



TEST REPORT

Reference No	: .	WTF24D05104161R1Y
Applicant	1/1/2	Mid Ocean Brands B V

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Address.....

Hong Kong

Manufacturer..... 117486

Address.....

Wireless multi 4 in 1 speaker Product.....::

Model(s)..... MO2378

Total pages.....: 65 pages and 5 pages of photo.

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample.....: 2024-05-13

Date of Test..... 2024-05-13 to 2024-07-05

Date of Issue.....: 2024-07-08

Test Result.....: **Pass**

Remarks:

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

Prepared By:

Waltek Testing Group Co., Ltd.

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

Compiled by:

Approved by:

Jason Huang / Project Engineer

Jason . Huany

Almon Zhao / Designated Reviewer



Reference No.:WTF24D05104161R1Y

Page 2 of 65

Test item description	Wireless mult	i 4 in 1 speaker
Trademark:	МОВ	
Model and/or type reference:	MO2378	
Rating(s)::	Input: DC 9V	out power: 15W Max 3A, 5V 3A V 1A, 7.5V 1A 9V 1.1A, 9V 1.67A
Remark:	et et	WITE WILL MULL MULL WAS THE TOP
Whether parts of tests for the product ha	ave been subco	ontracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lab	information:	
Test items:		
Lab information:	where our	w w
Summary of testing:		
Tests performed (name of test and te	- N	Testing location:
- EN IEC 62368-1:2020+A11:2020 All approximately The submitted samples were found to correquirements of above specification.		No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
EU Group Differences ☑ The product fulfils the requirements of 1:2020+A11:2020.	of EN IEC 6236	68-1:2020+A11:2020 and BS EN IEC 62368-
Use of uncertainty of measurement for	or decisions o	n conformity (decision rule) :
No decision rule is specified by the applicable limit according to the specific to the specific applicable. No decision rule is specified by the applicable limit according to the specific applicable.	ne IEC standar cation in that st	rd, when comparing the measurement result with the andard. The decisions on conformity are made without ptance" decision rule, previously known as "accuracy
Other: (to be specified, for example requirements apply)	e when require	d by the standard or client, or if national accreditation
OD-5014 for test equipment and applic IECEE.	calculated by teation of test m	the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
decision rule when reporting test results uncertainty for measurements is not nec	s within IECEE cessary unless	of measurement uncertainty principles and applying the scheme, noting that the reporting of the measurement required by the test standard or customer.
Calculations leading to the reported value	ues are on file	with the NCB and testing laboratory that conducted the

testing.



Copy of marking plate:

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

MOB / MO2378
PO BOX 644
6710 BP (NL)
Made in China
PO 41-114232

RoHS E

Frequency range: 2402-2480MHz
Maximum RF power: 13dBm(EIRP)
Frequency range: 110-205 kHz
Wireless Output power: 15W Max
Input: DC 9V 3A, 5V 3A
Output: DC 5V 1A, 7.5V 1A
9V 1.1A, 9V 1.67A

UK
CH

Remark:

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





TEST ITEM PARTICULARS:	at the left the life street miles
Product group	
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	□ Location: □ building □ equipment □ N/A
Equipment mobility:	□ movable
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV □ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location:	N/A□ restricted access area□ outdoor location□
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°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)	⊠ 0.454kg



Reference No.: WTF24D05104161R1Y Page 5 of 65

POSSIBLE TEST CASE VERDICTS:	the sur sur sur sur
- test case does not apply to the test object	: N/A
	The state of the s
- test object does meet the requirement	
- test object does not meet the requirement	: F (Fail)
TESTING:	C. In the let let
Date of receipt of test item	: See the cover
Date (s) of performance of tests	: See the cover
GENERAL REMARKS:	LIFE OUTER WILL WHILL WHILL WILL W
"(see Enclosure #)" refers to additional information	appended to the report.
"(see appended table)" refers to a table appended	to the report.
Throughout this report a \square comma $I \boxtimes$ point is	s used as the decimal separator.
GENERAL PRODUCT INFORMATION:	LIEX MITES MITE MALL MALL MALL MALL
including 2000 m above sea level.	emperature is 25°C. The specified altitude is up to and roved internal lithium-ion battery or USB type-C which
Model Differences	Che the the the the the



Reference No.: WTF24D05104161R1Y Page 6 of 65

Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2: All circuit	Enclosure	Equipment safeguard (clause 6.3.1 complied)	Equipment safeguard (clause 6.3.1 complied)	N/A
7	Injury caused by hazardous s	ubstances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery (See Annex M)	Ordinary	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part Safeguards			
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED for indicating	Ordinary	N/A	N/A	N/A



Reference No.: WTF24D05104161R1Y Page 7 of 65

	ENERGY SOURCE DIAGRAM					
Indicate which energy sources are included in the energy source diagram. Insert diagram below						
It IS THE THE LITTER WITH WITH THE THE THE THE THE THE THE THE THE T				- 11		
WALLE WALL	□ ES	☐ PS	☐ MS	☐ TS	RS	
	See details in OVE	RVIEW OF	ENERGY S	OURCES A	ND SAFEGUARDS	



Reference No.: WTF24D05104161R1Y Page 8 of 65

Le mi	Me And Alexander	EN IEC 62368-1	Mure and
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P.+
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	WP.
4.1.2 Military	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	UNLI PUV LIEK WALI WALIEK
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	AL 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	Ϋ́P
4.4.3.1	General	2 24 24	Р
4.4.3.2	Steady force tests	(See Clause T.4)	J. P.N
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	t the street while son!	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 we	Glass impact test (1J)	wife wife while while	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	WP.
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	LIER WILL WALL OF	P. P.
4.5.1	General		P.
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
West al	No harm by explosion during single fault conditions	(See Clause B.4)	NP P



N/A

Р

N/A

N/A

N/A

Reference No.: WTF24D05104161R1Y Page 9 of 65

20N force test with test hook

Component requirements

Disconnect Device

Switches and relays

4.9 4.10

4.10.1

4.10.2

	EN IEC 62368	til with which which	
Clause	Requirement – Test	Result – Remark	Verdict
alle.	The state of the state of	ser all mile with wi	in the
4.6	Fixing of conductors	See below	P
UNL U	Fix conductors not to defeat a safeguard	ALTER MITE WALL WALL	''L' P
et .	Compliance is checked by test	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socke	t-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)	The write wait wat a	N/A
4.8	Equipment containing coin/button cell batteries	e it it it.	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	CHIEF WILL WALL WALL	N/A
4.8.3	Battery compartment door/cover construction	The state of	N/A
in the	Open torque test	WITE WALTE WALL WALL	N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test	The Maria Maria M	N/A
4.8.4.4	Drop test	a state of the	N/A
4.8.4.5	Impact test	white mer mer and	N/A
4.8.4.6	Crush test	at The Ite	N/A
4.8.5	Compliance	2 242 24	N/A
EK OLIV	30N force test with test probe	The Little	N/A
4,.		The state of the s	

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sou	irces	P
5.2.2	ES1, ES2 and ES3 limits	All internal circuits are considered to be ES1	THE PART
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 jet sjet mie of	N/A
5.3	Protection against electrical energy sources	24, 24, 25,	N/A

Likelihood of fire or shock due to entry of conductive object



Reference No.: WTF24D05104161R1Y Page 10 of 65

	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Color !	M. M. Charles of	EL WILL MULL MULL MI	711	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	THE THE STILL ME	N/A	
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	The Mr. M. M.	N/A	
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	WILL MUTER MUTER WHILE	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit	N/A	
- KER	Accessibility to outdoor equipment bare parts	e at at at	N/A	
5.3.2.2	Contact requirements	WITE WILL WALL WA	N/A	
JEK N	Test with test probe from Annex V	a at at a	*	
5.3.2.2 a)	Air gap – electric strength test potential (V)	aller and and and	N/A	
5.3.2.2 b)	Air gap – distance (mm)	at let let stet	N/A	
5.3.2.3	Compliance	it, with mir, my	N/A	
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A	
5.4	Insulation materials and requirements	They are are	Р	
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A	
5.4.1.3	Material is non-hygroscopic	Mu Zu Zu	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)	y P	
5.4.1.5	Pollution degrees	The life life	N/A	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	with the text	N/A	
5.4.1.5.3	Thermal cycling test	"Mris mris Mris M	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	at at at of	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	White Aut Aut Aut	N/A	
5.4.1.8	Determination of working voltage	et set set stet	N/A	
5.4.1.9	Insulating surfaces	bry any any any	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	EX MITEX WALTER WALTER W	N/A	
5.4.1.10.2	Vicat test	at the little	N/A	
5.4.1.10.3	Ball pressure test	MULTI MULT MULT MULT	N/A	
5.4.2	Clearances	et tet of the	N/A	
5.4.2.1	General requirements	Mur Aur Aur Au	N/A	
TER WALTE	Clearances in circuits connected to AC Mains, Alternative method	TEX MITER MITER WITER	N/A	
5.4.2.2	Procedure 1 for determining clearance	at at at at	N/A	
20, 1	Temporary overvoltage	White Aut Aut A	_	
5.4.2.3	Procedure 2 for determining clearance	* * * * *	N/A	



Reference No.: WTF24D05104161R1Y Page 11 of 65

01	EN IEC 62368-	L. 31. 32.	Manali at
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3.2.2	a.c. mains transient voltage	The The Man	
5.4.2.3.2.3	d.c. mains transient voltage	The life sign	
5.4.2.3.2.4	External circuit transient voltage	They are are	~ _
5.4.2.3.2.5	Transient voltage determined by measurement	THE STIFF WHERE	W. C.
5.4.2.4	Determining the adequacy of a clearance using an	V. 11, 12, 1	N/A
3.4.2.4	electric strength test	TEX SLIER WITER WY	IN/A
5.4.2.5	Multiplication factors for clearances and test voltages	t at at a	N/A
5.4.2.6	Clearance measurement	White Man Mark	N/A
5.4.3	Creepage distances	LET LET LET	N/A
5.4.3.1	General	Milly Mer Aler	N/A
5.4.3.3	Material group	Let Tel Tel	IN/A
5.4.3.4		The Mer of	- N/A
5.4.4	Creepage distances measurement Solid insulation	et let let si	N/A
5.4.4.1		any any any	N/A N/A
5.4.4.2	General requirements Minimum distance through insulation	TEL TEL WILL	N/A
5.4.4.3	Insulating compound forming solid insulation	Wer My Mr	N/A
5.4.4.4	Solid insulation in semiconductor devices	at a puter	N/A
5.4.4.5			N/A
5.4.4.6	Insulating compound forming cemented joints Thin sheet material	TE CLE JOIN	N/A N/A
· · · · · · ·	The transfer of the same of th	70, 70,	L + 1
5.4.4.6.1	General requirements	ex remarks with	N/A
5.4.4.6.2	Separable thin sheet material	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
F 4 4 C 2	Number of layers (pcs)	WITE WITE WALL	N/A
5.4.4.6.3	Non-separable thin sheet material	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
E 4 4 C 4	Number of layers (pcs)	Will Mile Marie	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at the let	N/A
5.4.4.6.5	Mandrel test	mer mer me	N/A
5.4.4.7	Solid insulation in wound components	t tek itek ite	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	Mur Mur Mur	N/A
The The	Alternative by electric strength test, tested voltage (V), K _R	MULL MULL MILL	N/A
5.4.5	Antenna terminal insulation	LIET WITE WILLES WE	N/A
5.4.5.1	General	1 1	√ N/A
5.4.5.2	Voltage surge test	LE MALLE WALLE WALL	N/A
5.4.5.3	Insulation resistance (MΩ)		N/A



Reference No.: WTF24D05104161R1Y Page 12 of 65

EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
an.	W W THE STATE OF T	Er Weit White Mer	une and
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MULTE MILL MILL M	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WALTER WAL	N/A
5.4.8	Humidity conditioning	at alt alt stell	N/A
27,	Relative humidity (%), temperature (°C), duration	in the Mer Au	4)
- JEE	(h)	t of at at	3
5.4.9	Electric strength test	With My My	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at ret	N/A
5.4.9.2	Test procedure for routine test	aury aury aury au	N/A
5.4.10	Safeguards against transient voltages from external circuits	LIEF WHITEK WHITEK WHITE	N/A
5.4.10.1	Parts and circuits separated from external circuits	s it it it	N/A
5.4.10.2	Test methods	er while white whi	N/A
5.4.10.2.1	General	at at at	N/A
5.4.10.2.2	Impulse test	WELL MULL MULL M	N/A
5.4.10.2.3	Steady-state test	A Alt .	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	a fun an	N/A
5.4.11	Separation between external circuits and earth	LIE WALL WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	t lifet nitet initet	N/A
5.4.11.2	Requirements	7/1 / / /	N/A
mr, m	SPDs bridge separation between external circuit and earth	WHITE WHITE WHITE WE	N/A
LIET MIT	Rated operating voltage U _{op} (V)	TEK ITEK NIFE MIT	_
.L ./Ł	Nominal voltage U _{peak} (V)	Les Mes Ans Ans	_
MILITE	Max increase due to variation U _{sp.}	EL LIER NIER WILLER	.u _
	Max increase due to ageing U _{sa}	2/15 2/1, 20,	_
5.4.11.3	Test method and compliance	CITE NITE MITE	N/A
5.4.12	Insulating liquid	211 - 211 - 22	N/A
5.4.12.1	General requirements	aliet miret anife un	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid	LIE MIE WITE WITE	N/A
5.4.12.4	Container for insulating liquid		N/A
5.5	Components as safeguards	IN THE MAIL WATER	N/A
5.5.1	General General	No such components as safeguards.	N/A



