



TEST REPORT

Reference No	L:	WTF23D01000398R1Y

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

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

Hong Kong

Manufacturer..... : 109979

Address.....: --

Product.....: TWS earbuds with charging box

Model(s)..... : MO9754

Total pages : 68 pages and 8 pages of photo.

Standards.....: \(\times\) EN IEC 62368-1: 2020+A11: 2020

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2023-12-11

Date of Test.....: 2023-12-11 to 2023-12-15

Date of Issue..... 2023-12-18

Test Result.....: Pass

Remarks:

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

Prepared By:

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Compiled by:

Glen Luo / Project Engineer

Approved by:

Almon zhao/ Designated Reviewer



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Test item description:	TWS earbud	s with charging box			
Trademark	МОВ				
Model and/or type reference:	MO9754				
Rating(s):	Input: 5VDC, 300mA Max. Earbud battery: 3.7V, 35mAh, 0.1295Wh Charging box battery: 3.7V, 250mAh, 0.925Wh				
Remark:	et let	THE WILLE WHILE WHILE WHILE WHILE WHEN			
Whether parts of tests for the product h	ave been sub	contracted to other labs:			
☐ Yes ⊠ No					
If Yes, list the related test items and lab	information:				
Test items:					
Lab information:	THE WALL	in the sale sale sale			
Summary of testing:					
This report based on the previous repo	rt no: WTF23E	001000398Y, added M.4 test.			
Tests performed (name of test and to - EN IEC 62368-1: 2020+A11: 2020	let set	Testing location: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China			
The submitted samples were found to the requirements of above specification		Trought Town, Bongguan Ony, Guanguong, Onina			
Summary of compliance with Nation	al Differences	s (List of countries addressed):			
Write Much Much Man Miles					
EU Group Differences					
RETER THE ME AND ST					
☐ The product fulfils the requirements	of EN IEC 623	368-1:2020+A11:2020.			
Use of uncertainty of measurement	for decisions	on conformity (decision rule) :			
No decision rule is specified by the applicable limit according to the specified.	ne IEC standa cification in the	rd, when comparing the measurement result with the at standard. The decisions on conformity are made nple acceptance" decision rule, previously known as			
☐ Other: (to be specified, for example requirements apply)	e when require	ed by the standard or client, or if national accreditation			
OD-5014 for test equipment and application IECEE.	calculated by ation of test m	the laboratory based on application of criteria given by lethods, decision sheets and operational procedures of of measurement uncertainty principles and applying			
the decision rule when reporting tes	st results with	in IECEE scheme, noting that the reporting of the necessary unless required by the test standard or			

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

the testing.





Copy of marking plate:

Frequency Range: 2.4-2.48GHz
Earbud Input: 5V 40mA MAX
Charging Box Input: 5V 300mA MAX
Maximum RF Power: 20dBm (EIRP)

MOB
PO BOX 644,
6710 BP (NL)
Made in China

MO9754
PO 41-110516

Remark

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



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TEST ITEM PARTICULARS:	he me in the state
Product group	⊠ end product □ built-in component
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	☐ UK: 13 A; Others: 16 A; Location: ☐ building ☐ equipment ☑ N/A
Equipment mobility:	 movable direct plug-in stationary for building-in wall/ceiling-mounted SRME/rack-mounted other:
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⋈ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ ☐
Access location	N/A ☐ restricted access area☐ outdoor location☐
Pollution degree (PD):	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°C Outdoor: minimum°C
IP protection class:	⊠ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	⊠ 0.045kg



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POSSIBLE TEST CASE VERDICT	S: The state of		
- test case does not apply to the tes	t object: I	V/A	LIER MITER WITE MITE WALL
- test object does meet the requirem	nent: I	P (Pass)	
- test object does not meet the requi	irement: I	F (Fail)	EX NITE WITE WILL MILL W
TESTING:	EL WILL WILL	200 200	the state of
Date of receipt of test item	: 9	See cover pag	e with the me
Date (s) of performance of tests	:	See cover pag	e de la
GENERAL REMARKS:	A 14 .	JEK STER	WILL MILL MULL AND AND
"(see Enclosure #)" refers to addition "(see appended table)" refers to a t	able appended to the	e report.	ter white white white white
Throughout this report a com		ed as the deci	mal separator.
GENERAL PRODUCT INFORMAT	TON:	LIFE WIFE	while wife when my an
 The maximum operating tempera All technical test data are based terminal type (USB type-C). The M. Report Revision History: 	on the original repor		23D01000398Y, but changed the DC 4.2).
Report No.	Modification Des	cription	Comment
Ref. No. WTF23D01000398Y, dated 2023-02-03	Original test report	ALTE TO	- mri mi mi m
Ref. No. WTF23D01000398R1Y, dated 2023-12-18 (updated report)	Changed the DC to The M.4 test was 6		THE THE STEE STEE SHIP
Model Differences	THE MALLE MALL	Whi. W.	white whitek whitek whitek
N/A	Mr. Mr.	14, 14,	the second second
Additional application considera assembly)	ations – (Considera	tions used to	test a component or sub-



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Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A	N/A
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS1: <15 Watt circuits	PCB	N/A	N/A	N/A
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A
7	Injury caused by hazardous s	ubstances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A of the state o	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part Safeguards			
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED for indicating	Ordinary	N/A	N/A	N/A



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	ENERGY SOURCE DIAGRAM						
Indicate which er	Indicate which energy sources are included in the energy source diagram. Insert diagram below						
A 14		TER OLIFE	Mr.	ne m n			
MILL MALL	□ ES	☐ PS	☐ MS	□ TS □ F	RS		
	See details in OVEI	RVIEW OF	ENERGY S	OURCES AND SA	FEGUARDS		



