
- WITE W	VII ME M	14/-	± <del>1</del> x+	et th	LIEK ALTER TALTE	WILL
- *	et det de	- atiest and	with we	m. m		<i>*</i>
Supplement	ary information:					
- A	t let let	LIER MITE	Wer Aug	24, 24	70	A.

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method	:	ISO 306 / B50	miter uni —		
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)		
-Weight mer mer mer	40 -t 1t 16	t TEL OUTER OF	LIE WILL - WILL		
Supplementary information:					
Will The Mr. Mr.	The state of the	THE STEP AS	The water with		

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

Page 59 of 67 Reference No.: WTF24D01009355Y

	EN IEC 62368-1								
Clause	Requiremen	t – Test	ance in		Result	– Remark	et	Verdict	
"AL"	4, 4,		A 4	6th 55	· .J	S. S. S. S.	12° (1)	10	
- #		TIER WITE	WELL MU	-20,-	20.	_	4	et - 18t	
Suppleme	ntary informatio	n:							
.+	CENT TEXT	THE STEE ST	IT WILL	2,11	20,	7	اد ب	- Jet .	

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
INLTE WALL WALL WALL	4/1	20	1	-z+	KIL.	56t	EK TILLE	Mrite.

Supplementary information:

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

5.4.4.2	TABLE: Minimum	distance through insul	lation	MULT WILL	N/A
Distance through insulation (DTI) at/of		Peak voltage (V) Insulation*		Required DTI (mm)	Measured DTI (mm)
	SER SER SE	WILL WILL MAN	141 - 251		et - et
Supplemen	tary information:				
*See also s	ub-clause 5.4.4.9	A JUNE OF			et let i

5.4.4.9 TABLE: Solid in	sulation at	frequencies	>30 kHz			N/A
Insulation material	<b>E</b> P	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
WILL MULL AND AND	- Mr.	- 4	# 11	-TEK TE	- NITER OF	CE MALTE
Supplementary information:						
WILL WILL WALL MAN	24	, ,,,,,,,,		CENT SEPT	JEE RE	and a

5.4.9 TABLE: Electric st	rength tests	TEN STEN ST	N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	Will My Mr M. M.		LEF LEF
-any any any any	A TEN ITEN STIER INTE	- write white	Vr. 170, 1
Basic/supplementary:	WALLE WALL WALL THE WALL		CENT STEP N
Tr. M. M.	of the the street wife	Write Mure And	2115
Reinforced:	the me the the	A 15 16	t set sie
- 44	the state of the patient applied to	TI ME MUT	~11 ~11.
Routine Tests:	Mr. M. M. A.	at at at	LIFE SLIER
N' - X A	TEK NITE INITE WALLE WAS	- no m	21, 7,
Supplementary information:			



Page 60 of 67 Reference No.: WTF24D01009355Y

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

5.5.2.2	5.5.2.2 TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class	
m -	111.		Normal	TER WATE	Inti Anti.	m -m	
NALTER T	nliek w	TEN WILLE WHILE	Single fault: SC/ OC	t ster s	JEK TEK NI	LIEK -LIEK	

X-capacitors installed for testing are:
[] bleeding resistor rating:
[] ICX: 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6 TAE	6.6 TABLE: Resistance of protective conductors and terminations							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
7, ,		- <u>1884 NOU</u>	1612 - 1917 1	L 71 21	-			
Supplementary ir	nformation:			,				
	Y A Y // ¿A	TE MILL	70. 7	14 20 m	- L			

5.7.4	TABLI	E: Unearthed acces	ssible parts	WITE WALL W	Ur. Aug. M	20	N/A
Location	•	Operating and	Supply		Parameters		ES class
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	
L/N to seco	ndary	Normal	J₹ K	- 17 <sup>62</sup> -17 <sup>63</sup>	THE WALTE	" In	111 - 111
terminals		Abnormal: overload	Mury - Mur	The Tex	iter aiter	WITE W	LIEY WAL
		Single fault: SC/ OC	LIER WALL	nur -nu -	in in	TEK C	EK - OLIFEK
Supplemen	tary info	rmation:					

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	sible conductive part	Di Co	at at	N/A
Supply volta	age (V)	- BY JEH JEH	LIFE OLIVER N	ULL WALL OF	_
Phase(s)		[] Single Phase; [] Three	Phase: [ ] Delta	[] Wye	
Power Distr	ibution System	[] TN [] TT [] IT	Elt STEE INT	it while whe	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt
- 20, 0	a sk sk s	ex alter mit unit	mr mr	24, 24,	4.
Supplemen	tary Information:				
21, 20,		· If all all and a	UNITY WILL	me me	10 - 20