Reference No.: WTF24D05104161R1Y Page 13 of 65

Clause	EN IEC 62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdict
5.5.2	Capacitors and RC units	The The The	N/A
5.5.2.1	General requirement	ALTER MITE WALTE	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	THE STEEL STEEL OF	N/A
5.5.3	Transformers	re me me	N/A
5.5.4	Optocouplers	TER SITER OUTER SIRV	N/A
5.5.5	Relays	24. 25.	N/A
5.5.6	Resistors	A STEE WITER WITE	N/A
5.5.7	SPDs	The state of	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	White White White	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	TELL LIFE NITER NO	N/A
+ 2+	RCD rated residual operating current (mA)		+ -
5.6	Protective conductor	TER SLIER WILL WILL	N/A
5.6.2	Requirement for protective conductors	the state of	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors	Mari A	N/A
SEK STE	Protective earthing conductor size (mm²)		est —
F ZEX	Protective earthing conductor serving as a reinforced safeguard	The man wat was	N/A
MUL	Protective earthing conductor serving as a double safeguard	White white wall	N/A
5.6.4	Requirements for protective bonding conductors	TER STEE STEE	N/A
5.6.4.1	Protective bonding conductors	24. 24. 2	N/A
ir, Aur	Protective bonding conductor size (mm²)	WITER OUTER WITE ON	,
5.6.4.2	Protective current rating (A)		N/A
5.6.5	Terminals for protective conductors	LER INLIER WILLE WILL	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	- THE STEEL STEEL	N/A
ALTEK AN	Terminal size for connecting protective bonding conductors (mm)	THE THE LIES	N/A
5.6.5.2	Corrosion	my my m	N/A
5.6.6	Resistance of the protective bonding system	THE THE LITTER IN	N/A
5.6.6.1	Requirements	n 14 14	N/A
5.6.6.2	Test Method	et liet outer oute	N/A
5.6.6.3	Resistance (Ω) or voltage drop	20, 20, 2,	N/A



Reference No.: WTF24D05104161R1Y Page 14 of 65

01	EN IEC 62368-		N/ 12 /
Clause	Requirement – Test	Result – Remark	Verdict
		Contract when are	1 110
5.6.7	Reliable connection of a protective earthing conductor	tet itet lifet mi	N/A
5.6.8	Functional earthing	The Mr. M. M.	N/A
liter with	Conductor size (mm²)	TEX STEX NITER MITE	N/A
1 1	Class II with functional earthing marking	the the to the tenth of	N/A
WALLE	Appliance inlet cl &cr (mm)	LER SLIEF WITE MILES	N/A
5.7	Prospective touch voltage, touch current and pr	otective conductor current	N/A
5.7.2	Measuring devices and networks	ex lifex writer write w	N/A
5.7.2.1	Measurement of touch current	711 71 1	N/A
5.7.2.2	Measurement of voltage	WITE WILL MALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	Tet with with writer	N/A
5.7.4	Unearthed accessible parts	1 24 24 24 25 The State of the	N/A
5.7.5	Earthed accessible conductive parts	EL STER WILL WILL W	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	Tet Tet Tet St	N/A
43, ~ ,	Protective conductor current (mA)	Mr. Mr. M. A.	N/A
NITE	Instructional Safeguard	ALTER MITE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables	ry mr my m	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	A MILES WHITES WHITES WE	N/A
5.7.8	Summation of touch currents from external circuits	at all all s	N/A
11 2)	a) Equipment connected to earthed external circuits, current (mA)	White white white white	N/A
	b) Equipment connected to unearthed external circuits, current (mA)	ALTER WALTE WALL WALL	N/A
5.8	Backfeed safeguard in battery backed up suppli	es the still still	N/A
24	Mains terminal ES	No battery used	N/A
Where ?	Air gap (mm)	ALTER MITER MATTER AND	N/A
, L	It let the the one out of	20, 20,	e st
6	ELECTRICALLY- CAUSED FIRE		July P
6.2	Classification of PS and PIS	Mr. M. M. 2.	Р
6.2.2	Power source circuit classifications	All circuits are considered to be PS2 circuits.	P
6.2.3	Classification of potential ignition sources	at the title	N/A



Reference No.: WTF24D05104161R1Y Page 15 of 65

20,	EN IEC 62368-	the the the	10. 0
Clause	Requirement – Test	Result – Remark	Verdict
Mer	M. M. J.	the write wall out our	211
6.2.3.1	Arcing PIS	All internal circuits are not considered as arcing PIS.	t JE
	The state of the s	They are supplied by external	N/A
	IF STEEL WILL MILL MILL MILL	power supply whose open	TEX
Vr. Alex	M. M. J. Tex	voltage is less than 50V.	The s
6.2.3.2	Resistive PIS		Р
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P
6.3.1	No ignition and attainable temperature value less	(See appended table 5.4.1.5,	P
	than 90 % defined by ISO 871 or less than 300 °C for unknown materials	6.3.2, 9.0, B.2.6)	
IN SERVICE	Combustible materials outside fire enclosure	TET TEX STEX WITE	N P
6.4		tions	P
J	Safeguards against fire under single fault condit		- CO
6.4.1	Safeguard method	Method by control of fire spread applied	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX WHITE WALTE WALTE W	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	MILIER WALTER WALTER WALT	N/A
6.4.3.1	Supplementary safeguards	At JET JET	N/A
6.4.3.2	Single Fault Conditions	The sure sure	N/A
SEK RUTE	Special conditions for temperature limited by fuse	THE THE	N/A
6.4.4	Control of fire spread in PS1 circuits	the sail sail sail	N/A
6.4.5	Control of fire spread in PS2 circuits	of the the state of	Р
6.4.5.2	Supplementary safeguards	MILL MILL MILL MILL	Р
6.4.6	Control of fire spread in PS3 circuits	- LET LET LET SLITE	N/A
6.4.7	Separation of combustible materials from a PIS	Mir My My My	N/A
6.4.7.2	Separation by distance	TEN TEN STEE WITTE	N/A
6.4.7.3	Separation by a fire barrier	We the the total	N/A
6.4.8	Fire enclosures and fire barriers	EF CEF SIE MIEN	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	The thirty	√ N/A
6.4.8.2.1	Requirements for a fire barrier	LIET NITER MITER ON	N/A
6.4.8.2.2	Requirements for a fire enclosure	2115 211 215 25	N/A
6.4.8.3	Constructional requirements for a fire enclosure	LIFE NITE WILL WATER	N/A
J. 1.0.0	and a fire barrier	m m m	14/7
6.4.8.3.1	Fire enclosure and fire barrier openings	LIER CLIER WILL WHILE	N/A
6.4.8.3.2	Fire barrier dimensions	70 7 7	N/A
6.4.8.3.3	Top openings and properties	let onlies anlies and an	N/A
At .	Openings dimensions (mm)	20 x 24 x	N/A
6.4.8.3.4	Bottom openings and properties	alter alter antil and	N/A



Reference No.: WTF24D05104161R1Y Page 16 of 65

	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Cally .	Will the state of	Et alle mere when	The Me	
,et	Openings dimensions (mm)	10, 10,	N/A	
	Flammability tests for the bottom of a fire enclosure	ALTER WITE WALTER	N/A	
at a	Instructional Safeguard	Zu z z	N/A	
6.4.8.3.5	Side openings and properties	RETER METER WALL V	N/A	
Et TEN	Openings dimensions (mm)	1 1	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	it while while wh	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	MILITER WALTER WALTE	N/A	
6.4.9	Flammability of insulating liquid	TEK JEK STEK	N/A	
6.5	Internal and external wiring	me me m	Р	
6.5.1	General requirements	THE THE STILL OF	LIP NET PUN	
6.5.2	Requirements for interconnection to building wiring	2 14 24 2	N/A	
6.5.3	Internal wiring size (mm2) for socket-outlets	Et liet nite int	N/A	
6.6	Safeguards against fire due to the connection to add	ditional equipment	P.	
1125 11	m and an an an	+ TEX TEXT MITES	inti with	
7	INJURY CAUSED BY HAZARDOUS SUBSTANCE	ES	Р	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
<u>+ _2</u>	Personal safeguards and instructions	_
7.5	Use of instructional safeguards and instructions	N/A
, et	Instructional safeguard (ISO 7010)	.e —
7.6	Batteries and their protection circuits	AND P

8	MECHANICALLY-CAUSED INJURY		Mr. Ban
8.2	Mechanical energy source classifications		A P
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and	corners	P.
8.4.1	Safeguards	INCITE WALL WALL WALL WALL	Р
INLTEK W	Instructional Safeguard:	MS1: Edges and corners of enclosure	WILL B.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	NUTE P
8.5	Safeguards against moving parts	V 211 211 21	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
WALTER.	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A



Reference No.: WTF24D05104161R1Y Page 17 of 65

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- (A) -)	Moving MS3 parts only accessible to skilled person	They have any an	N/A
8.5.2	Instructional safeguard:	LIEF WILL MILE MILE	N/A
8.5.4	Special categories of equipment containing moving parts	THE THE WITH WITH	N/A
8.5.4.1	General	the say in the	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	TEX SITEX WITE WITE W	N/A
8.5.4.2.1	Protection of persons in the work cell	111 11 11	N/A
8.5.4.2.2	Access protection override	RIFE WHITE WHITE WAS	N/A
8.5.4.2.2.1	Override system	a at at at	N/A
8.5.4.2.2.2	Visual indicator	WILL MILL MILL AND	N/A
8.5.4.2.3	Emergency stop system	at let let let	N/A
* 18th	Maximum stopping distance from the point of activation (m)	LE ME WE WE	N/A
in.	Space between end point and nearest fixed mechanical part (mm):	er white white white w	N/A
8.5.4.2.4	Endurance requirements	ALTER WITER WALTER WALT	N/A
NLTEX NALT	Mechanical system subjected to 100 000 cycles of operation	tet a liter mitter	N/A
1 1	- Mechanical function check and visual inspection	_ 1 1, 1, 2, 1	N/A
ie with	- Cable assembly	TE LIFE RELATED	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	t tet itet stret m	N/A
8.5.4.3.1	Equipment safeguards	m, m, m, m	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	TEX STEEL WITE MITTE	N/A
8.5.4.3.3	Disconnection from the supply	mr. m. m.	N/A
8.5.4.3.4	Cut type and test force (N):	LIER NITER INITE WHITE	N/A
8.5.4.3.5	Compliance	The state of	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
TEK	Explosion test:	at at all a	N/A
8.5.5.3	Glass particles dimensions (mm):	MULTE WALL WALL WALL	N/A
8.6	Stability of equipment	at at the state	N/A
8.6.1	General	MS1: Mass of the unit	N/A
TEK MITE	Instructional safeguard:	Let Jet Jet Ster	N/A
8.6.2	Static stability	The Mr. Mr.	N/A
8.6.2.2	Static stability test:	et liet aller aller of	N/A
8.6.2.3	Downward force test	m m m	N/A
8.6.3	Relocation stability	TEN LIER WITE WIT	N/A



Reference No.: WTF24D05104161R1Y Page 18 of 65

Clause	EN IEC 62368-	2 40 00 0	Mondiet
Clause	Requirement – Test	Result – Remark	Verdict
	Wheels diameter (mm):	my my my	,
Mr. M	Tilt test	aliet milet anliet an	N/A
8.6.4	Glass slide test	7/12 - 7/2 - 7/2	N/A
8.6.5	Horizontal force test:	RITER WALTER WALTE	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	t at all the	N/A
20/2	Test 1, additional downwards force (N)	MULLI MULL MULL M	N/A
WILLER ON	Test 2, number of attachment points and test force (N)	INLIER WALLER WALLER WAL	N/A
LIEK WALT	Test 3 Nominal diameter (mm) and applied torque (Nm)	LET OLIEK WILEK WALES	N/A
8.8	Handles strength	1 1 x x x	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	a a a	N/A
21/2 2	Number of handles	Write Write Mrs. Mr	11/2
OFF N	Force applied (N)	at the si	Et LIEK
8.9	Wheels or casters attachment requirements	The sure sure	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	in mer me me	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	at at at	N/A
8.10.3	Cart, stand or carrier loading test	WILL MILL MILL MILL	N/A
رزويد الرزا	Loading force applied (N)	et set set set	N/A
8.10.4	Cart, stand or carrier impact test	VEL MUE MUE AND AND	N/A
8.10.5	Mechanical stability	EK JEK JEK NITER	N/A
76	Force applied (N)	in in in	·
8.10.6	Thermoplastic temperature stability	- ITEK NITER WITER W	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	In	N/A
" MUST	Instructional Safeguard	LIEF WITE WHITE WHITE	N/A
8.11.3	Mechanical strength test	a de de	N/A
8.11.3.1	Downward force test, force (N) applied:	ER WHITE WHIT WHIT Y	N/A
8.11.3.2	Lateral push force test		N/A



Reference No.: WTF24D05104161R1Y Page 19 of 65

	EN IEC 62368	-1. The mark walk walk of	
Clause	Requirement – Test	Result – Remark	Verdict
0.44.0.0		the write hints, our way) N/A
8.11.3.3	Integrity of slide rail end stops	and the second	N/A
8.11.4	Compliance	" " WILL MILL MILL MULT	N/A
8.12	Telescoping or rod antennas	The state of the	N/A
2, 20,	Button/ball diameter (mm)	No such parts	
9	THERMAL BURN INJURY		P.
9.2	Thermal energy source classifications	- 40 - 40	P
9.3	Touch temperature limits	EK JEK NIEK WIEK MI	νP
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance	See B.1.6 & B.2.3	Р
9.4	Safeguards against thermal energy sources	THE LIEF SUITE MUTTER	P.
9.5	Requirements for safeguards		γP
9.5.1	Equipment safeguard	TS1	Р
9.5.2	Instructional safeguard	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General	atter mile	N/A
9.6.2	Specification of the foreign objects	1 1 1 1 t	N/A
9.6.3	Test method and compliance	(See appended table 9.6)	N/A
10	RADIATION	at at att att	Р
10.2	Radiation energy source classification	The Mr. Mr. Mr. All	Р
10.2.1	General classification	See below	Р
ī, 2,	Lasers	The August August 100	7.
TILE AUT.	Lamps and lamp systems	RS1: LED (exempt group), See IEC/EN 62471 test report.	MULTE.
E" MITE	Image projectors:	Et TEX LIER NITER IN	CTE TO
,,,	X-Ray	in the contraction	L =
MALIE	Personal music player	E- ITER ALTER MITER MAI	" WEEL
10.3	Safeguards against laser radiation	Any Any any Any	N/A
الدين عال	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	Р
, lit	Instructional safeguard provided for accessible	. * * * * * *	N/A