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The way	The Area Area in	IEC62368-1	LITER NATION WALTER AND	THE MUTTER MUTTER
Clause	Requirement – Test	Mury Mr. M.	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P
		(0	
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	√P <
	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	UNLT PUN LIEK WALT EK WALTEK
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W. B. W
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	P I
4.4.3.1	General	- 1 M. M.	Р
4.4.3.2	Steady force tests	(See Annex T.2 and T.4)	LIFE PINT
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	CE THE STEE WITER ON	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
in with	Glass impact test (1J)	LIER WITE WALTE WALTE	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 of 4.4.3.2, 4.4.3.3,4.4.3.4, 4.4.3.8, no safeguard damaged.	WP WITEK
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	at at at att	EF PIE
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P



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<u> </u>	IEC62368-1		N/ 11 /
Clause	Requirement – Test	Result – Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
Stell S	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors	See below	Р
EK STE	Fix conductors not to defeat a safeguard	at let let liet	C ^C P
-20,	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socke	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	TEX STEX STEE MATE	N/A
4.8	Equipment containing coin/button cell batteries	Mr. Mr. M. M.	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	et let liet liet i	N/A
4.8.3	Battery compartment door/cover construction	m m m	N/A
MITE IN	Open torque test	TEN TEN STER STEEL STEEL	N/A
4.8.4.2	Stress relief test	Mr. An An	N/A
4.8.4.3	Battery replacement test	THE NUTER AND THE	N/A
4.8.4.4	Drop test	1 1 1 1	N/A
4.8.4.5	Impact test	THE SLIP WITH WALLE	N/A
4.8.4.6	Crush test	W W	N/A
4.8.5	Compliance	* "HITE" WITE WHITE WA	N/A
e de la companya della companya della companya de la companya della companya dell	30N force test with test probe	The state of	N/A
Mr. M	20N force test with test hook	Write Murit Murit Muri	N/A
4.9	Likelihood of fire or shock due to entry of cond	uctive object	Р
4.10	Component requirements	WITE WILL MALL MALL	N/A
4.10.1	Disconnect Device	at the set set	N/A
4.10.2	Switches and relays	mur mer mer of	N/A
5	ELECTRICALLY-CAUSED INJURY		JIP
5.2	Classification and limits of electrical energy sou	rces	Р
5.2.2	ES1, ES2 and ES3 limits	WILL MULL MULL MULL	Р
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



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20	IEC62368-1	or our one one.	12. 2.
Clause	Requirement – Test	Result – Remark	Verdict
alie 1	of the state of	Et Will Will M	s 14.
5.2.2.7	Audio signals	10, 20,	N/A
5.3	Protection against electrical energy sources	. NITER INLIES WHITE WHI	JIL P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	TEX STEX NUTEX MUTEX	MALTER
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	the sail of	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	TEX MULTER WHITE AND THE A	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	PI PI
	Accessibility to outdoor equipment bare parts	alier miles anire mais	N/A
5.3.2.2	Contact requirements	an a the	N/A
ici whi	Test with test probe from Annex V	LIEL MILE WALTER WALTE	s —
5.3.2.2 a)	Air gap – electric strength test potential (V)	a de la de	N/A
5.3.2.2 b)	Air gap – distance (mm)	ET WALLE MALLE WALLE	N/A
5.3.2.3	Compliance	at at at a	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	A THE SE	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The Title	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	Р
5.4.1.5	Pollution degrees	THE WALL WALL WALL WA	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	SLIER NATER MALER WALL	N/A
5.4.1.5.3	Thermal cycling test	The state of the s	N/A
5.4.1.6	Insulation in transformers with varying dimensions	NITER INITER WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	s at at at	N/A
5.4.1.8	Determination of working voltage	THE WALL WALL WALL W	N/A
5.4.1.9	Insulating surfaces	and the second	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Must must mist and	N/A
5.4.1.10.2	Vicat test	WILL MILE MULL MULL	N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	LIET MILE WILL MILE	N/A
5.4.2.1	General requirements	s at at at	N/A
747 Z	Clearances in circuits connected to AC Mains, Alternative method	White will man an	N/A
5.4.2.2	Procedure 1 for determining clearance	CIEN STEE OLIES ONLY	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
July 1		EL MULL MULL MULL	71/2 71/2	
- 15 ¹⁰	Temporary overvoltage		4 -	
5.4.2.3	Procedure 2 for determining clearance	MUTTE WILL MUTE	N/A	
5.4.2.3.2.2	a.c. mains transient voltage		CEN -	
5.4.2.3.2.3	d.c. mains transient voltage	WILL MALL MULL M	_	
5.4.2.3.2.4	External circuit transient voltage	at at all a	56th —	
5.4.2.3.2.5	Transient voltage determined by measurement	in mir mer me		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	A MITER WAITER WALTE	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	strek strek whitek	N/A	
5.4.2.6	Clearance measurement	All An A	N/A	
5.4.3	Creepage distances	LIEF WITE WITE W	N/A	
5.4.3.1	General	, t	N/A	
5.4.3.3	Material group	Ex write while whi	n -	
5.4.3.4	Creepage distances measurement	A ST ST	N/A	
5.4.4	Solid insulation	Will Mury Mur	N/A	
5.4.4.1	General requirements	At 18th	N/A	
5.4.4.2	Minimum distance through insulation	The sure of	N/A	
5.4.4.3	Insulating compound forming solid insulation		N/A	
5.4.4.4	Solid insulation in semiconductor devices	ry, Myr, Myr, Mr.	N/A	
5.4.4.5	Insulating compound forming cemented joints	the Text Steph Street	N/A	
5.4.4.6	Thin sheet material	me me m	N/A	
5.4.4.6.1	General requirements	THE LIES NITES	N/A	
5.4.4.6.2	Separable thin sheet material	me m m	N/A	
The MULL	Number of layers (pcs)	ITEK STEEK STEEK ST	N/A	
5.4.4.6.3	Non-separable thin sheet material	1. M. 20. A.	N/A	
WILL	Number of layers (pcs)	IEF SLIEF WILL MA	N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	- Tet Tet Tel	N/A	
5.4.4.6.5	Mandrel test	mi my my	N/A	
5.4.4.7	Solid insulation in wound components	TEX LIEX SLIFE	N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	of the top	N/A	
t Tex	Alternative by electric strength test, tested voltage (V), K _R	The west	N/A	
5.4.5	Antenna terminal insulation	WHITE WALL WALL	N/A	
5.4.5.1	General	1 4 4	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict
Oladoc	Trequirement Test	result remark	Volunt
5.4.5.2	Voltage surge test	711 711 711	N/A
5.4.5.3	Insulation resistance (MΩ)	CLIER WITE WALLE	N/A
all S	Electric strength test	7" t at	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	Write Mir Mir A	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TEK MUTER MUTER MU	N/A
5.4.8	Humidity conditioning	t tet tet stet ste	N/A
CER N	Relative humidity (%), temperature (°C), duration (h)	THE THE TEXT	
5.4.9	Electric strength test	white with any	N/A
5.4.9.1	Test procedure for type test of solid insulation	at let let	N/A
5.4.9.2	Test procedure for routine test	in me me	N/A
5.4.10	Safeguards against transient voltages from external circuits	EX MITEL MILLER WILL	N/A
5.4.10.1	Parts and circuits separated from external circuits	at at the	N/A
5.4.10.2	Test methods	MULL MULL MULL	N/A
5.4.10.2.1	General	At A SET	N/A
5.4.10.2.2	Impulse test	- 1 m 1	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	white with me	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	MITEL MITEL WALTER	N/A
5.4.11.2	Requirements		N/A
it in	SPDs bridge separation between external circuit and earth	NITE WALLE WALL W	N/A
	Rated operating voltage U _{op} (V)	IEK OLIEK UNLIET WHI	_ n ₂
(EX	Nominal voltage U _{peak} (V)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
Mur M	Max increase due to variation ΔU _{sp}	WILL WALL WALL	The -
TEK 1	Max increase due to ageing ΔU _{sa}	A ct ct	TEX -
5.4.11.3	Test method and compliance	WILL MULL MULL	N/A
5.4.12	Insulating liquid	at all all	N/A
5.4.12.1	General requirements	The Mer Mer M	N/A
5.4.12.2	Electric strength of an insulating liquid	at all all of	N/A
5.4.12.3	Compatibility of an insulating liquid	Mur. Mr. M.	N/A
5.4.12.4	Container for insulating liquid	it it it	N/A