Reference No.: WTF24D01009355Y Page 61 of 67

Ġ	C. MUT.	Mist him the the	EN IEC 62368-1	IE MIE WALLE WALLE	ancis and
	Clause	Requirement – Test	Vr. 211. 20	Result – Remark	Verdict

5.8	TABLE: Backfeed safeguard in battery backed up supplies						
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Tile with	Mer	21/2 21/	- A	A S	EX STEEL OF	Lie White	Mers - Mes
Supplemen	Supplementary information:						
	ar.	an an	-	et et	- All (1		ner are

6.2.2 TAI	BLE: Power source	circuit classifi	cations	TEX JE	NITE IN	P̈́
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Battery circuit	Output pin + to -	3.5	6.365	22.28	5S	PS2
Battery circuit	Signal fault (U1 SC)	TEL O TEL	MITTED MITTER	un O un	3S	PS1
Battery circuit	Signal fault (NTC OC)	0	0 50	net 0 met	38	PS1
Output	Output pin + to -	11.88	1.95	23.17	5S	PS2
Output	Signal fault (U1 SC)	+ 0+ no	er "0.er "11	0	3S	PS1
Output	Signal fault (NTC OC)	O LIE	<sub>(0</sub> 0	0	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: Determ	ination of Arcing PIS	LIE WHILL WALL	m. m.	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
-et 5	E LIFE RUTER	WILL MALL MU	20, 70,	A	ik .7 <del>4</del> 1 .0
Supplemen	tary information:				
* 4	All All	The Will Mr.	24, 20, 1		- 14 18

6.2.3.2 TABLE: Determination of resistive PIS							
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No			
All primary circuits/comp	onents	WALLER THE THE	NITER INITER WAITER WA	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



Reference No.: WTF24D01009355Y Page 62 of 67

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

30 s after introduction of the fault.

8.5.5	TABLE: High pre	essure lamp	ik while when	Mer and a	h.	N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		ticle found nd 1 m Yes / No
in alle	240 24 2	- 4 4	TEK STEK MIT	WALTE WALT	all of	- 24
Supplement	tary information:					
alle al	L 24 2		THE JUST STEE	WITE WILL	aler.	7112 7

9.6	TABI	E: Temperat	ure measure	ments fo	r wireless	power tra	ansmitters	WALTE	N/A
Supply volta	age (V	)		.:	21/2 21		t		_
Max. transn	nit pov	ver of transmi	tter (W)	: 4	LIFE . NI	ER WIT	WILLE	Whi.	_
		,	er and direct stact		eiver and contact	at dista	eiver and ince of 2 nm		eiver and at e of 5 mm
Foreign ob	jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
TEX JE			11/2	2			1 1	- CEE	LITER ONLY
12. 21.			4° 4°	CLIER	LLTE .		Court.	in.	21, 2
TEN RUTER	10.			600				JEK.	LIFE MITE
Supplement	tary int	formation:							
CLITER OF	REFE	White whe	Wille 1		.L .X	, et	Tit.	JEH J	Er Wile

5.4.1.4, 9.3, B.1.5, B.2.6									
Supply voltage (V)	Condition 1	Condition 2	TEK-WAL	EK WILLER	_				
Ambient temperature during test $T_{amb}$	(°C):	See below	See below	# W	764	_			
Maximum measured temperature T or			Allowed T <sub>max</sub> (°C)						
PCB near U3	43.1	68.3	NETTE S	m <sup>lit</sup> m	130				
PCB near U1 and L1	57.7	99.6	, W	.d+de	130				
Battery	, let	37.0	53.7	hri - an	-41/1/	Ref.			
Battery wire	m.	45.2	70.3	J+ J	* - CE*	80			
Wooden shell inside	33.6	43.5	100	2/12	Ref.				
Skin shell inside	11. 21.	32.7	39.8		Cart.	Ref.			
Wooden shell outside	EK WIT	29.9	33.1	11/2	111 - 11	107			
Skin shell outside		32.5	39.1	, delib	15 El- 101	Ref.			