Reference No.: WTF24D05104161R1Y Page 20 of 65

01	EN IEC 62368	10 - 11 - 10 - 10 - 10 - 10 - 10 - 10 -	
Clause	Requirement – Test	Result – Remark	Verdict
7.F	Risk group marking and location	The Automotive	N/A
W. The	Information for safe operation and installation	y LIE NITE MITE	N/A
10.4.2	Requirements for enclosures	The things	N/A
The Marie	UV radiation exposure	ALTER MALTER MALTER AND	N/A
10.4.3	Instructional safeguard		N/A
10.5	Safeguards against X-radiation	LIE WILL WALL MAL	N/A
10.5.1	Requirements	No X-radiation	N/A
2/12 /	Instructional safeguard for skilled persons	in with the me	7/11/2
10.5.3	Maximum radiation (pA/kg)	et let let	JE# -
10.6	Safeguards against acoustic energy sources	MUTE AND AND A	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	his rue and an	N/A
in white	Acoustic output L _{Aeq,T} , dB(A)	Et TEX JEEK NITE	N/A
	Unweighted RMS output voltage (mV)	r me me m	N/A
Write a	Digital output signal (dBFS)	I LIEN SLIEN WITE	N/A
10.6.3	Requirements for dose-based systems	W. W.	N/A
10.6.3.1	General requirements	Let Control	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	CLIEB WILL WALL WALL	N/A
t the	30 s integrated exposure level (MEL30)	A A A	N/A
ans.	Warning for MEL ≥ 100 dB(A)	The spring white white	N/A
10.6.4	Measurement methods	a st set	N/A
10.6.5	Protection of persons	MALTE WALL WALL	N/A
JE#	Instructional safeguards	The set set	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	and whit with wir	N/A
10.6.6.1	Corded listening devices with analogue input	WER WILL WALL WALL	N/A
CLER	Listening device input voltage (mV)		N/A
10.6.6.2	Corded listening devices with digital input	MULL MULL AND	N/A
CLER C	Max. acoustic output L _{Aeq,T} , dB(A)	at the left	N/A
10.6.6.3	Cordless listening devices	Write Muri Mur A	N/A
TEX JE	Max. acoustic output L _{Aeq,T} , dB(A)	1 1 1 1 1	≪ N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General		
B.1.5	Temperature measurement conditions (See appended table B.1.5)	W. A.W	



Reference No.: WTF24D05104161R1Y Page 21 of 65

EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- apr		the wife were one one	701
B.2	Normal operating conditions		P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	₩P
	Audio Amplifiers and equipment with audio amplifiers:	WILL MUTER WHILE MUTEL	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc or 9Vdc	CE P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	of the set of	P
B.3.1	General	(See appended table B.3, B.4)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
3	Instructional safeguard:	ancil mit me mi	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	EX CIEX NITE NITES NO	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	No such audio amplifier	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions		Р
B.4.1	General	THE LIFE WITH MITTER	PIL BIL
B.4.2	Temperature controlling device	(See appended table B.3, B.4)	L P
B.4.3	Blocked motor test	(See appended table B.3, B.4)	P
B.4.4	Functional insulation	See below.	P+
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3, B.4)	₩P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3, B.4)	UNLIFE'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.3, B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.3, B.4)	P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	(See appended table B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р



Ρ

Ρ

Letter symbols for quantities and units are complied with IEC 60027-1.

Reference No.: WTF24D05104161R1Y

Page 22 of 65

		N IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Selection .	The The Table	TER TER LIFE NET MELL NO	e an
С	UV RADIATION		N/A
C.1	Protection of materials in equipment	nt from UV radiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	the man and an an an an an	N/A
C.2	UV light conditioning test	TER TER STEE STEE SMITE S	N/A
C.2.1	Test apparatus	and the second	N/A
C.2.2	Mounting of test samples	TEX STEP STEEL WITE SINGLE WIT	N/A
C.2.3	Carbon-arc light-exposure test	m m m	N/A
C.2.4	Xenon-arc light-exposure test	et let the the all only	N/A

C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test	WILL WILL MALL MALL	N/A
D.	TEST GENERATORS	a st set set	N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	e at at at	N/A
D.3	Electronic pulse generator	international way we	N/A
E JIEK	TEST CONDITIONS FOR EQUIPMENT CONTAININ	G AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio s	ignals	Р
RETER IN	Maximum non-clipped output power (W)	West Till Till	WITEE.
	Rated load impedance (Ω) 4	Ω σ σ	~
ier with	Open-circuit output voltage (V):	E The ALLE OLITER	The Th
بار با	Instructional safeguard:	M. 20, 20,	, -,
E.2	Audio amplifier normal operating conditions		P
,d+	Audio signal source type:	70 Th 12 12 12	.
Mer. a	Audio output power (W)	CLIEB WILL WALL WALL	Mr.
at .	Audio output voltage (V):	a state of the	- 16 <u>*</u>
r, "11,	Rated load impedance (Ω):	ite unit whit whi	11 _1
Et JE	Requirements for temperature measurement	e of the text	P.
E.3	Audio amplifier abnormal operating conditions	MULL MULL MULL MI	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		W.P.E
F.1	General	at the set	Р
10 20	Language	English	_

Letter symbols and graphical symbols

Letter symbols according to IEC60027-1

F.2

F.2.1



Reference No.: WTF24D05104161R1Y Page 23 of 65

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	SLIER WITE MALLE MALLE	We Pa
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	LIEF P
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	Р
F.3.3.1	Equipment with direct connection to mains	TER STER STER WITE	N/A
F.3.3.2	Equipment without direct connection to mains	Rated input 5Vdc or 9Vdc	ДР
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р
F.3.3.4	Rated voltage:	See copy of marking plate.	P
F.3.3.5	Rated frequency:	DC supply	N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	LIE WILL WALL WALL OF	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	* SLIER BLIEF WHITE WAS	N/A
F.3.5.2	Switch position identification marking:	14 14 5	N/A
F.3.5.3	Replacement fuse identification and rating markings:	WHITE WHITE WHITE WHE	N/A
lie will	Instructional safeguards for neutral fuse:	TEX TEX STEE STEE	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	111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	TEX LIEK SLIEK WITE	N/A
F.3.6.1.1	Protective earthing conductor terminal:	The The The The	N/A
F.3.6.1.2	Protective bonding conductor terminals:	TEX SITEX RUTER WAITER	N/A
F.3.6.2	Equipment class marking:	20, 20, 20, 20, 2	N/A
F.3.6.3	Functional earthing terminal marking:	EX SLIER WITE SULTE SUN	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	الا ر الم



Reference No.: WTF24D05104161R1Y Page 24 of 65

34	EN IEC 62368-	Til will much and a	1, 12,
Clause	Requirement – Test	Result – Remark	Verdict
Me	White the state of	En Will south My My My	71/2
F.3.8	External power supply output marking	No such parts.	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	JIP 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.	P WELLEY
.4	Instructions	tell tell titel stifet to	P. I
200	a) Information prior to installation and initial use	See user manual	Р
MILITER	b) Equipment for use in locations where children not likely to be present	MALTER WALTER WALTER	N/A
STEK ST	c) Instructions for installation and interconnection	TEN ITEN	N/A
et 16	d) Equipment intended for use only in restricted access area	the left	N/A
2h	e) Equipment intended to be fastened in place	THE WILL MUST MUST A	N/A
TEX	f) Instructions for audio equipment terminals	and the set of	N/A
apr.	g) Protective earthing used as a safeguard	MULL WILL WAY WAY	N/A
MULITER ON	h) Protective conductor current exceeding ES2 limits	NIEK MIEK WITEK WALTE	N/A
et s	i) Graphic symbols used on equipment	The state of the s	N/A
4 24	j) Permanently connected equipment not provided with all-pole mains switch	NITE WILL WILL WILL	N/A
MULL	k) Replaceable components or modules providing safeguard function	LET WHITE WHITE WHITE W	N/A
INLIE.	Equipment containing insulating liquid	- TEK STEK STEEK OUT	N/A
, , , , , , , , , , , , , , , , , , ,	m) Installation instructions for outdoor equipment	my my my my	N/A
F.5	Instructional safeguards	TER LIER SLITER MITER	N/A
3	COMPONENTS		Р
G.1	Switches	TEX LIER ALTER MITE.	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et liet sliet milet on	N/A
G.1.3	Test method and compliance	70, 71, 21, 2	N/A
G.2	Relays	- ITET LITET BLIEF BLIEF	N/A



Reference No.: WTF24D05104161R1Y Page 25 of 65

	EN IEC 62368-	2, 21, 22, 2	
Clause	Requirement – Test	Result – Remark	Verdict
G.2.1	Requirements	Ne relevised	N/A
G.2.1 G.2.2	Overload test	No relay used.	N/A N/A
G.2.2 G.2.3		anci, mr. mr.	
G.2.3	Relay controlling connectors supplying power to other equipment	TEX LIEX NITER IN	N/A
G.2.4	Test method and compliance	12. 24. 25. 2.	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No such component	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	White Mile Mile	N/A
Write M	Thermal cut-outs tested as part of the equipment as indicated in c)	ONLIER WALLEY WALLEY	N/A
G.3.1.2	Test method and compliance	at at at	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	Et MIEL MAIEL MIE	N/A
Jet	b) Thermal links tested as part of the equipment	at at all	N/A
G.3.2.2	Test method and compliance	WILL MULL MULL	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	Life while while while	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	the street springer	N/A
G.3.5.2	Single faults conditions:	101 101	N/A
G.4	Connectors	alies while while a	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	LIE WILL WALL WA	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	EX LIEX NITEX MILE	N/A
G.5	Wound components	711 721	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	70 70 70	N/A
G.5.2	Endurance test	MITER WALLE WALLE WI	N/A
G.5.2.1	General test requirements		/ N/A
G.5.2.2	Heat run test	LIE WALTE WALTE WAL	N/A
t JER	Test time (days per cycle):		
7/1	Test temperature (°C)	MULL MULL MULL	7n, _
G.5.2.3	Wound components supplied from the mains	L 14 15	N/A



Reference No.: WTF24D05104161R1Y Page 26 of 65

Clause Descriptors set Test Descriptors Set De			
Clause	Requirement – Test	Result – Remark	Verdict
G.5.2.4	No insulation breakdown	The August	N/A
G.5.3	Transformers	LITER MITE MITE	N/A
G.5.3.1	Compliance method:	24 24 2	N/A
ALT. WILL	Position	NITER UNITED WALLE	N/A
Et TEX	Method of protection	1 1 1	N/A
G.5.3.2	Insulation	TE WITE WILL WA	N/A
- CLER	Protection from displacement of windings	e at at a	* <u> </u>
G.5.3.3	Transformer overload tests	White With Multi	N/A
G.5.3.3.1	Test conditions	et set set	N/A
G.5.3.3.2	Winding temperatures	Mer Mer Mer	N/A
G.5.3.3.3	Winding temperatures - alternative test method	Alt Alt Off	N/A
G.5.3.4	Transformers using FIW	or me me a	N/A
G.5.3.4.1	General	et it it it si	N/A
	FIW wire nominal diameter:	Mr. M. M.	_
G.5.3.4.2	Transformers with basic insulation only	LIEF STEE WIFE	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	THE THE	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	- 1 July	N/A
G.5.3.4.5	Thermal cycling test and compliance	LIE WALL MAL MA	N/A
G.5.3.4.6	Partial discharge test	t at at a	N/A
G.5.3.4.7	Routine test	Mur Aur Au	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	Aller Aller Aller	N/A
G.5.4.2	Motor overload test conditions	TEX TEX STEEL	N/A
G.5.4.3	Running overload test	W. M. M. A.	N/A
G.5.4.4.2	Locked-rotor overload test	est with all the mi	N/A
	Test duration (days):	111 111 11	_
G.5.4.5	Running overload test for DC motors	- LIER WITE WITE	N/A
G.5.4.5.2	Tested in the unit	In the state of	N/A
G.5.4.5.3	Alternative method	OLITER MILLER MALIE	N/A
G.5.4.6	Locked-rotor overload test for DC motors	20. 2	N/A
G.5.4.6.2	Tested in the unit	LIER MALTE WALL WI	N/A
t JEK	Maximum Temperature	t the state of	/ N/A
G.5.4.6.3	Alternative method	LE MALL MALL WALL	N/A
G.5.4.7	Motors with capacitors	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A