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Clause	Requirement – Test	the Maria Maria	Result – Remark	Verdict	

5.5	Components as safeguards	711. 22	N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	THE LIER NITER MITE	N/A
5.5.2.1	General requirement	We are any	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEX MULTER MULTER MULTER V	N/A
5.5.3	Transformers	t tet tet stet stet w	N/A
5.5.4	Optocouplers	Mr. Mr. Mr. Mr. W.	N/A
5.5.5	Relays	TEX STEX SITES ONLY	N/A
5.5.6	Resistors	m m m	N/A
5.5.7	SPDs	THE THE STIFF WITE	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	et ret ret riet	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	The the the	N/A
1/12 1	RCD rated residual operating current (mA)	WALL MALL MAY MAY	_
5.6	Protective conductor	at the title	N/A
5.6.2	Requirement for protective conductors	The sur sur	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	The The The	N/A
5.6.3	Requirement for protective earthing conductors	* TEX STEX SITES OF	N/A
	Protective earthing conductor size (mm²)	Mr. M. M.	_
MULTER W	Protective earthing conductor serving as a reinforced safeguard	MILIER WALTER WALTER WALT	N/A
LIFE WAL	Protective earthing conductor serving as a double safeguard	LIER WHITER WHITER WHITER	N/A
5.6.4	Requirements for protective bonding conductors	at the test	N/A
5.6.4.1	Protective bonding conductors	it will will my a	N/A
CLER	Protective bonding conductor size (mm²)	- It let let i	ş —
5.6.4.2	Protective current rating (A)	MUTT, MUT, MUT, AND	N/A
5.6.5	Terminals for protective conductors	THE THE THE STE	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	The sure of the tex	N/A
* \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Terminal size for connecting protective bonding conductors (mm)	The man man on .	N/A
5.6.5.2	Corrosion	EL WILL MULLE MULLE AN	N/A
5.6.6	Resistance of the protective bonding system	A A A	N/A
5.6.6.1	Requirements	ALTER MITE MALL MALL	N/A



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	IEC62368-1	The wife wife and	
Clause	Requirement – Test	Result – Remark	Verdict
Me	THE STATE OF	ET WITH WILL MY W	200
5.6.6.2	Test Method		N/A
5.6.6.3	Resistance (Ω) or voltage drop	CULTER MALIE MALL MALL	N/A
5.6.7	Reliable connection of a protective earthing conductor	TEL STEEL STEEL STEEL	N/A
5.6.8	Functional earthing	in the second	N/A
MILL	Conductor size (mm²)	TEX SLIER WITE WHILE S	N/A
, E.K	Class II with functional earthing marking	w w	N/A
MULL	Appliance inlet cl &cr (mm)	CLIEB MITE WALL WA	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	WITE WALL WALL MALE	N/A
5.7.2.1	Measurement of touch current	a st set set	N/A
5.7.2.2	Measurement of voltage	LIFE WALL WALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	EX NUTEX INCTEX IN	N/A
5.7.4	Unearthed accessible parts	70 7	N/A
5.7.5	Earthed accessible conductive parts	CHIEF WITH WALL WALL	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	at a little with	N/A
st si	Protective conductor current (mA)	7 7 7	N/A
ane.	Instructional Safeguard	TE ALTE MILL WALTE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	* Tek Tek Nifek W	N/A
5.7.7.1	Touch current from coaxial cables	The sur sur sur	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	MULTER WALTER WALTER WALT	N/A
5.7.8	Summation of touch currents from external circuits	NITER WHITER WHITER	N/A
Y WITE	a) Equipment connected to earthed external circuits, current (mA)	et aliet allet milet	N/A
MUTEK	b) Equipment connected to unearthed external circuits, current (mA)	- Tet itet itet ei	N/A
5.8	Backfeed safeguard in battery backed up supplies		
LITE MY	Mains terminal ES	No battery used	N/A
	Air gap (mm)	Me Me Me Me	N/A