Reference No.: WTF24D01009355Y Page 63 of 67

EN IEC 62368-1						
	Clause	Requirement – Test	Vr. 211. 20	Result – Remark	Verdict	

Ambient	TER ALT	antile .	25.0	25.0			# -#
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
TER OLIF WILL WAL	10,	200- 21		L 0	- 75	JEK JUE	" NITE" SINIT

### Supplementary information:

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

Condition 1: For power bank only charge with internal empty battery.

Condition 2: For power bank only discharge with internal fully battery.(load 12Vdc, 1.66A)

B.2.5	TA	ABLE: Inp	out test					THE THE THE THE POST
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Conditio	1: O	nly charg	e with inter	nal empty	battery (f	or powe	r bank)	The Maria Maria Maria
5Vdc	-5°	1.25	10 11 1 1	5.25	7,			Battery charge current: 3.8A
Conditio	n 2: O	nly discha	arge with in	ternal full	y battery (	for powe	er bank)	mr. m. m. m.
4.2Vdc	(J <u>4</u> )	5.1	ni - 1	21.42	2	,	-7-	Battery discharge current: 5.1A
Supplem	entary	y informat	ion:					
The max	imum	measured	d current ur	der rated	voltage di	d not ex	ceed 110	)% of the rated current.

B.3, B.4	TABLE: Abnor	mal operatin	g and fau	It condit	ion tes	sts	L of let s	P. P.
Ambient tei	mperature T <sub>amb</sub> (°	°C)			:	See b	pelow	_
Power sour	rce for EUT: Man	ufacturer, mo	del/type,	outputrati	ng :	,+	TEK TEK TIE	
Componer No.	nt Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	า
Condition 1	: Only charge wi	th internal em	pty batter	y de	تامار	. ur	the Mer war a	11. 20.
U1	S-C	5Vdc <sup>1)</sup>	7hrs	MULTER.	JALTER	WALT	Unit shut down immed damage, no hazard. Recoverable.	iately. No
NTC	0-C	5Vdc <sup>1)</sup>	7hrs	ALTER VI	TEN V	INLIEK	Unit shut down immediately. Repeat 3 times No damage, no hazard. Recoverable.	
Condition 2	2: Only discharge	with internal	fully batte	ry	et n	LIER .	MITE WALL WALL	are a
TEX U1.EX	S-C	4.20 Vdc <sup>2)</sup>	7hrs	- <u>w</u>	White White	Unit shut down immed damage, no hazard. Recoverable.		iately. No
R8	S-C	4.20Vdc <sup>2)</sup>	7hrs	unliek v	ALTEK	WALTE	Unit shut down immed damage, no hazard. Recoverable.	iately. No
Output	s-c	4.20Vdc <sup>2)</sup>	10mins	18t-	JE*	Liek	Unit shut down immed	iately. No

<sup>\*</sup> 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 25°C.



Recoverable. No damaged, no hazard.

Unit shutdown immediately.
Recoverable. No damaged, no hazard.

Reference No.: WTF24D01009355Y Page 64 of 67

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

LIEK DIEK MITEK MALTER MALTER MALTER MALTER MALTER	damage, no hazard. Recoverable.
--	------------------------------------

#### Supplementary information:

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

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

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

M.3	TABLE: Pr	otection circu	its for batteri	es provid	ed withi	n the eq	uipment	JI P	
Is it possible	to install the	battery in a re	verse polarity	position?	:	.4	# At	_	
				С	harging				
Equipment S	Specification		Voltage (V)			Current (A)			
		See pages 2 rating				See pages 2 rating			
				Battery	/ specific	ation			
Non-rechargeable batteries					Re	Rechargeable batteries			
Dischar			Unintentional	(	Charging		Discharging	Reverse	
Manufact	urer/type	current (A)	charging current (A)	Voltage	(V) Cu	rrent (A)	current (A)	charging current (A	
Shenzhen Baijiaying Technology Co.,Ltd. / BJY 503035		WILER WITER	unitiet uni	See B.2	2.5 Se	ee B.2.5	10 M	at state	
Note: The te	sts of M.3.2 a	re applicable o	only when abov	e appropr	iate data	is not av	ailable.		
Specified ba	ttery tempera	ature (°C)	711		:	.e.+	10-45		
Component No.	Fault condition	Charge/ discharge mo	Test time	Temp. (°C)	Current (A)	t Voltag (V)	e Obs	ervation	
U1	SC	Charge	7h	LIEK-WI	0.001	4.20	Unit shutd		

#### Supplementary information:

SC

Discharge

R8

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.