Reference No.: WTF24D05104161R1Y Page 27 of 65

Clause	Requirement – Test	Result – Remark	Verdict
White .	MI WILL THE STATE OF THE STATE	TEL STEE WHITE WALTE	The think
G.5.4.8	Three-phase motors	100 100	N/A
G.5.4.9	Series motors	ALTER MITE MALTE	N/A
at a	Operating voltage	20 1	.t -
G.6	Wire Insulation	RETER UNLIE WALL WA	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	THE WILL WILL WILL	N/A
G.7	Mains supply cords	a at at at	N/A
G.7.1	General requirements	No such component	N/A
LIEK N	Туре:	at at let	JE# -
G.7.2	Cross sectional area (mm² or AWG)	MULL MULL MILL M	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	LIET WILLER WALTER WA	N/A
G.7.3.2	Cord strain relief	a at at a	N/A
G.7.3.2.1	Requirements	White Must Must	N/A
LITER I	Strain relief test force (N)	at let the	N/A
G.7.3.2.2	Strain relief mechanism failure	MULL MULL MILE.	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	THE THE	N/A
G.7.3.2.4	Strain relief and cord anchorage material	2 4 20 20	N/A
G.7.4	Cord Entry	The The Little Sti	N/A
G.7.5	Non-detachable cord bend protection	2115 211 211	N/A
G.7.5.1	Requirements	I TER STEE WITE	N/A
G.7.5.2	Test method and compliance	14, 14, 14,	N/A
mrii m	Overall diameter or minor overall dimension, <i>D</i> (mm)	WHITE WALTER WALTER V	mili —
LIET NALT	Radius of curvature after test (mm)	TEX TEX STER ON	JE
G.7.6	Supply wiring space	Les Me Me Me	N/A
G.7.6.1	General requirements	Et LIER NIER WITH	N/A
G.7.6.2	Stranded wire	111 111 111	N/A
G.7.6.2.1	Requirements	ALTER MITER MITER	N/A
G.7.6.2.2	Test with 8 mm strand	20 20 X	N/A
G.8	Varistors	WITE WITE WALLE W	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	LIER WHILE WHILE MAL	N/A
G.8.2.1	General	1 x & & &	N/A
G.8.2.2	Varistor overload test	antic main man	N/A
G.8.2.3	Temporary overvoltage test	1 1 1	N/A



Reference No.: WTF24D05104161R1Y Page 28 of 65

Le mi	The the the	EN IEC 62368-1	mile men
Clause	Requirement – Test	Result – Remark	Verdict

Giadoo	Tredunentent Tool	The state of the s	, craiot
G.9	Integrated circuit (IC) current limiters	The The The	N/A
G.9.1	Requirements	No such component	N/A
A 1	IC limiter output current (max. 5A):	24 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<i>*</i> –
in mi	Manufacturers' defined drift	CLIEF WITE WALLE WAL	_
G.9.2	Test Program	1 1 1 1	N/A
G.9.3	Compliance	THE WALLE WALLE WALL	N/A
G.10	Resistors	e at at at	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	at at 18th	N/A
G.10.3	Resistor test	MUTTER MUTE MET ME	N/A
G.10.4	Voltage surge test	et let tet at	N/A
G.10.5	Impulse test	The me me	N/A
G.10.6	Overload test	Et TEX LIER SLIER	N/A
G.11	Capacitors and RC units	The The In	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	111 111 111	N/A
G.11.3	Rules for selecting capacitors	LEK MILLE WA	N/A
G.12	Optocouplers		N/A
MUL	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
MILLE	Type test voltage V _{ini,a}	A TEX STEE STEE	anti —
	Routine test voltage, V _{ini, b}	141 141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
G.13	Printed boards	LITER INLIER MALTER IN	n P
G.13.1	General requirements	24	A AP
G.13.2	Uncoated printed boards	ALTER MITER MALIE WAL	P.V
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	it wait with my	N/A
G.13.5	Insulation between conductors on different surfaces	White white white	N/A
NITE WIL	Distance through insulation	TEX LIEX WIFE W	N/A
. L	Number of insulation layers (pcs)	m. m. m. m.	_
G.13.6	Tests on coated printed boards	TER STEE STEE WITH	N/A
G.13.6.1	Sample preparation and preliminary inspection	An In A	N/A
G.13.6.2	Test method and compliance	EX NITE WILLER WALLER	N/A
G.14	Coating on components terminals	24. 24. A	N/A
G.14.1	Requirements	wife all and	N/A



Reference No.: WTF24D05104161R1Y Page 29 of 65

- m	m a t	EN IEC 62368-1	in the the
Clause	Requirement – Test	Result – Remark	Verdict

G.15	Pressurized liquid filled components	41, 42,	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	The state of the s	N/A
G.15.2.1	Hydrostatic pressure test	RITER MITE WALL MILE	N/A
G.15.2.2	Creep resistance test	a state	N/A
G.15.2.3	Tubing and fittings compatibility test	THE WALL WALL WALL W	N/A
G.15.2.4	Vibration test	e state of	N/A
G.15.2.5	Thermal cycling test	MULT WILL WE WE	N/A
G.15.2.6	Force test	et et tet te	N/A
G.15.3	Compliance	White Man are and	N/A
G.16	IC including capacitor discharge function (ICX)	at let let lite	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
MULTER	ICX with associated circuitry tested in equipment	EX TEX LIEX LIEX II	N/A
7	ICX tested separately	Mr. Mr. M. M.	N/A
G.16.2	Tests	TEX STEX STEEL STEEL	N/A
alter nu	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	THE LIE	_
CENT SE	Mains voltage that impulses to be superimposed on	The late the	_
t "it	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	The white white white or	_
G.16.3	Capacitor discharge test:	ex alter while whi	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	3	N/A
H.1 🐠	General	alife with while with	N/A
H.2	Method A	The state of the	N/A
H.3	Method B	WILL WHILE MALL MALL	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	to the liter outer and	_
H.3.1.2	Voltage (V)	2112 211 221 22	_
H.3.1.3	Cadence; time (s) and voltage (V)	LIEF WILL WILL WILLE	_
H.3.1.4	Single fault current (mA)::	m m t	_
H.3.2	Tripping device and monitoring voltage	LIEF WITE WILL MALLE	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	et liet wifet wifet un	N/A
H.3.2.2	Tripping device	111. 211. 21.	N/A
H.3.2.3	Monitoring voltage (V)	TEN STER STER SOLL	N/A



Reference No.: WTF24D05104161R1Y Page 30 of 65

r	Cie. Marie	Mr. Mos Alle	EN IEC 62368-	Liet witer white	Write Marie Marie
	Clause	Requirement – Test	The Auto and an	Result – Remark	Verdict

J	INSULATED WINDING WIRES FOR USE WITHOUN INSULATION	UT INTERLEAVED	N/A
J.1	General	Mr. Mr. M. M.	N/A
The WA	Winding wire insulation	TEX TEX NITE OUTE	_
A 11	Solid round winding wire, diameter (mm):	the many and	N/A
MULL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²)	LEE WHITEE WHITE WHITE W	N/A
J.2/J.3	Tests and Manufacturing	the tell little still still	E. J.C.
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
itek mi	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition	The state of	N/A
K.6	Mechanically operated safety interlocks	SEX SUITE MALTE	N/A
K.6.1	Endurance requirement	_ 1 _ 1 _ 1 _ 1 _ 1 _ 1	N/A
K.6.2	Test method and compliance:	THE OUTE WILL WALL OF	N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	Multi while whi wh	N/A
mrite w	In circuit connected to mains, separation distance for contact gaps (mm):	while while while while	N/A
ilifeik wali	In circuit isolated from mains, separation distance for contact gaps (mm):	NIEK WITEK WILLER WILLER	N/A
ek water	Electric strength test before and after the test of K.7.2	THE STIFF WITH WATER WE	N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test	THE MILE WALL WALL WALL	N/A
K.7.4	Electric strength test	L A A A	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	a at at at	N/A
L.2	Permanently connected equipment	LITE WALL WALL WALL A	N/A
L.3	Parts that remain energized	at at all all a	N/A
L.4	Single-phase equipment	Auri Aur Au Au	N/A
L.5	Three-phase equipment	at the set of	N/A



Reference No.: WTF24D05104161R1Y Page 31 of 65

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mer	who we are the state with	EL TILL MILL MILL MA	211	
L.6	Switches as disconnect devices		N/A	
L.7	Plugs as disconnect devices	WILL MILL MULL MALL	N/A	
L.8	Multiple power sources	The state of the s	N/A	
20, 20,	Instructional safeguard:	alter with wall wall	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		P	
M.1	General requirements	THE WILL MUST MUST IN	Р	
M.2	Safety of batteries and their cells	e at at set o	P	
M.2.1	Batteries and their cells comply with relevant IEC standards	IEC 62133-2:2017 considered. See test report.	P	
M.3	Protection circuits for batteries provided within the equipment	WALTER WALTER WALL WALL	₩. P	
M.3.1	Requirements	THE LIFE WITH WITH	P.	
M.3.2	Test method	20 20 20	Р	
NAVE .	Overcharging of a rechargeable battery	EX LIET WILL WILL MI	Р	
	Excessive discharging	711 211	← P ₄	
MUTE A	Unintentional charging of a non-rechargeable battery	Rechargeable Li-ion battery used.	N/A	
ntite and	Reverse charging of a rechargeable battery	The design of the connector prevents reverse polarity connections.	N/A	
M.3.3	Compliance	(See appended table M.3)	Р	
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	EK PU	
M.4.1	General	4 4	P	
M.4.2	Charging safeguards	ALTER MITE WALL WALL	JIN P	
M.4.2.1	Requirements	The state of	ZΘP	
M.4.2.2	Compliance:	(See appended table M.4.2)	Р	
M.4.3	Fire enclosure:	PS2 battery, fire enclosures or barriers required	TEK P	
M.4.4	Drop test of equipment containing a secondary lithium battery	(See appended table M.4.4)	P.	
M.4.4.2	Preparation and procedure for the drop test	The Mr. M. M.	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%.	un l'P	
M.4.4.4	Check of the charge/discharge function	at the tit the	P	
M.4.4.5	Charge / discharge cycle test	in mi mi mi	Р	
M.4.4.6	Compliance	at the set set	P	
M.5	Risk of burn due to short-circuit during carrying	white and my	Р	



Reference No.: WTF24D05104161R1Y Page 32 of 65

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.5.1	Requirement	No bare conductive terminal	P	
101.5.1	requirement	used	NILITER	
M.5.2	Test method and compliance	Mr. Mr. M. M.	N/A	
M.6	Safeguards against short-circuits	TEK LIEK NITER MITER	JALI P	
M.6.1	External and internal faults	our my my	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.	EL PIN	
M.7	Risk of explosion from lead acid and NiCd batte	ries At 18th 18th 18th	N/A	
M.7.1	Ventilation preventing explosive gas concentration	mr. m. m.	N/A	
LIE MALT	Calculated hydrogen generation rate:	THE THE STEE STEE	N/A	
M.7.2	Test method and compliance	La Ma Ma Man	N/A	
MULL	Minimum air flow rate, Q (m³/h)	Et liet wife anie an	N/A	
M.7.3	Ventilation tests	All All All	N/A	
M.7.3.1	General	CIER MIE WALTE WALTE	N/A	
M.7.3.2	Ventilation test – alternative 1		N/A	
in an	Hydrogen gas concentration (%):	White man	N/A	
M.7.3.3	Ventilation test – alternative 2	+ ,it	N/A	
. alex	Obtained hydrogen generation rate:	Lien White Murit Marin A	N/A	
M.7.3.4	Ventilation test – alternative 3	a state of the	N/A	
Mr.	Hydrogen gas concentration (%):	E WELL MILL MULL AND	N/A	
M.7.4	Marking:	at all the ste	N/A	
M.8	Protection against internal ignition from externa with aqueous electrolyte	al spark sources of batteries	N/A	
M.8.1	General	ALTER MITER WALTER WALTER	N/A	
M.8.2	Test method		N/A	
M.8.2.1	General	TE WILL MULL MULL M	N/A	
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):	at the co	EX TEN	
M.8.2.3	Correction factors:	MILL MILL MILL MILL	41/2	
M.8.2.4	Calculation of distance d (mm):	Let Let Let Lieb Lieb	INLIE .	
M.9	Preventing electrolyte spillage	mer mer me me	N/A	
M.9.1	Protection from electrolyte spillage	TEX TEX TIEX WITE	N/A	
M.9.2	Tray for preventing electrolyte spillage	Ve Me My My	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	LEX MULTER MULTER MULTER WA	N/A	
C. C.	Instructional safeguard:	A A A A A	N/A	



Reference No.: WTF24D05104161R1Y Page 33 of 65

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

N 🖈	ELECTROCHEMICAL POTENTIALS		N/A
Mr. M	Material(s) used:	ALTER WATE MALTE WAL	MILL
0,4	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
c. av	Value of X (mm)	nlies while while whi	110, -1
Pt del	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	TS A A	N/A
P.1	General	the Write Mrs. My. 2	N/A
P.2	Safeguards against entry or consequences of e	ntry of a foreign object	N/A
P.2.1	General	MULL MULL MULL MILL	N/A
P.2.2	Safeguards against entry of a foreign object	it lit tet til	N/A
ii	Location and Dimensions (mm)	me me me	
P.2.3	Safeguards against the consequences of entry of a foreign object	LIER WILLER WHITER WHITER	N/A
P.2.3.1	Safeguard requirements	at the test test	N/A
ZEK-	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	mit wit with	N/A
14 1	Transportable equipment with metalized plastic parts	White White White whi	N/A
P.2.3.2	Consequence of entry test	LEE MALIE MALIE	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	7 × 10	N/A
P.3.3	Spillage safeguards	IN THE MALL WALL WA	N/A
P.3.4	Compliance	a at at a	N/A
P.4	Metallized coatings and adhesives securing par	ts with white white white	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	write must must must	N/A
	Conditioning, T _C (°C)	et set set stet	STEK JAL
20,	Duration (weeks)	and the the	
Q CO	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	P
Q.1	Limited power sources	my my my	P
Q.1.1	Requirements	THE LIER OUTER WITE	JIN'P
A .	a) Inherently limited output	The Mr. In A.	Р
in Muri	b) Impedance limited output	TEX SITES MITES MITES	N/A
t st	c) Regulating network limited output	41 2n 4	N/A
MULL	d) Overcurrent protective device limited output	et outer white white ou	N/A
1.00	e) IC current limiter complying with G.9	20, 2, 4	N/A
Q.1.2	Test method and compliance:	(See appended table Q.1)	N P