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



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<u> </u>	IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P. P. C. WALLER
6.2.3	Classification of potential ignition sources	See the following details.	CIEN POL
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	JUNE P.
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	TEX TOPLE
	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions of the state	P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	Marite marite	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE MITE WILLE WALTER	N/A
6.4.3.1	Supplementary safeguards	t at alt alt is	N/A
6.4.3.2	Single Fault Conditions	Mary Aut Aug M	N/A
CLIFER OF	Special conditions for temperature limited by fuse	LEK TEK TEK ALTE	N/A
6.4.4	Control of fire spread in PS1 circuits	mer me m	Р
6.4.5	Control of fire spread in PS2 circuits	TEX TEX LIEX NUTER	N/A
6.4.5.2	Supplementary safeguards	ing the the	N/A
6.4.6	Control of fire spread in PS3 circuits	the other little suiter of	N/A
6.4.7	Separation of combustible materials from a PIS	41. 41. 41.	N/A
6.4.7.2	Separation by distance	tiet nite mile whi	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A



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4.	IEC62368-1	or the the the	y
Clause	Requirement – Test	Result – Remark	Verdict
6.4.8.3.2	Fire barrier dimensions	No aposific barrier provided	N/A
	A CONTRACTOR OF THE PROPERTY O	No specific barrier provided.	*
6.4.8.3.3	Top openings and properties	No top opening	N/A
04004	Openings dimensions (mm)	No Common Security	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
IER TER	Openings dimensions (mm)	the set out with	N/A
- EK	Flammability tests for the bottom of a fire enclosure	y my my my m	N/A
2012 1	Instructional Safeguard	THE MITTER WILL MA	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
no in	Openings dimensions (mm)	Write While Whis Mark	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	the the the	N/A
6.5	Internal and external wiring	t tet iter alter out	Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P. WALTER
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	Р
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to a	dditional equipment	Р
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р
7.2	Reduction of exposure to hazardous substance	es tell nutte muit muit	N/A
7.3	Ozone exposure	W W	N/A
7.4	Use of personal safeguards or personal protec	tive equipment (PPE)	N/A
TEX	Personal safeguards and instructions		_
7.5	Use of instructional safeguards and instruction	is while while while while	N/A
CEL S	Instructional safeguard (ISO 7010)	A ST ST ST	_
7.6	Batteries and their protection circuits	Marie Marie Mari Mari	Р
8	MECHANICALLY-CAUSED INJURY	L A A A	Р
8.2	Mechanical energy source classifications	a at at at	OF PO
8.3	Safeguards against mechanical energy sources	ter nutite Aut Aut Au	Р
8.4	Safeguards against parts with sharp edges and corners		Р



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Troquilement – Test	TOOUIT - NOTHAIN	Verdict
8.4.1	Safeguards	W W W	Р
mr. m	Instructional Safeguard:	MS1: Edges and corners of enclosure	W. P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	MALT P
8.5	Safeguards against moving parts	at the text start	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
24 V	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
ines in	Moving MS3 parts only accessible to skilled person	ALTER MITE MALIE WALL	N/A
8.5.2	Instructional safeguard:	The state of the s	N/A
8.5.4	Special categories of equipment containing moving parts	THE MALLE WALL WALL	N/A
8.5.4.1	General	EX SITES INSTER WHITE WI	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	20 2 × 2	N/A
8.5.4.2.1	Protection of persons in the work cell	NITER WITE WALL WALL	N/A
8.5.4.2.2	Access protection override	The state of the s	N/A
8.5.4.2.2.1	Override system	The sure sure	N/A
8.5.4.2.2.2	Visual indicator	The fift	N/A
8.5.4.2.3	Emergency stop system	The water was a	N/A
WALTER	Maximum stopping distance from the point of activation (m)	A WILLER MULTER MULTER MIN	N/A
.uni.TEX .uni	Space between end point and nearest fixed mechanical part (mm)	LIER DIER WILER MILE	N/A
8.5.4.2.4	Endurance requirements	on the state of	N/A
The Mark	Mechanical system subjected to 100 000 cycles of operation	NITER WHITE WHITE WHITE	N/A
er white.	- Mechanical function check and visual inspection	EL STELL STEEL WITE W	N/A
	- Cable assembly:	70. 70. 7	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	White white white whi	N/A
8.5.4.3.1	Equipment safeguards	TEX TIER WITE WITE	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	Me My My	N/A
8.5.4.3.3	Disconnection from the supply	TEX STER WITE WAITE	N/A
8.5.4.3.4	Cut type and test force (N)	100 20 24	N/A
8.5.4.3.5	Compliance	THE WALTE WALTE WALTE	N/A
8.5.5	High pressure lamps	No high pressurelamps used.	N/A
21/2 21/2	Explosion test	WITE WILL WALL WALL	N/A