0.001

4.20

7h



Page 65 of 67 Reference No.: WTF24D01009355Y

Ġ	C. MUT.	Mist him the the	EN IEC 62368-1	IE MIE WALLE WALLE	ancis and
	Clause	Requirement – Test	Vr. 211. 20	Result – Remark	Verdict

	ABLE: attery	Charging saf	eguards for	equipment c	onta	aining a se	econdary lithium	PA	
Maximum spe	ecified c	harging voltag	e (V)		ان	4.2	70, 10,	_	
Maximum spe	ecified c	charging currer	nt (A)	· · · · · · · · · · · · · · · · · · ·	: <sub>2</sub>	8	CLIEF WILLE		
Highest specified charging temperature (°C)									
Lowest specit	fied cha	rging temperat	ture (°C)		;6	10	INLIE WILLE WIT		
Battery manufacturer/type		Operating	Measurement				Observation		
		and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)			
Lowest specif	ied chai	rging temperati	ure: 10°C	et et		TEX TE	RUIE MILE	W. J	
Shenzhen Baijiaying Technology C		Normal	4.20	0.5A	ter	Battery mperature: 10°C	The battery charging decreases	ng curren	
/ BJY 503035	LIEN	Abnormal-	mer - me	20, 1		<sub>A</sub>	-et 18t 5	et life	
		Single fault –	A A	nti <del>lle</del> int	300	WILL OF	E me m	20	
Highest speci	fied cha	rging temperat	ure: 45°C	70.	L	ot a	EX TEX TEX	CLIEF	
Shenzhen Baijiaying Technology Co.,Ltd	co Ltd	Normal	4.20	0.001A	ter	Battery mperature: 45.0°C	The battery chargir stop charging	ng circuit	
Technology C						- N			
		Abnormal-	JZ 10	8			- L 14		

## Supplementary information:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)										
Output	Condition	11 00	Time 2 (2)	I <sub>sc</sub> (A)		S (VA)					
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit				
20,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Let Ji	A CALLER	WILL WAS	. Mr.	211, 211	73,				
STEK C	o TET WALTE WALTE	NE ALL	4	A	- /EX	JEK JE	NITER.				
	" a state	LEY STEP	WITE OF	TI WELL	2015	L. 70	73,				
Suppleme	ntary Information:										

T.2, T.3, T.4, T.5	TABLE: S	teady force te	strik	ier mi	ile Muri	Mer Mer All All	N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	



Reference No.: WTF24D01009355Y Page 66 of 67

			EN IEC	62368-	1.		
Clause	Requirement – Test	Result – Remark		Verdict			
Mis	24, 24, 24,		L A	Et S	EF JE	COLUMN TOUR	The Me
_t	TEX JEX JER .	NITE MILITE	21/2	" ne	79		
Where M	r 24 24 2		J+		- CE	WITE WILLE	White Mile W
at a	EN STEN STEEL WE	ie wite	in co	ah.	20,	7 V+	at at a
VICE ALLE	14, 1, 1,	L At	, cit	CIEN	CLIE M	LITE NALTE W	Les are any
Suppleme	ntary information:		'				
*Test was	performed on product wit	h each sourc	e listed	in table	4.1.2.	White whi	in in
- ,61 <sup>k</sup>	THE LIET STEEL	WILL WILL	100	- 24		- L A	- LEN TEN
T.6, T.9	TABLE: Impact test						N/A

T.6, T.9	ABLE: Impa	ct test		N/A					N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation					
	Jest 1	* ITEK LIFE	WILL M	T. 116	2/11.	- To-		ر ،	L .c
cie mir	ine and	211, 211,		Et JEt	JEK	. LIEF	MITE	METE	MULL
at at	LEK JEK	LIEN CLIEB	WILLE ME	200	an.	20,	.4.	_*	LEN-
Supplementary	y information								
*Test was perf	ormed on pro	oduct with each so	urce listed in	table 4.1.2.			.4.	<u>بر</u>	a like

Т.7 Т	ABLE: Drop	test		N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
EK OLIE.	12 21			A THE THE STIFF ON THE SINE
	24 .CH	TEX SEX	inline white	MULL MULL MILL AND THE THE
WITE WY	in whi	Mr. Mr.	+ +	LEK TEK STEK NITER WITE MINIT
Supplementar	y information	:		

T.8 TA	ABLE: Stress	s relief test	- V.	at at	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
THE IS	the Citety .	NITER MAILE ON	11	411 1	a state of the state
Supplementary	information:				
*Test was perfo	ormed on pro	duct with each sou	ırce listed in t	able 4.1.2.	