Reference No.: WTF24D05104161R1Y Page 34 of 65

01	EN IEC 62368-		1,, ,,
Clause	Requirement – Test	Result – Remark	Verdict
Su.	Current rating of overcurrent protective device (A) :	We we were	N/A
Q.2	Test for external circuits – paired conductor cable	white white while whe	N/A
LITE MAI	Maximum output current (A):	TER TIER WIFE WIFE	N/A
st si	Current limiting method	he my my	
R	LIMITED SHORT CIRCUIT TEST	TEX SLIER BLIEF WALTER	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	to outer antice antice an	N/A
Act.	Overcurrent protective device for test:		* T
R.3	Test method	WITE WALL WALL WALL	N/A
JEK J	Cord/cable used for test	the set of the	JEST .
R.4	Compliance	THE MULL MULL MULL	N/A
S J	TESTS FOR RESISTANCE TO HEAT AND FIRE	at left telt their	N/A
S.1	Flammability test for fire enclosures and fire bar where the steady state power does not exceed 4		N/A
	Samples, material:	White Mulic and and	4/1
CIEN S	Wall thickness (mm)	A ART ST	t circit
12 24	Conditioning (°C)	The sur	10 -
IEK MUTL	Test flame according to IEC 60695-11-5 with conditions as set out	TE MITE WHILE WHILE	N/A
t tet	- Material not consumed completely	e st set set	N/A
2/1	- Material extinguishes within 30s	MULL MULL MULL M	N/A
JEK .	- No burning of layer or wrapping tissue	at all the	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
رزاد اد الارز	Samples, material:	et let jet stel	CALLET .
	Wall thickness (mm):	irry Aug Aug Aug	
ELMILE	Conditioning (°C):	EK TEK STEK MITER	Water and
S.3	Flammability test for the bottom of a fire enclosur	ure	N/A
S.3.1	Mounting of samples	TER STEE WIFE SIN	N/A
S.3.2	Test method and compliance	My My M	N/A
Wry an	Mounting of samples:	ALTER MITER MALTE WALL	Mr.
A S	Wall thickness (mm):	In a st set	TEV-
S.4	Flammability classification of materials	LIER WILL WILL MALL	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
J. C. E.	Samples, material	at at the	E SOL



Reference No.: WTF24D05104161R1Y Page 35 of 65

Clause	Doguiroment Toot	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	Verdict
.et	Wall thickness (mm):	Mr. Mr. M. M.	et et
ane a	Conditioning (°C)	CLIEB WILL WILL WILL	AL.
Tat .	MECHANICAL STRENGTH TESTS		P
T.1	General	WILL MULL MULL MULL	n P
T.2	Steady force test, 10 N:	(See appended table T.2)	N/A
T.3	Steady force test, 30 N:	it with mit me	N/A
T.4	Steady force test, 100 N	(See appended table T.4)	Jet Pre
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
T.6	Enclosure impact test	(See appended table T.6)	N/A
	Fall test	mer mer me m	N/A
LIER MIL	Swing test	TEX JEX JIEK MITER	N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	Р
T.9	Glass Impact Test	No such glass	N/A
T.10	Glass fragmentation test		
STEEL N	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas	a fur an	N/A
FER WALTE	Torque value (Nm):	No such antennas provided within the equipment.	N/A
UNITEK	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General	71, 72	N/A
nur M	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A
U.3	Protective screen	h. M. M.	N/A
V Julii	DETERMINATION OF ACCESSIBLE PARTS	TER STEE WITE MATE	N/A
V.1	Accessible parts of equipment	70° 10° 14	N/A
V.1.1	General	MITER MITE MILE M	N/A
V.1.2	Surfaces and openings tested with jointed test probes	THE TIPE STIPE MILE	N/A
V.1.3	Openings tested with straight unjointed test probes	ny ny z	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	CTES OLITER WALTER WALTER	N/A
V.1.5	Slot openings tested with wedge probe	The state of the s	N/A
V.1.6	Terminals tested with rigid test wire	it nifet wife wall w	N/A
V.2	Accessible part criterion	11. 1	N/A



Reference No.: WTF24D05104161R1Y Page 36 of 65

ŗ	The Maria	Mr. Mar. All.	EN IEC 62368-	Lifet mires whires	Tre Mirit Mirr
	Clause	Requirement – Test	The Maria and any	Result – Remark	Verdict

X WALLEY	ALTERNATIVE METHOD FOR DETERMINING CLINSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
Jet 1	Clearance:	at the fifth	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	in my my m	N/A
Y.3	Resistance to corrosion	t get get wet	N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	MILITER WALTER WALTER	N/A
Y.3.2	Test apparatus	at all all all	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	ir, mr. mr. m. 1	N/A
Y.3.4	Test procedure	of let let like	N/A
Y.3.5	Compliance	me me m	N/A
Y.4	Gaskets	TEX TEX STEE SLIP	N/A
Y.4.1	General	The sure sure	N/A
Y.4.2	Gasket tests	At Mark Mile	N/A
Y.4.3	Tensile strength and elongation tests	7 1 1	N/A
MULL	Alternative test methods	TE SITE MIN WHITE W	N/A
Y.4.4	Compression test	24 X	N/A
Y.4.5	Oil resistance	the still will make make	N/A
Y.4.6	Securing means	The state of	N/A
Y.5	Protection of equipment within an outdoor enclo	osure	N/A
Y.5.1	General	L A ST ST	N/A
Y.5.2	Protection from moisture	RITE MITT WILL WILL	N/A
EX JEY	Relevant tests of IEC 60529 or Y.5.3	at the test of	N/A
Y.5.3	Water spray test	in mur and an	N/A
Y.5.4	Protection from plants and vermin	- let let let let	N/A
Y.5.5	Protection from excessive dust	mer mer me m	N/A
Y.5.5.1	General	LEK TEK TEK TEK	N/A
Y.5.5.2	IP5X equipment	MUT ALL ALL ALL	N/A
Y.5.5.3	IP6X equipment	TEX TEX STEE STEEL	N/A
Y.6	Mechanical strength of enclosures	or the the the	N/A
Y.6.1	General	Et ITEX NITER OUTER NO	N/A
Y.6.2	Impact test:	24, 24, 25	N/A



Reference No.: WTF24D05104161R1Y Page 37 of 65

EN IEC 62368-1					
	Clause Require	ment – 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)		Р
united of	Clause numbers in the cells that are shaded light greater 1EC 62368-1:2020+A11:2020. All other clause numbers those in the paragraph below, refers to IEC 62368-1. Clauses, subclauses, notes, tables, figures and anneathose in IEC 62368-1:2018 are prefixed "Z".	pers in that column, except for :2018.	P WALTE TEX
iek watek	Add the following annexes: Annex ZA (normative)Normative references to interrecorresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	HE WRITE WILL WHILL WHILL WHILE	P FEEK 1917 1917
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following de	finitions:	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 Pa² s. $E = \int_{0}^{T} p(t)^2 \mathrm{d}t$	TEK WILLER WILLER WILLER	N/A



Reference No.: WTF24D05104161R1Y Page 38 of 65

Clause	Requirement – Test	Result – Remark	Verdict
The .	M IN THE STE	THE WALL WALL	me me
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, E_0 , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: SEL is measured as A-weighted levels in dB.	MUTER MUTER MUTER M	N/A
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$ Note 2 to entry: See B.4 of EN 50332-3:2017 for additional	EX JUNITEX WHITEX WHITE	white white
alter w	information.	let let let let	LIEN WILLE
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the	JALL WALTER WALTER WALTER MALTER WALTER MALTER MALT	N/A
TEX C	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.	with my my w	TEX TEX
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction 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: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - 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.).	Not such equipment	AND THE WAR
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	t whilet multer whiles	WALTE Y WALT
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	A ST ST	TEN LIE

EN IEC 62368-1



Reference No.: WTF24D05104161R1Y Page 39 of 65

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- che	NOTE 1 Protection against acquatic answer	antite white white	111.	
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	1 x	LIT LET	
	NOTE 2 It is the intention of the Committee to allow the	TER STEE WITE	Will Mur	
	alternative methods for now, but to only use the dose	m. m. m.		
	measurement method as given in 10.6.5 in future. Therefore,	Let Let Jet .	LIER SLIE	
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	aria muri mar m	. 7,	
	Listoning devices cold congretaly shall comply with	1 1 1 1	et et	
	Listening devices sold separately shall comply with the requirements of 10.6.6.	JER OLIE WILL WALL	The The	
	These requirements are valid for music or video	10, 10, 1	A- 0	
	mode only.	A LET TEX JEST	" NITE MITE	
	The requirements do not apply to:	White the Me	20, 20.	
	- professional equipment;	t at at	THE THE	
	NOTE 3Professional equipment is equipment sold through	ALTER MITE MALLE	Wer Mer	
	special sales channels. All products sold through normal	14. 14. 2.	A 14	
	electronics stores are considered not to be professional equipment.	LET TEX TEXT	The Wife of	
	the state of the state of	in mer mer m	20 20	
	- hearing aid equipment and other devices for	e of the	y 5 5 5	
	assistive listening;	it with with white	mr m	
	 the following type of analogue personal music players: 	14, 12,		
	• long distance radio receiver (for example, a	- TEH TEH TIER	CALIFE MALITY	
	multiband radio receiver or world band radio	Wer. The Man	10, 2,	
	receiver, an AM radio receiver), and	and the	THE THE	
	cassette player/recorder;	WILL W	V. 2 V. 1	
	NOTE 4 This exemption has been allowed because this		A St	
	technology is falling out of use and it is expected that within a few	The state of	The street	
	years it will no longer exist. This exemption will not be extended to other technologies.	in the the the		
	Life Will Marin Ma	I st st st	- 56° 55°	
	 a player while connected to an external amplifier that does not allow the user to walk around while in 	WITH WILL WALL	21100 211	
	Use.	20, 20	Jt 15t	
	is assisted the the	THE LIER LIER	WILL WILL	
	For equipment that is clearly designed or intended	mr. Mr. M.		
	primarily for use by children, the limits of the	at at at	TEX TEX	
	relevant toy standards may apply.	retter anette annet un	21, 21	
	The relevant requirements are given in	77	* *	
	EN 71-1:2011, 4.20 and the related tests methods	CER LIER LIER WILL	and whi	
	and measurement distances apply.	The Mr. Mr.		
10.6.1.2	Non-ionizing radiation from radio frequencies in	t let let let	N/A	
	the range 0 to 300 GHz	whi we we	21, 12,	
	The amount of non-ionizing radiation is regulated by		TEN TEN	
	European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the	CLIFE MITE MAIN	ve in i	
	general public to electromagnetic fields (0 Hz to 300	11. 24. 2.	A 24	
	GHz).	Et TEX JEX J	TE WITE U	
	For intentional radiators, ICNIRP guidelines should	in my me m.	20.	
	be taken into account for Limiting Exposure to		+ 50 × 50	
	Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-	er write write white	Mr. Mil	
	held and body mounted devices, attention is drawn	20, 20, 2	4 04	
	to EN 50360 and EN 50566.	CH TEX TEXT	The Street	



Reference No.: WTF24D05104161R1Y Page 40 of 65

Later Christ	EN IEC 62368-1	Mr. I Miss	
Clause	Requirement – Test	Result – Remark	Verdict

10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
JO.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 <i>L</i> _{Aeq, T} , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long	Not such equipment	W N/A LIFE WALTER WA
	term $LAeq, \tau$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.	TEX WATER WATER WATER	out itek out
	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	white white white white wh	TEK WALTER
ek while	noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	The state of the s	MAJEK MAJ
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does	MULTER WHITER WHITER	N/A
	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	united whitest whitest was	IEK MILIEK
	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 ≤ 85 dB when playing the fixed	ITEK WALTER WALTER WALTER	WELL AVE
	"programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized	WILL WILEY WILEY	ITE WALTER
	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.	NITES WALTER WALTER WALTER	on lex
MLIEK	The RS1 limits will be updated for all devices as per 10.6.3.2.	t let let liet	NLTE MALTE
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	THE WAY THE	N/A
	RS2 is a class 2 acoustic energy source that does	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101