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Clause	Deguirement Teet	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.5.5.3	Glass particles dimensions (mm):	With the sure of	N/A
8.6	Stability of equipment	CLIEB MITE WHITE WAS	N/A
8.6.1	General	MS1: Mass of the unit	N/A
Vr. 211	Instructional safeguard	niter white white white	N/A
8.6.2	Static stability	at left test test	N/A
8.6.2.2	Static stability test	it must must more	N/A
8.6.2.3	Downward force test	t fet fet stet	N/A
8.6.3	Relocation stability	Mer Mer My My	N/A
INLIES OF	Wheels diameter (mm):	TER STER STER OUT	_
	Tilt test	The Me of the	N/A
8.6.4	Glass slide test	LIET SLIER WITER SPLIE	N/A
8.6.5	Horizontal force test:	- 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	WITE WALL MALL WA	N/A
TEX	Test 1, additional downwards force (N):	the state of	N/A
17. 10.	Test 2, number of attachment points and test force (N)	The function of	N/A
MUL	Test 3 Nominal diameter (mm) and applied torque (Nm)	TEL WILLE WILL WILL	N/A
8.8	Handles strength	EX LIEX NITER WITER OF	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	LITER OUTER WALTER WAL	N/A
	Number of handles:	24 24 34	_
	Force applied (N):	ALTER MITER WALTE WALTE	anger —a
8.9	Wheels or casters attachment requirements	i de de det	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	e at at at	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	WILL MULL MULL AND	N/A
8.10.3	Cart, stand or carrier loading test	the state of	N/A
Mur	Loading force applied (N)	LIER MILL WALL WALL	N/A
8.10.4	Cart, stand or carrier impact test	e st st st	N/A
8.10.5	Mechanical stability	MULL MULL MULL	N/A
TEX	Force applied (N):	A ct ct	CE SER



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		368-1	1
Clause	Requirement – Test	Result – Remark	Verdict
3/12	The The Table	THE STEE STATE STATE	The The
8.10.6	Thermoplastic temperature stability	711	N/A
8.11	Mounting means for slide-rail mounted equ	uipment (SRME)	"N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	TEX WITE WHITE WHITE W	N/A
EK JE	Instructional Safeguard	i	N/A
8.11.3	Mechanical strength test	The water with war	N/A
8.11.3.1	Downward force test, force (N) applied	······································	N/A
8.11.3.2	Lateral push force test	white white white white	N/A
8.11.3.3	Integrity of slide rail end stops	IN LET THE CHIEF	N/A
8.11.4	Compliance	Will Mur Mur Mur.	N/A
8.12	Telescoping or rod antennas	et set set stet stet e	N/A
	Button/ball diameter (mm)	: No such parts	_

9	THERMAL BURN INJURY		Р	
9.2	Thermal energy source classifications Touch temperature limits		P	
9.3			Р	
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	nii P	
9.3.2	Test method and compliance	See B.1.6 & B.2.3	JE P J	
9.4	Safeguards against thermal energy sources	s and and any	Р	
9.5	Requirements for safeguards		P	
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P MILITER	
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A	
9.6	Requirements for wireless power transmitte	ers the street with the	N/A	
9.6.1	General	No wireless power transmitters	N/A	
9.6.2	Specification of the foreign objects	ALTE TALLE MALL MALL MAN	N/A	
9.6.3	Test method and compliance		N/A	

10	RADIATION		Р
10.2	Radiation energy source classification	LIER RITE WALL WALL OF	P. P.
10.2.1	General classification	See below	OF Part
m.	Lasers	er write write white wh	_
NALTEX NI	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low	_



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T.F. MUTT	Mrs. Mar Alle	IEC62368-1	Lifer wifer while w	THE MULL MITTER
Clause	Requirement – Test	HELLE MACE ME IN	Result – Remark	Verdict

A-	ex let let life with wint win	power application.	
الار يماري	Image projectors:	TEX STEE STEE SINTS	_
٠	X-Ray:	They have all the	
rie ani	Personal music player	itel alter mitte uniter	
10.3	Safeguards against laser radiation	the All to the	N/A
Whi.	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	υP
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	WINE P
TEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	STEET MITES MALTEST MALTEST	N/A
t Jet	Risk group marking and location:	1 1 st st	N/A
27/2	Information for safe operation and installation	E UNITE MULT MILL MILL	N/A
10.4.2	Requirements for enclosures	at at the s	N/A
m. a	UV radiation exposure	White Mail and and	N/A
10.4.3	Instructional safeguard	THE STATE	N/A
10.5	Safeguards against X-radiation	The sure of	N/A
10.5.1	Requirements	No X-radiation	N/A
100	Instructional safeguard for skilled persons	in my my m	_
10.5.3	Maximum radiation (pA/kg)	y tet tet with all	
10.6	Safeguards against acoustic energy sources	Mr. Mr. M. L.	Р
10.6.1	General	TEX LIEX OLIVE MITE	P
10.6.2	Classification	Headphones: RS1	Р
it and	Acoustic output L _{Aeq,T} , dB(A)	See EN 50332-2 test report No.: WTF23X01007220Y.	Marie Pul
WALTER	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
- CIER	Digital output signal (dBFS)	e of let let it	N/A
10.6.3	Requirements for dose-based systems	Mury Mur Mur Mir	N/A
10.6.3.1	General requirements	Jet Jet Jet Stet	N/A
10.6.3.2	Dose-based warning and automatic decrease	mer mer mer on	N/A
10.6.3.3	Exposure-based warning and requirements	get get lifet alifet	N/A
	30 s integrated exposure level (MEL30)	24 24 24 24 24 2	N/A
WILLE	Warning for MEL ≥ 100 dB(A)	EX TEX STEX OUTER SIX	N/A
10.6.4	Measurement methods	111 111 111	Р
10.6.5	Protection of persons	THE THE LITE WITE	P