X TABLE: Alternative method for determining minimum clearances distances N/A								
	nce distanced etween:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)				
- mil	mer mer m	- 4	x 16x - 16x 110	CLIFE SINCIPLE SURLEY				
Supplement	tary information:							
WILL WIL	ir mr m	An A Cot	LET LET LIET	WILL WILL WALL M				



Page 67 of 67 Reference No.: WTF24D01009355Y

Ġ	C. MUT.	Mist him the the	EN IEC 62368-1	IE MIE WALLE WALLE	ancis and
	Clause	Requirement – Test	Vr. 211. 20	Result – Remark	Verdict

4.1.2	TABLE: Critical components information				Jr Pr
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
NTC JAN	SHENZHEN YUETAIDA TECHNOLOGY CO., LTD	104F-4250-60L	R25=100KΩ±1%, B25/50=3950K±1%	EN IEC 62368-1	Test with appliance
Fire barriers near battery cell	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A (b)	V-0, 130°C	UL 510A	UL E246950
PCB WELL	Shenzhen Hecheng Fast Electronic Technology Co Ltd	1,1a	V-0, 130°C	UL 796	UL E159194
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	ÜL
Wood enclosure	Interchangeable	Interchangeabl e	Thickness: 3.66mm	EN IEC 62368-1	Test with appliance
Plastic enclosure	Interchangeable	Interchangeabl e	Min. V-1, min. 80°C, min. thickness: 0.4mm	UL 94	UL sine si
Battery lead wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 26AWG, VW-1	UL 758	UL
Internal Li- ion Cell	Shenzhen Baijiaying Technology Co.,Ltd.	BJY 503035	3.7V, 500mAh	IEC 62133-2: 2017	Report no.: ZKS2203007 89-1

Supplementary information:

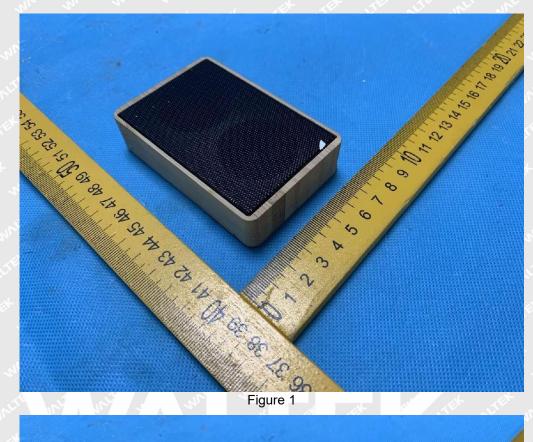
1) License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



## Page 1 of 3

## **Photo Documentation**

Reference No.: WTF24D01009355Y







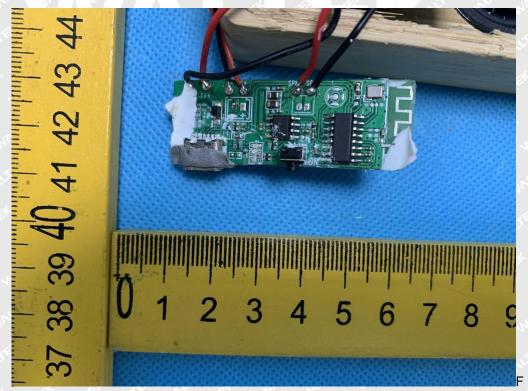
## Page 2 of 3

## **Photo Documentation**

Reference No.: WTF24D01009355Y



igure 3



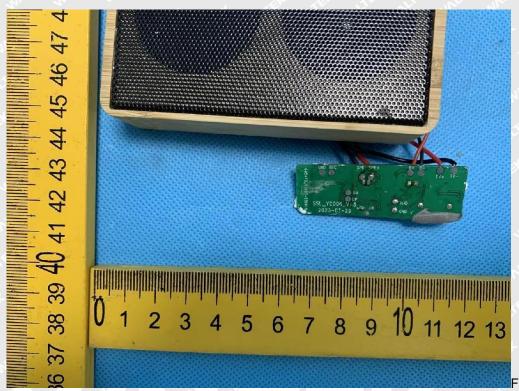
igure 4



Page 3 of 3

# **Photo Documentation**

Reference No.: WTF24D01009355Y



igure 5

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