Reference No.: WTF24D05104161R1Y Page 41 of 65

- 2	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
aller.	Will the the the	the still mile whi	Mrs. Mrs.
	not exceed the following:	20 20	* #
	- for equipment provided as a package (player with	LIFE THE THE	LIFE WITE
	its listening device), and with a proprietary	WILL THE MAN M	20
	connector between the player and its listening	20, 20	e et
	device, or when the combination of player and	Lite Lite State S	Er Live
	listening device is known by other means such as	Life into white when	20, 20
	setting or automatic 130 detection, the L Aeq, $ au$		_ J.
	acoustic output shall be ≤ 100 dB(A) when playing	IN THE THE THE	
	the fixed "programme simulation noise" as	with with the	20,
	described in EN 50332-1.		0- 0
	for equipment provided with a standardized	LET THE THE	with win
	connector (for example, a 3,5 phone jack) that	THE WAY THE	211.
	allows connection to a listening device for general	3	14 1th
	use, the unweighted r.m.s. output voltage shall be ≤	THE THE LITTER OF	LIE MAN
	150 mV (analogue interface) or -10 dBFS (digital	Wer and any	
	interface) when playing the fixed "programme		the set
7. W.	simulation noise" as described in EN 50332-1.	all the star and	- 11 C. 111
10.6.2.4	RS3 limits	711 211 12	N/A
	RS3 is a class 3 acoustic energy source that	* It let let	J. J. S.
200	exceeds RS2 limits.	in the only with	21/2 22
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General	Not such equipment	N/A
	Previous limits (10.6.2) created abundant false	131 311	
	negative and false positive PMP sound level	A STATE OF	in the
	warnings. New limits, compliant with The	" " " " " " " " " " " " " " " " " " "	2, 2
	Commission Decision of 23 June 2009, are given		L St.
and a	below.	Committee of the	ing land
10.6.3.2	RS1 limits (new)	in my mi	N/A
	RS1 is a class 1 acoustic energy source that does		TE SITE
	not exceed the following:	LITE MIT WALL	are are
	- for equipment provided as a package (player with	20, 20, 20,	
	its listening device), and with a proprietary	the second second	THE LIE
	connector between the player and its listening	alite mere and we	The state of
	device, or where the combination of player and	24. 25. 2	1 1
	listening device is known by other means such as	at at let a	CL CLC
	setting or automatic detection, the L Aeq, $ au$ acoustic	Lite mit wat wat	21, 20,
	output shall be ≤ 80 dB when playing the fixed	20. 2	1
	"programme simulation noise" described in EN	of the text the	
	50332-1.	OUT, WIFE MILE	20,
	for equipment provided with a standardized	3	. N
	connector (for example, a 3,5 phone jack) that	THE THE CHE	WILL WILL
	allows connection to a listening device for general	The way was	11. 12.
	use, the unweighted r.m.s. output voltage shall be ≤	3	at at
	15 mV (analogue interface) or -30 dBFS (digital	TEN TEN LITER OF	The Maria
	interface) when playing the fixed "programme	The Mer My Mr.	
10.6.3.3	simulation noise" described in EN 50332-1. RS2 limits (new)	A 10 10 10	N/A
10.0.0.0	RS2 is a class 2 acoustic energy source that does	the more mure mure	100
	not exceed the following:	that at	1 to 1
		The AV AV	. CV . CV
	- for equipment provided as a package (player with	and the state of t	A 20.
		MULLE MILL MAL	'11. ' '1.
	- for equipment provided as a package (player with	Multil mult mil	TEX TEX



Reference No.: WTF24D05104161R1Y Page 42 of 65

EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
whitek w	listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that	antifek whitek whitek w	NATER WALTER	
Whitek	allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	THE WALTER WALTER	untile wate	
10.6.4	Requirements for maximum sound exposure	are are an are	N/A	
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A	
10.6.4.2	Protection of persons	THE SHE WILL	N/A	
nitek wai	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	with white whi	LER NITER	
	NOTE 1 Volume control is not considered a safeguard .	The State State	t and lest and	
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	Whitek whitek whitek	ounties unitest	
	The elements of the instructional safeguard shall be as follows:	ter witer whitek whitek	AUTE AUT	
	- element 1a: the symbol (2011-01) - element 2: "High sound pressure" or equivalent	MULTER MULTER MULTER	UNITED WALTER	
	wording - element 3: "Hearing damage risk" or equivalent wording - element 4: "Do not listen at high volume levels for	OUTER MUTER MUTER MI	TEX WALTER	
	long periods." or equivalent wording An equipment safeguard shall prevent exposure	TEX WITEX WITEX WITE	Maria M	
	of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output	MALIER WALLE WALLE	MUT. AND	



Reference No.: WTF24D05104161R1Y Page 43 of 65

01	EN IEC 62368-1	41 42	1,,
Clause	Requirement – Test	Result – Remark	Verdic
-21	source when the power is switched off.	There were one	711 721
	Source When the period to switched only	at at let	TEK TE
	The equipment shall provide a means to actively	WILL MULL MULL M	ic. In.
	inform the user of the increased sound level when the equipment is operated with an output exceeding	- L A	et let
	RS1. Any means used shall be acknowledged by	LIER SLIER WITE WAL	10 m
	the user before activating a mode of operation	- m m	
	which allows for an output exceeding RS1. The	EX JEX JEX JE	r note an
	acknowledgement does not need to be repeated more than once every 20 h of cumulative listening	in my my	20,
	time.	at at at	JE J
	W W THE STREET	WILL WILL WILL	the the
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	The state of	TEX JEX
	NOTE 3 The 20 h listening time is the accumulative listening	WILL WILL MULL M	r. mr
	time, independent of how often and how long the personal music player has been switched off.	at the test of	EK STEK
	A skilled person shall not be unintentionally	y we me me	21, 7
40.6.5	exposed to RS3.		3/10
10.6.5	Requirements for dose-based systems	The Mr. Mr.	N/A
10.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as provided below when tested according to EN	wing the the 1	12.
	50332-3, using the limits from this clause.	and the second	THE THE
		The same of the same	4/2
	The manufacturer may offer optional settings to		t lit
	allow the users to modify when and how they wish to receive the notifications and warnings to promote	E. I'm Clark Mile	112 116
	a better user experience without defeating the	Mr. M. M.	
	safeguards. This allows the users to be informed in	- THE THE STATE	NITE WIT
	a method that best meets their physical capabilities	West wife were	2/1, 20.
	and device usage needs. If such optional settings are offered, an administrator (for example, parental	1 1 1	LEY LEY
	restrictions, business/educational administrators,	SLIFE TOLIE STALLE AND	216
	etc.) shall be able to lock any optional settings into	71/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2	4 1
	a specific configuration.	TEX STEX STER OUT	Er Wille
	The personal music player shall be supplied with	in the min	
	easy to understand explanation to the user of the	It TEX STEX STE	10 TE 10
	dose management system, the risks involved, and	MUT, MUT, MILE	20, 10,
	how to use the system safely. The user shall be made aware that other sources may significantly	A A A	TEN SE
	contribute to their sound exposure, for example	INLIE MILLE MALL	ne me
	work, transportation, concerts, clubs, cinema, car	10 0	at at
Very ale	races, etc.	Life City of the	ir Juri
10.6.5.2	Dose-based warning and requirements	11. 24. 25.	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	CEL JEK JEK ST	11/1/20
	device shall warn the user and require an	, and any an	20.
	acknowledgement. In case the user does not	L at at at	JEST JO
	acknowledge, the output level shall automatically	WILL WILL WALL	ans ans
	decrease to compliance with class RS1.	1 t x	LEK LEY
	The warning shall at least clearly indicate that	15 AU (V	1) (V)



Reference No.: WTF24D05104161R1Y Page 44 of 65

Lie Mili	Mir Mun Alle M	EN IEC 62368-1	Music Miss
Clause	Requirement – Test	Result – Remark	Verdict

	listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	A CH THE THE	LIEX
10.6.5.3	Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.	White whitek whitek whitek	N/A
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	JEK JULIER WHITER WHITER	MATER WA
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	MULIER WHITER WHITER WHITER WHITER	AND THE AND TH
it. Write	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TE WHITE WHITE WATE WA	i mi
10.6.6	Requirements for listening devices (headphones	, earphones, etc.)	N/A
10.6.6.1 MILITER OFF	Corded listening devices with analogue input With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB	Not such equipment	N/A
40.0.0.0	and 27 mV or 100 dB and 150 mV.	at the tit	NI/A
10.6.6.2	Corded listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the ∠Aeq, racoustic output of the listening device shall be ≤ 100 dB with an input signal of -10	IN WALLER WALLER WALLER WALLER WALLER	N/A



Reference No.: WTF24D05104161R1Y Page 45 of 65

	Mig	Mr. Mar All	EN IEC 62368-1	ITEK MITEK MILITER MI	Tie Mury Aury
Cla	ause	Requirement – Test	With Mary All All	Result – Remark	Verdict

A.	dBFS.	LEF JET	J. J. J.	Vr. Plus	24, 24,		-,4
10.6.6.3	Cordless li	stening devices	201.				N/A
	the fixed pri EN 50332-7 - respecting where an ai the equivale - with volur device (for additional s to the comb measured a programme output of the	olaying and trans ogramme simula	tion noise de ansmission sard exists the colume leve e equalizations that maxion the LAeq, rate	tandards, at specifies receiving I control, on, etc.) set imize the mentioned acoustic			STEEK JUNIONE ST
10.6.6.4	_ · · · ·	ent method	et Jet	WILLE MY	in in	ier apr en	N/A
White	Measureme	ents shall be mad 2 as applicable.	le in accorda	ance with			MULL
3	Modification	on to the whole	document				N/A
ULL OF	Delete all the list:	ne "country" note	s in the refer	rence documer	nt according t	o the following	N/A
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	L. 71
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	SEX WILL
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	e Wite
	5.4.2.3.2	1.4 Note 2	5.4.2.5	Note 2	5.4.5.1	Note	20.
	Table 13	ļ.					MALTE.
	5.4.10.2	.1 Note	5.4.10.2.2	Note	5.4.10.2.3	Note	TEX .
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	الله الله عليا
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	VIII.
	8.5.4.2.3	Note	10.2.1	Note 3 and 4 and 5	10.5.3	Note 2	21/2
	75 20		Table 39	ana o			INLTER IN
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	CENT .
	Y.4.5	Note				1	, m
- Lest	(1) (V)	100 20	~	1	4		y 36
ı	Modification	on to Clause 1					N/A



Reference No.: WTF24D05104161R1Y Page 46 of 65

Clause	Requirement – Test	Result – Remark	Verdict
ale .	an an a second	ALTE MET MALE MA	1/11
1 WALTER WA	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	Whitek whitek whitek white	N/A
5	Modification to 4.Z1		N/A
4.21 EF WALTER WALTE	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so installation that installation instructions shall so installation instructions shall so installation that installation instructions shall so installation that installation instructions shall so installation that installation instructions shall so installation installation instructions shall sales in the shall so installation installation installation installation installation installation installation ins	Not directly connected to the mains	E N/A SE EX VINE SE
WHITEK N	installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Whitek whitek whitek whi	ie white
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A

EN IEC 62368-1



Reference No.: WTF24D05104161R1Y Page 47 of 65

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
2/1/2	THE THE THE	The Mark Mark	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. NOTE Z1 Soldered joints and paint lockings are examples of	united united united and ted a	N/A
	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. Moreover, the measurement shall be made under fault conditions causing an increase of the high	TEK WHITEK WHITEK WHITE MATTER WHITEK WHITEK	THEK ON THEK ON
	voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	until mil while w	WILL AUTER OF
LUEK	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	THE THE	- Life ALTE
9	Modification to G.7.1		N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	UNLIEK WALTER	IN/A
10	Modification to Bibliography		N/A



Reference No.: WTF24D05104161R1Y Page 48 of 65

Ġ	The Maria	Mrs. Mar. All	EN IEC 62368-1	TEX WITEX WATER W	Mil Mil a	11.
	Clause	Requirement – Test	VII. MUT. All And	Result – Remark	Verdi	ct

2/1	74. 7.		The same was well	120,
	Add the following note	s for the standards indicated:		N/A
		NOTE Harmonized as EN 6013 NOTE Harmonized as HD 6021		21/1. 1
		NOTE Harmonized as EN 6030		LIE JA
		NOTE some parts harmonized NOTE Harmonized as EN 6060		
		NOTE Harmonized as EN 6066		Ell STE
		NOTE Harmonized as EN 6103		20
		NOTE Harmonized as EN 6150		- JEK
	277	NOTE Harmonized as EN 6156 NOTE Harmonized as EN 6156		MUL
		NOTE Harmonized as EN 6155		154
		NOTE Harmonized as EN 6164		Wer M
		NOTE Harmonized as EN 6164 NOTE Harmonized as EN 6164		16
		NOTE Harmonized as EN 6164		Life WAL
		NOTE Harmonized as EN 6164		
# 16th				J. 19
11	ADDITION OF ANNEX	AV (3 117 N)		N/A
ZB 4.1.15	Denmark, Finland, No	NATIONAL CONDITIONS (E	Not directly connected to the	N/A N/A
NITEK WALTER WALTER WALTER WALTER WALTER WALTER	Class I pluggable equiconnection to other equisafety relies on connection surge suppressors are network terminals and marking stating that the connected to an earther The marking text in the as follows: In Denmark: "Apparate stikkontakt med jord so stikkontakt med jord so stikproppens jord." In Finland: "Laite on lii varustettuun pistorasia In Norway: "Apparatet stikkontakt"	ed mains socket-outlet. e applicable countries shall be ets stikprop skal tilsluttes en om giver forbindelse til tettävä suojakoskettimilla an"	mains Remains Remai	ALTER ON TER WALTER WALTER WALTER WALTER WALTER WALTER
4.7.3	The torque test is perfo	lause the following is added:	MITER WHITE WAITE WHITE	N/A
MULTER		i3, and the plug part shall be nt clauses of BS 1363. Also s annex	t stiff milet mater whi	¥ WALTEN