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	IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
aller.	and the second	THE LITTER WITH MICH	The The
	Instructional safeguards	24, 25,	P
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	White White White	unt un P
10.6.6.1	Corded listening devices with analogue input	TEX STEX STEEL	N/A
1 1	Listening device input voltage (mV)	in my	N/A
10.6.6.2	Corded listening devices with digital input	CER STER STEEL STOLE	N/A
- 14	Max. acoustic output L _{Aeq,T} , dB(A)	14, 14, 1	N/A
10.6.6.3	Cordless listening devices	EL STER WITE WITE	N/A
24	Max. acoustic output L _{Aeq,T} , dB(A):	20, 20,	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General	Vr. Mur. Mur. M. A.	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	, In P
INLIEK WI	Audio Amplifiers and equipment with audio amplifiers	THE WALTER WALTER	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	a state of the	P
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
20, 2	Instructional safeguard	White Aut Aug Au	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	P
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	P.
B.4	Simulated single fault conditions	MULL MULL SHE MILL	Р
B.4.1	General	THE THE THE STEEL	JE P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	EX P



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24.	IEC62368-1	LIF WILL WALL MAL.	211 211
Clause	Requirement – Test	Result – Remark	Verdict
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional	(See appended table B.4)	N P
D.4.4.2	insulation	(See appended table b.4)	24
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	PIE
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	PE
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	PE
3.4.9	Battery charging and discharging under single fault conditions	See annex M	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV ra	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	MITE WALL WALL WA	N/A
C.2	UV light conditioning test	L A A A	N/A
C.2.1	Test apparatus:	WILL MULL MULL MULL	N/A
C.2.2	Mounting of test samples	at at let let	N/A
C.2.3	Carbon-arc light-exposure test	NITE WALL WALL WALL	N/A
C.2.4	Xenon-arc light-exposure test	at let let tet	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	t let let let let a	N/A
D.2	Antenna interface test generator	Mer Mer Mer Any	N/A
D.3	Electronic pulse generator	TER JER STER STER	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
É.1	Electrical energy source classification for audio	o signals	N/A
- 1/1/2		5 40 40 A	
	Maximum non-clipped output power (W):		
- nin	Maximum non-clipped output power (W): Rated load impedance (Ω):	et lift milet milet	\$ _
t unit		ex miles miles miles m	



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IEC62368-1						
Clause	Requirement – Test	VITE MUTTE ME AN	Result – Remark	Verdict		

Clause	rtequirement – rest	INESUIT - INEITIAIN	Verdict
E.2	Audio amplifier normal operating conditions	the marity and and	N/A
in life	Audio signal source type:	TEX STEX STEX BUSE	1975
7. 7.	Audio output power (W)	They are the sail	
LITER WALL	Audio output voltage (V):	TET THE NUMBER OF THE	
<u></u>		ier me m. m.	_
ie. Mile	Rated load impedance (Ω)	The stiff of the springer	
F0.	Requirements for temperature measurement	741, 141 11.	N/A
E.3	Audio amplifier abnormal operating conditions	INOTRICTIONAL	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P
F.1	General	white wall wall was	Р
Jet J	Language	English	_
F.2	Letter symbols and graphical symbols	WILL MULL MULL MULL	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	JET P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	JIP WLIEK
F.3	Equipment markings	-1 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	er Bi
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	U P
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	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	Р
F.3.3.4	Rated voltage:	See copy of marking plate.	Р
F.3.3.5	Rated frequency:	DC supply	νP
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	Et TEX STEX WITE ON	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	The tilt is	N/A



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Clause	Deguirement Teet	Booult Damanic	\/c =d! -4
Clause	Requirement – Test	Result – Remark	Verdict
F.3.5.2	Switch position identification marking	The August August	N/A
F.3.5.3	Replacement fuse identification and rating markings	WALTER WALTER WALTER WALL	N/A
LIE WALT	Instructional safeguards for neutral fuse	TEN TEN STEEL WITE	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	74. 74.	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	TER TER STEEL WILL	N/A
F.3.6.1.1	Protective earthing conductor terminal	m m m	N/A
F.3.6.1.2	Protective bonding conductor terminals	TER STEE WITER WITER	N/A
F.3.6.2	Equipment class marking:	20, 20,	N/A
F.3.6.3	Functional earthing terminal marking:	EX STEX WILL MUTE AND THE	N/A
F.3.7	Equipment IP rating marking This equipment is classified as IPX0.		ek ulit ik
F.3.8	External power supply output marking:		
F.3.9	Durability, legibility and permanence of marking Marking is considered to be legible and easily discernible. See also the following details.		on P
F.3.10	Test for permanence of markings	The label was subjected to thepermanence of marking test. Thelabel was rubbed with cloth soakedwith water for 15 sec. And thenagain for 15 sec, with the clothsoaked with petroleum spirit. After this test there was nodamage to the label. The markingon the label did not fade. Therewas no curling and lifting of thelabel edge. After each test, the markingremained legible.	PURELET OF
F.4	Instructions	e at at at a	P
20, 20	a)Information prior to installation and initial use	See user manual	Р
WILER MUL	b)Equipment for use in locations where children not likely to be present	WIFE WIFE WHIFE	N/A
TEN SEN	c) Instructions for installation and interconnection	L A A A	N/A
t set	d) Equipment intended for use only in restricted access area	The more many	N/A
Mr.	e) Equipment intended to be fastened in place	EX TOTAL MALTE MALTE WA	N/A
all the	f) Instructions for audio equipment terminals	The state of	N/A
Wer. Au	g) Protective earthing used as a safeguard	THE RITE WILL WALL	N/A