Reference No.: WTF24D05104161R1Y Page 49 of 65

The Mail	Mir hungaling the	EN IEC 62368-1	Muse Miss
Clause	Requirement – Test	Result – Remark	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	E. Wile
	t at at the other into	with the say in	20.
	A warning (marking safeguard) for high touch	at the left left	TEX.
	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	LIER WILL WALL WALL	21/2 21/
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex	To the end of the subclause the following is added:	No such external circuits.	INA
G	To the end of the subclause the following is added.	Mr. Mr. W.	
	For separation of the telecommunication network	FRE THE STEEL OF	TE NUTE
	from earth the following is applicable:	MULL MULL MAN AND	20.
	If this insulation is solid, including insulation forming	a at at a	t all
	part of a component, it shall at least	alier with white white	Mr.
	consist of either	20, 20	24
	two layers of thin sheet material, each of which	THE THE LIES NATED	in the all
	shall pass the electric strength test below, or	and the man	20, 1
	one layer having a distance through insulation of	of the left	JE .J.
	at least 0,4 mm, which shall pass the electric	WILL MUT, WITH M	20,
	strength test below.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EX TEX
	If this insulation forms part of a comissanductor	LIFET OLIFET WITE WAL	" aller.
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no	4/2 4/1 22	
	distance through insulation requirement for the	at a ret of	LITE .
	insulation consisting of an insulating compound	" " " " " " " " " " " " " " " " " " "	2, 2
	completely filling the casing, so that clearances and	14 114	Cart of
	creepage distances do not exist, if the component	if the pit will	ne, me
	passes the electric strength test in accordance with the compliance clause below and in addition	20, 20, 2	
	The compliance dauge below and in addition	- TEX TEX LITER O	Tie Wille
	passes the tests and inspection criteria of 5.4.8	The Mr. M. M.	
	with an electric strength test of 1,5 kV multiplied	a at at a	the Cart
	by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	NITER MITTER WALL WALL	· ile.
	performed using 1,3 kV),	the state of the s	1
	and	TEX LIER OLIER MILE	Will M
	Little of the section	in my min	
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5	A LEK TEK TEK	NI ET MIT
	kV.	MULL MAL MAR M	1. 20.
	THE RITE WITE WALL MY MY MY	1 1 1 1	CENT TEXT
	It is permitted to bridge this insulation with a	LIER WITE WALL WAS	21/2
	capacitor complying with EN 60384-14:2005, subclass Y2.	211 21	
	Subuldos 12.	TEK TEK TEK STE	Intit .
	A capacitor classified Y3 according to EN 60384-	Note Must the Missian	1000
	14:2005, may bridge this insulation under	at the set set	All the same
	the following conditions:	TE WITE WALL WAL.	11, 11,
	the insulation requirements are satisfied by	70. 7	, t
	having a capacitor classified Y3 as defined by	the TEX STER STER OF	Try Write
	EN 60384-14, which in addition to the Y3	Mer Mr. Mr. M.	, ,
	testing, is tested with an impulse test of 2,5 kV	at at at a	EL CLER
	defined in 5.4.11;	The self will will	11/2



Reference No.: WTF24D05104161R1Y Page 50 of 65

20,	EN IEC 62368-1	is are one and	70. 4.
Clause	Requirement – Test	Result – Remark	Verdict
in.	un un tra	The state of the s	we m
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14; the state of 0.5 levels and 1.5 levels are stated in EN 60384-	Whitek whitek whitek w	NITEK WILLES.
er Tier	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.	in mir one on	
5.5.2.1	Norway After the 3rd paragraph the following is added:	mus mis mis	N/A
WILLER ON	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	White white white	one one
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	CEX JEX JEX NI	er in life and
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	A MUTER MUTER MUTER	WILLER WHILE
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	THE WALLER WALLER	TEK WITEK W
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WALTER WALTER WALTER	White White
5.6.4.2.1	Ireland and United Kingdom	A AT AT	N/A
na m Tex miz Tex miz	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	unite white whitek whi	
5.6.4.2.1	France	HE LIER OUTER WITE	N/A
WALTER V	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	Whitek whitek whitek	UNLIE UNLIEK
5.6.5.1	To the second paragraph the following is added:	WILL WILL MUT AND	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	TEK WALTER WALTER WALT	it was



Reference No.: WTF24D05104161R1Y Page 51 of 65

1101010100	110:: 1111 248001041011111	1 age of or or	
y and	M. W. J.	EN IEC 62368-1	any and
Clause	Requirement – Test	Result – Remark	Verdict

	Troquilotte Tool		
- colo		" Write Write W.	-4/2 - 4/2
5.6.8	Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	MULICE WALTER WALTER	N/A
5.7.6	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	MULTER MULTER MULTER	N/A
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	JEEF WHITEK WHITEK	N/A
5.7.7.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	Not such system.	N/A
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	TER STEE WITER	JEK WITEK
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	ALTER WALTER WALTER	A WALLEY
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	t while while while	JUNITE JUNITE
	Translation to Norwegian (the Swedish text will also	The other with	ner mer



Reference No.: WTF24D05104161R1Y Page 52 of 65

	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
WUTER AU	be accepted in Norway): "Apparater som er koplet til beskyttelsesjord via	MILITER WHITE WHITE	MULTEX.		
	nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	LIEK WHITEK WHITEK WHITEK	WALTER WA		
WALTER WALTER	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."	Whitek whitek whitek whitek	in the way		
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph:	No external circuits.	N/A		
, 1614	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	WHITE MALE WHILE WALL	WAL		
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:	Not directly connected to the mains	N/A		
JUNITER JUNITER	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	Whitek	te whites		
G.4.2	Denmark To the end of the subclause the following is added:	Not directly connected to the mains	N/A		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	Whitek whitek whitek whi	WALTER		
	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 rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	Mit white white white	niek wai niek wai		
Whitek wh	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a	ANTIER WHITE WHITE	MALTEK.		



Reference No.: WTF24D05104161R1Y Page 53 of 65

201	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
antiek wite	plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	White white white white the text of the te	WALTER ON	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	MILE MULTER MULTER MULTER	Whitek of the state of the stat	
	Justification: Heavy Current Regulations, Section 6c	TER WATE WATE WATE	ing and	
0.40		Niek dina din anna da da da da	NI/A	
G.4.2	United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an	Not directly connected to the mains	N/A	
	Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	14. 24. 24.		
G.7.1	United Kingdom	- TEK JET STILL OF	N/A	
oniter and	To the first paragraph the following is added: Equipment which is fitted with a flexible cable or	WALL WILL WAS ANTER WATER	L NIVA	
	cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	TEX WHITEK WHITEK WHITEK	avertek over	
ang 4	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	white white white with	MEX	
G.7.1 WA TEX WALTER WALTER	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use	ALTE WALTER WALLER WALTER	N/A	
DINLIEK W	Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	Milet Milet Whilet While	WALTEK.	



Ρ

Reference No.: WTF24D05104161R1Y Page 54 of 65

	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ale.	WIT THE THE	The still mile will work	41,
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	Whilek whilek whilek whilek	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2 JUNETER WALLER WHITER WALLE	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	No CRT within the equipment.	N/A N/A N/A N/A N/A N/A N/A N/A

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)



Reference No.: WTF24D05104161R1Y Page 55 of 65

Lie Muri	EN IEC 62368-1						
Clause	Requirement – Test	The Mary My May	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	<u>.</u>	<u> </u>
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз ₹∨4-н
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-I
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-I



Reference No.: WTF24D05104161R1Y Page 56 of 65

, Juni	Mr. All All	EN IEC 62368-1	TER WILL MULLE AN	re mer mer
Clause	Requirement – Test	Thur, Th. In.	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy source	es		. Jt	P-	
Supply Voltage	Location (e.g.	Test conditions Parameters			Test conditions	eters		ES Class
vollago	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Oldoo	
5.0Vdc	5.0Vdc The EUT is designed to be supplied by USB	Normal	<60Vdc	4 - 4	SS	DC	ES1	
. Alle		Abnormal	CLIER AND	TE NITTE	11112 - 11	Ve -71/2	(declare	
type-C port	Single fault – SC/OC		* STEF OF	LIEK-	EX -ITEX	MALTER		
9.0Vdc	The EUT is	Normal	<60Vdc	2, -	SS	DC	ES1	
ener whi	designed to be supplied by USB	Abnormal	18th - 178th	WITE WIT	No.	21/10- 21	(declare	
LIEK WALTER	type-C port	Single fault – SC/OC	- 18th	TEK - STEK	NLTEX	uniter whi	EK WALTE	
3.7Vdc	The EUT is	Normal	<60Vdc	70,	SS	DC	ES1	
MULL	designed to be supplied by	Abnormal	10th 10	Et STEE	NITE - N	TIL THE	(declare	
NATIEN MA	Internal Li-ion battery	Single fault – SC/OC	10 - 10 t	TELL C	SEK - OLI	ek - TEK	JALTEK W	

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
7. A	et et	JEH JIEH	Will The	no m	4, 4,
- Write	Mr. Mr. M		et -et	TEK -TEK	alier white white white
Supplemen	ntary information:				
and a	in an an	4.	L 2 2	et det	iter site with water

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Method		: ISO 306 / B50		_		
Object/ Part No./Material	Thickness (mm)	T soften	ing (°C)			
# et let jet o	the war war war	n. 2n - 2.	74 J	et set		
Supplementary information:						
at all the st	WITE WILL WITE WITE	an a	at at	, et		



Reference No.: WTF24D05104161R1Y Page 57 of 65

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

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	oression diame	eter (mm)	:	≤ 2 m	m Nite White	W. C.	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression eter (mm)
7+ .c+	All St	E NITER MITER WALTER	01/27 - 701			, t	it k
Supplemen	tary information	n:					
- LEK-	TEX JEX	SLIEB MILE WALL W	L. 24.	20.	- A A	0	t LEX

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
The wat have a	2 ₁		ىد	d - 10	1561	. C.L. E.E.	wite and	4/1
Supplementary information:								
	Supplementary information: 1) Only for frequency above 30 kHz Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)							

5.4.4.2	.2 TABLE: Minimum distance through insulation								
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)				
et let	B' A' /	Ye 12 - 705		(-)()	- 18 18				
Supplement	tary information:								
*See also su	ub-clause 5.4.4.9	The White All All		et et	JER JER				

5.4.4.9	TABLE: Solid i	TABLE: Solid insulation at frequencies >30 kHz							
Insulation r	material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)		
Life White	Mur. Mur.	-711. A.	- 4	- Et 36	t- liet (CER WITE	There were		
Supplemer	ntary information:								
MALL	Mr. Mr.	20, 20,	et .	LET SEX	NITER ONLY	E. WALTE	West Wife		

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	CHIEF WILL WALL WIN Y	A Th	at at 50	t litt ni
- 24	a state of the same	The write white w	or me me	
Basic/suppl	lementary:	1 1	et let let	ALTER OLIE
- 20,	the set set sets	- with white with	- m m	2, 7
Reinforced:	the Mulie and Mulie and	14 14 18	t Tex Tier "	LITET NALTE OF



Reference No.: WTF24D05104161R1Y Page 58 of 65

EN IEC 62368-1							
Clause	Requirement – Test	Vr. 24	Result – Remark	Verdict			
Mes	M. M. T. C.	CE CLER	ALTER WALL WALL WALL	mr m			
	NIER WIELDSTE WITH AND	, -20, 0,	-	The Table			
Routine Te	ests:	t 64 0	The Walter Mary	The Man			
- 18th - 1	TER LIFE MIT MIN MIN MALL	7/2 7	- L St	at At			
Suppleme	ntary information:						

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
White whi	Mer	MrMr. 2	Normal	TEL TE	NITE MIT	No Time
LIEK MITE	MITER	antiek tiek ant	Single fault: SC/ OC	- m - m	TEK TEK	NITE SIN

Supplementary information:

X-capacitors installed for testing are:

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

5.6.6 TABLE: Re	.6.6 TABLE: Resistance of protective conductors and terminations					
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
+ JEK JEK JE	MITE VILL ME W	20 T	L 74 - 75	18th - 58th		
Supplementary information	on:					
Tel Tel Tel	WILL AVE AND AN		at at	alt set		

5.7.4	TABLE: Unearthed acce	E: Unearthed accessible parts					
Location	Operating and	Supply	ſ	Parameters		ES class	
	fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
- 40	Normal	EX CITE N	دارات الكارات (1)	r. 410, 41	-20,		
	Abnormal: overload		et outet mi	ik whitek whit	* UNLIE	VINITE.	
	Single fault: SC/OC	7/1 - 7/1	TEF STEP	NITER-	WALTER.	un ^{life<u>k</u>}	
Supplemen	ntary information:					'	
	SC/OC	# A	TEN STEP	NUTER AND THE	White.	1	

5.7.5	TABLE: Earthed accessible conductive part			
Supply voltag	ge (V):	- wife wife with whi we we will	_	
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye		

Reference No.: WTF24D05104161R1Y

Page 59 of 65

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

Power Distribution System	[]TN []TT []IT	24. 24.	1 A				
Location	Fault Condition No in IEC Touch cur 60990 clause 6.2.2 (mA)		Comment				
THE OLIFE WITH WALL WALL	Mr. M	Jt Jt	rick rick-ritics and				
Supplementary Information:							
Et iter alter with white	W. Mr. M.		of the text of				

5.8	TABLE	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
TILL WILL	"he	21/2 2	- W	- , et	TEX TIER	WILLE - WILL	Mr. M
Supplementary information:							
LT WALL	21/2	24 24	200	it is	The Clark	TE MILE	are are

6.2.2	TABLE: Power source circuit classifications					
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Input (5VDC 3	BA)	5.0	3	15	5S	PS2
Input (9VDC 3	BA) -	9.0	3	27	5S	PS2
Battery	Normal / Abnormal	3.019	6.3	19.02	5S	PS2

Supplementary information:

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

6.2.3.1	TABLE: Determi	nation of Arcing PIS		at let	N/A		
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No		
1 Tr. Mer.	14 24		JEK JEK	LITE MALIE WALL	- mr m		
Supplement	Supplementary information:						
- m.r.	Mr. M. M.		LIER STEE	TE MILITE WILL	Mrs. Mrs.		

6.2.3.2 TABLE: Determi	nation of resistive PIS		multi an P
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All internal circuit	ALTER WALTER WALTER WALTER	unit unit un un	Yes (declared)

Supplementary information:

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.



Reference No.: WTF24D05104161R1Y Page 60 of 65

La Maria	M M M	EN IEC 62368-1	mr. mr.
Clause	Requirement – Test	Result – Remark	Verdict

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

All conductors and devices are considered as PIS.

8.5.5 TABLE: High	oressure lamp	at at a	EX TEX LITE	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- the text start as	TE - NITE WALTE ON	- m m	- A	d -d+
Supplementary information:				
LET THE THE STE	WITE WALL WALL	24, 24, 2	a st	ek lek si

9.6	TABL	E: Temper	ature meas	surem	ents	s for wirele	ss power	transmitter	s	P
Supply vol	Itage (V).			:	9V	′dc	Clest all	EKINTER	WILLIAM S	_
Max. trans	smit powe	er of transm	nitter (W)	:	15	W	20			_
11, 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1						eiver and contact		iver and at of 2 mm	with receiver and at distance of 5 mm	
Foreign o	objects	Object Ambie		- ,		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel	disc	25.3	25.0	54.3	3	25.0	41.9	25.0	25.3	25.0
Aluminiu	ım ring	25.4	25.0	55.3	3	25.0	42.8	25.0	25.3	25.0
Aluminiu	um foil	25.2	25.0	51.8	8	25.0	44.6	25.0	25.2	25.0
Suppleme	entary info	ormation:								
Suppleme	3/2		25.0	51.8	8	25.0	44.6	25.0		25.2

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements							
Supply volta	age (V)	9Vdc (1)	3.7Vdc (2)	9Vdc (3)	NOTE .	_		
Ambient ten	nperature during test T_{amb} (°C):	See below	See below	See below	٠,6	_		
Maximum m	neasured temperature <i>T</i> of part/at:		T (°C)		Allowed T _{max} (°C)		
Button	in mil mil m	26.0	25.4	35.1	ال بر زا	77		
C23	- LEK TEK TEK MITE	73.1	27.2	62.7	40.	105		
Input wire	my my my	40.8	37.7	48.3	NAC	80		
Battery wire	EX TEX ITEX WITE W	37.7	32.9	37.0	- -	80		
Speaker wir	e w w	40.5	38.4	43.1	JE .	80		
LED wire	TEX TEX STEX STEE WAL	35.2	34.7	40.8	.e-	80		
PCB near U	16 111 111	48.0	45.6	53.7	70/2	105		



Reference No.: WTF24D05104161R1Y

Page 61 of 65

20,				EN IEC 623	68-1			
Clause	Requirement – Test Result – Rema					ult – Remark	- 10	Verdict
Mr.	14. 14.		J 3	A SET	JE .	The WALL	all the	Ve an
Battery bod	y of sor		E. Melle	40.8	32.2	38.7	,	Ref.
Enclosure in	nside near Wirel	ess	, t	52.6	28.2	43.3	anii zani	60
Enclosure c	outside near Wire	eless	MILLE	58.0	27.0	32.5	·	77
Enclosure ii	nside near LED	and Speake	er	26.2	25.6	35.3	ILL MAC	60
Enclosure c	outside near LED	and Speal	ker	25.7	25.5	35.3	y . 	77 3
Ambient	711 24		A .	25.0	25.0	25.0	11/1-	n -n
Temperatur	e T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
- ,4	at at	16th 11th	- 1 ¹	21/2 - 21	2 - 20	7		± - x+

Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 25°C.

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

- (1) means condition 1: Charging condition with empty battery, maximum LED brightness, wireless charging with 15W, Speaker working with 1/8 Max non-clipped output power.
- (2) means condition 2: Discharging condition with fully charged battery, the LED brightness is maximum, Speaker working with 1/8 Max non-clipped output power.
- (3) means condition 3: For alternative PCB layout. Charging condition with empty battery, maximum LED brightness, wireless charging with 15W, Speaker working with 1/8 Max non-clipped output power.

B.2.5	T.	ABLE: In	put test					IN THE THE STATE PIECE
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	TEN.	1.77	3 LIFE WALL	ik wai	ek ure white	WALTE	WITEK	Charging condition with empty battery, maximum LED brightness, Speaker working with 1/8 Max non-clipped output power.
9.0Vdc	4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.64	Martiet o	WLEEK A	nitek vil	ek or	LIEK Wh	Charging condition with empty battery, maximum LED brightness, wireless charging with 15W, Speaker working with 1/8 Max non-clipped output power.
3.7Vdc	LIT EST	0.276	uniter uni	re-un L	June 1 L Vinitely	MULIER	WALTER	Discharging condition with fully charged battery, the LED brightness is maximum, Speaker working with 1/8 Max non-clipped output power.

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



Reference No.: WTF24D05104161R1Y Page 62 of 65

Ġ	EN IEC 62368-1							
	Clause	Requirement – Test	VII. MUT. All And	Result – Remark	Verdi	ct		

B.3, B.4	TABLE: Abnor	mal operating	and faul	t conditi	on tes	ts	**	P,↓
Ambient tem	perature T _{amb} (°	C)			:	23.9	INLIE WALTE WALTE	_
Power source	e for EUT: Man	ufacturer, mod	lel/type, o	utputratin	g:	-	t at at	_
Component No.	t Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	
U3 pin 1-2	SC SC	9VDC	10mins	MALTEK.	JALTE!	uni.	Unit shut down immedia damage, no hazards. Input current: 0A.	ately, No
U3 pin 1-8	SC	9VDC	10mins	PLTE! W		NATE X	Unit shut down immedia damage, no hazards. Input current: 0A.	ately, No

Supplementary information:

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

- 1) SC: Short-circuited; OC: open-circuited; OL: 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.

M.3	TABLE: Pro	otection circu	its for l	batterie	s provide	d wit	hin t	he equip	ment	Р
ls it possible	to install the	battery in a rev	erse po	olarity p	osition?	:	10.	١	10	. –
					C	Charg	ing			
Equipment S	Specification		Volta	ige (V)					Current (A)	
		9.0		A CLIER	نامان	3.0		111, 1		
					Battery	/ spe	cifica	tion		
		Non-recharge	eable ba	atteries			Red			
		Discharging	entional	(Char	ging		Discharging	Reverse	
Manufacturer/type		current (A)	charging current (A)		Voltage	(V)	Cur	rent (A)	current (A)	charging current (A)
BJY 18650	- 24cz	10, - 20,		,+ ,	3.7	-	ge 0	.246	0.034	, alon
Note: The tes	sts of M.3.2 a	re applicable c	only who	en abov	e appropri	iate d	lata i	s not ava	ilable.	
Specified bat	tery tempera	ture (°C)						NITER N	0-50	
Component No.	Fault condition	Charge/ discharge mo		Test time	Temp. (°C)		rent A)	Voltage (V)	Obse	ervation
U3 pin 1-2	SC	Charge mod	de 7	hours	n _{r.} m	($\sigma_{n_{\omega}}$	\bar{z}_n	NL, NS, NE	, NF
U3 pin 1-8 SC Discharge mode		ode 7	hours	A+ X	<i>i</i> (0 (6)	- <u></u>	NL, NS, NE	E, NF	
Supplementa	ry informatio	n:								
Abbreviation:	SC= short c	ircuit; OC= ope	en circu	iit NL= r	o chemica	al leal	kage	; NS= no	spillage of lic	uid; NE=

¹⁾ Supply by external DC source,



Reference No.: WTF24D05104161R1Y

Page 63 of 65

Le Mr	Clause Possirement Test Possilt Pemark Vardiet		he are
Clause	Requirement – Test	Result – Remark	Verdict

no explosion; NF= no emission of flame or expulsion of molten metal.

M.4.2	TABLE		feguards for	equipment c	ontaining a	secondary lithium	P
Maximum	specified	charging voltage	e (V)		: 3.7	mr mr a	_
Maximum	specified	charging curren	t (A)		: 1.2	TEX SEX S	_
Highest s	pecified ch	arging temperat	ure (°C)		: 65	me me m	
Lowest sp	ecified cha	arging temperati	ure (°C)		: 0	THE THE WITE	
Battery			Observation	n			
manufact	urer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Lowest sp	ecified cha	arging temperati	ure:		Let 16	K LIEK NITER IN	TE. O
BJY 1865	O WALTER	Normal	white street	0.246	0	The charging voltage does not exceed 3.7V and the charging current does not exceed 1.2A.	
BJY 1865		Single fault – (U3 pin 1-2 SC)	3.7	0.246	white w	The charging voltage does not exceed 3.7V and the charging current does not exceed 1.2A.	
Highest s	pecified ch	arging temperat	ure:	in in	- 7	1	z#
BJY 1865	0 412	Normal	3.7	of 0.04	65,50	Stop charging.	11/2
BJY 1865	O LIEK	Single fault – (U3 pin 1-8 SC)	3.7 mil	0	65	Stop charging.	

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	.1 TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (VA)			
Circuit	Condition	O _{oc} (V)		Meas.	Limit	Meas.	Limit		
- ''	t At At	JEK -NIE	white w	The The	24 - 1				
	mr -m	- ,,		* -(E*	N TIPE IN	TER STEEL	اس تنامل		

Supplementary Information:

SC = short circuit, OC = open circuit



Reference No.: WTF24D05104161R1Y

Page 64 of 65

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

T.2, T.3, T.4, T.5	TABLE: Sto	eady force tes	st white			the the time while while	
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	
Enclosure (T.4)	Plastics*	1.5	nii - w	100	5	Enclosure remained intact, no crack/opening developed	

Supplementary information:

T.8

*See table 4.1.2 enclosure materials. Test was performed for all sources of enclosure material.

T.6, T.9	ABLE: Impac	ct test	, t	et.	et.	TEX	LIEK .	NITES .	N/A
Location/Part	Material	Thickness (mm)	Height (mm)			Obser	vation		
, 'n' ,	- A	At Alt	-cre k nov	C. WILL	Will	Mer	21/2	24	
Supplementary information:									
10. 1	Supplementary information.								

NA . t			
Material Th	nickness (mm)	Height (mm)	Observation
Plastics*	1.5	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
nformation:			
1	Plastics*	Plastics* 1.5	Plastics* 1.5 1000 nformation:

Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.
Supplementary	information:				
*See table 4.1.	2 enclosure n	naterials Test was	nerformed fo	or all source	es of enclosure material

X	TABLE: Alternati	ve method for determini	ng minimum clearances	distances	N/A
Clearance d	listanced between:	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
- 71/15 7	n. m. m.	1 1 - 18th 55	t alter mile anile	MULL ME.	me
Supplement	tary information:				
me m	1n 2n	A AN ANT	THE STATE WITE	unit whi	21/2 21

TABLE: Stress relief test



Reference No.: WTF24D05104161R1Y Page 65 of 65

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

4.1.2	TABLE: Critical comp	ABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹			
Plastic enclosure	PETROCHINA CO LTD JILIN PETROCHEMICAL CO	0215A	HB, 60°C, Min. thickness 1.5mm	UL 94	UL E243093			
PCB	Various	Various	V-0, 130°C	UL 94, UL 796	UL-			
Internal wire	Various	Various	Min. 30V, Min. 80°C, Min. 26AWG, VW-1	UL 758	UL SIL			
Li-ion Battery	Dongguan Baijiaying Electronic Technology Co., Ltd.	BJY 18650	3.7Vd.c., 1200mAh, 4.44Wh	IEC 62133- 2:2017+A1:202 1	IEC Report DSP230212 65-1			

Supplementary information:

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





Page 1 of 5

Photo Documentation



Figure 1 Overall view



Figure 2 Overall view



Page 2 of 5

Photo Documentation



Figure 3 Internal view



Figure 4 Internal view



Page 3 of 5

Photo Documentation

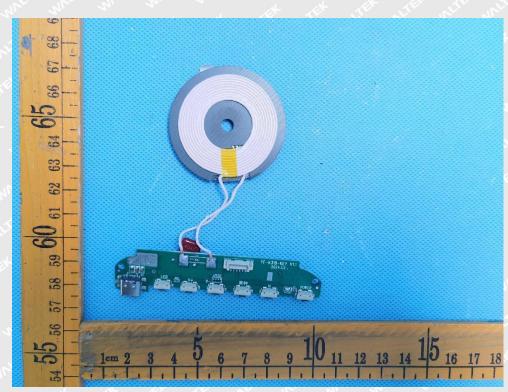


Figure 5 PCB trace view

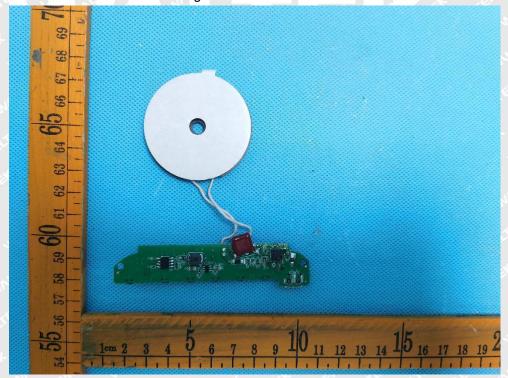


Figure 6 PCB trace view



Page 4 of 5

Photo Documentation

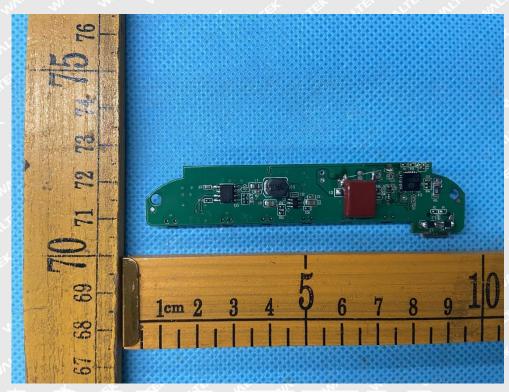


Figure 7 Alternative PCB trace view

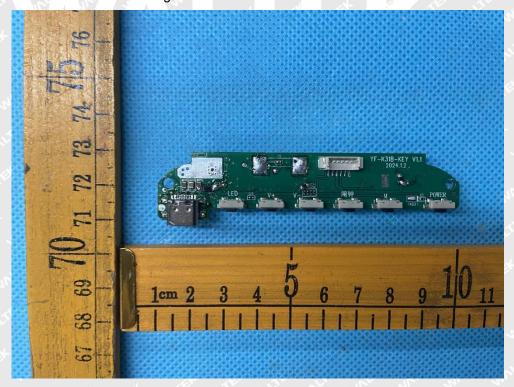


Figure 8 Alternative PCB trace view



Page 5 of 5

Photo Documentation

Reference No.: WTF24D05104161Y



Figure 9 Battery view

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