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01 4	IEC62368-1	D II D I	N/ - 1: 4
Clause	Requirement – Test	Result – Remark	Verdict
NITEK N	h) Protective conductor current exceeding ES2 limits	THE THE STEEL	N/A
a	i) Graphic symbols used on equipment	mr m. m.	N/A
THE WAY	j) Permanently connected equipment not provided with all-pole mains switch	WILLER WHILER WHITER WA	N/A
TEN WALTER	k) Replaceable components or modules providing safeguard function	JEK MITEK WALTER WALT	N/A
- TEX	I) Equipment containing insulating liquid	at at at	N/A
Mr.	m) Installation instructions for outdoor equipment	er while while while	N/A
F.5	Instructional safeguards	at at at	N/A
G	COMPONENTS		- Р
G.1	Switches	at the set of	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	of let the the	N/A
G.1.3 Test method and compliance		The The M	N/A
G.2	Relays	t let let liter	N/A
G.2.1	2.1 Requirements No relay used		N/A
G.2.2	Overload test	Alt Contract of	N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance	Les Mrs. Mrs. Mrs.	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No such component	N/A
Merie M	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	UNLIEK WALTER WALTER	N/A
LIFE WAL	Thermal cut-outs tested as part of the equipment as indicated in c)	STEET WITE WATER WA	N/A
G.3.1.2	Test method and compliance		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 wifet milet whilet	N/A
LEX.	b) Thermal links tested as part of the equipment	The state of	N/A
G.3.2.2	Test method and compliance	WITE WILL MALL M	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	set night might miles	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	the set set	N/A



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	IEC62368-1	very aller mer and	72, 7,
Clause	Requirement – Test	Result – Remark	Verdict
G.3.5.2	Single faults conditions	Murran Mark Mark	N/A
G.4	Connectors	LIER OLIER MITE	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	NITER WITE WALLE WA	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	tek stek astek and	N/A
G.5	Wound components	24 24	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	20 2	N/A
G.5.2	Endurance test	CLIEB WALTER WALTER	N/A
G.5.2.1	General test requirements	the state of	N/A
G.5.2.2	Heat run test	LIE WALL WALL WALL WALL	N/A
et Jet	Test time (days per cycle)	L X A A	· _
Mr.	Test temperature (°C)	MULL MILL MILL	
G.5.2.3	Wound components supplied from the mains	et set set	N/A
G.5.2.4			N/A
G.5.3	Transformers	THE STATE OF	N/A
G.5.3.1	Compliance method:	2 14 24	N/A
TET WALTE	Position:	The I'm Silve mil	N/A
L X	Method of protection	111 111 11	N/A
G.5.3.2	Insulation	EX LIET NITES WITE	N/A
A.	Protection from displacement of windings:	711 111 111	_
G.5.3.3	Transformer overload tests	ALTER MATERIALITY	N/A
G.5.3.3.1	Test conditions	74	N/A
G.5.3.3.2	Winding temperatures	RETER INCIDENTAL WALLE WAS	N/A
G.5.3.3.3	Winding temperatures - alternative test method	a state to	N/A
G.5.3.4	Transformers using FIW	TER MALTE MALL WALL	N/A
G.5.3.4.1	General	Lite at all	N/A
211. 21	FIW wire nominal diameter	MULTI WALL WALL	7/12
G.5.3.4.2	Transformers with basic insulation only	at at the	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	mer mer me m	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	TIER MULL MULL MULL	N/A
G.5.3.4.5	Thermal cycling test and compliance	ex aliex aliex allier	N/A
G.5.3.4.6	Partial discharge test	70 J	N/A
G.5.3.4.7	Routine test	SITE OUT SOUTH	N/A



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01	IEC62368-1	Danille Danielle	Manaliat
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	ALTER MITE MALTE	N/A
G.5.4.2	Motor overload test conditions	201	N/A
G.5.4.3	Running overload test	NITER WALL WALL WA	N/A
G.5.4.4.2	Locked-rotor overload test	at the set of	/ N/A
2/1	Test duration (days):	I'E WILL WILL WILL	7/1 -
G.5.4.5	Running overload test for DC motors	L St St SEX	N/A
G.5.4.5.2	Tested in the unit	WELL WELL MAN	N/A
G.5.4.5.3	Alternative method	et set set	N/A
G.5.4.6	Locked-rotor overload test for DC motors	MILL MULL MAN A	N/A
G.5.4.6.2	Tested in the unit	LEK TEK TEK SI	N/A
4 4	Maximum Temperature	in me me in	N/A
G.5.4.6.3	Alternative method	et the tier still	N/A
G.5.4.7	Motors with capacitors	the the the	N/A
G.5.4.8	Three-phase motors	TEN LIFE MITTER	N/A
G.5.4.9	Series motors	"NI 211 211	N/A
WILL MUE	Operating voltage	LET MITE W	- L
G.6	Wire Insulation		N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	The second second	N/A
G.7	Mains supply cords	EL WILL WALL MALL	N/A
G.7.1	General requirements	No such component	N/A
in in	Type	White while while	n
G.7.2	Cross sectional area (mm² or AWG)	at at let	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	ne me me m	N/A
G.7.3.2	Cord strain relief	TER WITE WHILE WALL	N/A
G.7.3.2.1	Requirements	the state of	N/A
21/2 21	Strain relief test force (N)	White While Whi	N/A
G.7.3.2.2	Strain relief mechanism failure	at at at	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	With Mrs. Mrs. M	N/A
G.7.3.2.4	Strain relief and cord anchorage material	at all all a	N/A
G.7.4	Cord Entry	in mur mur mu	N/A
G.7.5	Non-detachable cord bend protection	et let let let	N/A
G.7.5.1	Requirements	any any any	N/A
G.7.5.2	Test method and compliance	A 18 18	N/A



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211	IEC62368-1	The Will Mar Mar	20, 20.
Clause	Requirement – Test	Result – Remark	Verdict
The .	Overall diameter of main and years I dimension.	E. Will Mull Mar	11/2 11/1
	Overall diameter or minor overall dimension, <i>D</i> (mm)	et set set	
2/1,	Radius of curvature after test (mm):	mer mer m	_
G.7.6	Supply wiring space	TER TER JER N	N/A
G.7.6.1	General requirements	Not the the	N/A
G.7.6.2	Stranded wire	TEK LIEK SLIEK WLI	N/A
G.7.6.2.1	Requirements	11/2 1/11 1/11	N/A
G.7.6.2.2	Test with 8 mm strand	t with miter white	N/A
G.8	Varistors	Till Till Till	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General	LITER WALTER WALTER WAS	N/A
G.8.2.2	Varistor overload test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.8.2.3	Temporary overvoltage test	MULL MULL MULL	N/A
G.9	Integrated circuit (IC) current limiters	L A At At	N/A
G.9.1	Requirements	No such component	N/A
alifer ali	IC limiter output current (max. 5A):	it of the	JEE _
, 3	Manufacturers' defined drift:	2 20 20	_
G.9.2	Test Program	THE THE STREET	N/A
G.9.3	Compliance	The the th	N/A
G.10	Resistors	EK TEK STEK MITER	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	LITER OUTER WITE IN	N/A
G.10.3	Resistor test	111 111	N/A
G.10.4	Voltage surge test	LIER WILL MULL MA	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	IER WILL WHILE WHILE	N/A
G.11	Capacitors and RC units	e at at at	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	at at at	N/A
G.11.3	Rules for selecting capacitors	Will Mer Mer Mer M	N/A
G.12	Optocouplers	at let itet is	N/A
t Get	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
Alle.	Type test voltage V _{ini,a} :	WALL MALL WALL	2/1c -
All The State of t	Routine test voltage, V _{ini, b} :	a at at	₹É



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	Tage 25 61 65								
IEC62368-1									
	Clause	Requirement – Test	Mr. M. M.	Result – Remark	Verdict				

Giadoo	MI THE STATE OF TH	Et LIET NIET INCE IN	11/2
G.13	Printed boards	141 141 141	N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A
G.13.2	Uncoated printed boards	WILL MULL MULL AND	N/A
G.13.3	Coated printed boards	at all tell tell	N/A
G.13.4	Insulation between conductors on the same inner surface	Mary Mary Mary	N/A
G.13.5	Insulation between conductors on different surfaces	MULTE MILL MILL AND	N/A
ines an	Distance through insulation	ALTER MILE WALL WALL	N/A
et e	Number of insulation layers (pcs)	an an at the	_
G.13.6	Tests on coated printed boards	LIFE WILLE WILL MILL	N/A
G.13.6.1	Sample preparation and preliminary inspection	a start of the	N/A
G.13.6.2	Test method and compliance	er with mut mit on	N/A
G.14	Coating on components terminals	L st set set st	N/A
G.14.1	Requirements	anti mit mit mit	N/A
G.15	Pressurized liquid filled components	TEN TEN	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	THE LIEF	N/A
G.15.2.1	Hydrostatic pressure test	in the the sail of	N/A
G.15.2.2	Creep resistance test	of the tree street and	N/A
G.15.2.3	Tubing and fittings compatibility test	14. 14. 14. 14.	N/A
G.15.2.4	Vibration test	THE STEE WITE SMITE	N/A
G.15.2.5	Thermal cycling test	The This This	N/A
G.15.2.6	Force test	LIER SLIER WILL WHILE	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	TER RITER WITE WALLE AND	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
21/2 21	ICX with associated circuitry tested in equipment	nute muit whit whi	N/A
All C	ICX tested separately	A A A A A	N/A
G.16.2	Tests	WILL WILL WILL MULT	N/A
iek wate	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	TEX STEEL MITTEL WHITE	_
MITER	Mains voltage that impulses to be superimposed on	et tet stret stret un	_
All the second	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	the state of	_



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40,	IEC62368-1	er, the the the	20. 2.
Clause	Requirement – Test	Result – Remark	Verdict
0.46.2	Compositori disebarate tont	the wife while one and	NI/A
G.16.3	Capacitor discharge test		N/A
H	CRITERIA FOR TELEPHONE RINGING SIGNAL	2	N/A
H.1	General	The tit the state	N/A
H.2	Method A	wer, and any	N/A
H.3	Method B	16t	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	Mer My My M	<u>.</u> –
H.3.1.2	Voltage (V)	THE STEEL STEEL STATE	_
H.3.1.3	Cadence; time (s) and voltage (V):	Mr. Mr. Mr. And Andrews	_
H.3.1.4	Single fault current (mA)::	LIER ALTER MALTER	-
H.3.2	Tripping device and monitoring voltage	The state of	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	THE WALLE WHILE WHILE W	N/A
H.3.2.2	Tripping device	LIER WIEL WILLER WA	N/A
H.3.2.3	Monitoring voltage (V)	11 24 2	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	TEL TEL LITTE RUTE	N/A
1 1	Winding wire insulation:	ne me m	_
WILL	Solid round winding wire, diameter (mm):	A THE STEEL WITH N	N/A
NUTER AND	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	Tet Tet Tet ST	N/A
J.2/J.3	Tests and Manufacturing	any and any	
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	n. m. m.	N/A
MUTIL	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	me me me	N/A
K.4	Interlock safeguard override	TEX TIEN STIEN SOLVE	N/A
K.5	Fail-safe	ny my my	N/A
K.5.1	Under single fault condition	TER SLIER WITER WALTER	N/A
K.6	Mechanically operated safety interlocks	24. 24.	N/A
K.6.1	Endurance requirement	EX SLIER WILLER WALTER W	N/A
K.6.2	Test method and compliance	20 T	N/A
K.7	Interlock circuit isolation	- The other with whi	N/A



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	IEC62368-1		1
Clause	Requirement – Test	Result – Remark	Verdict
K.7.1	Separation distance for contact gaps & interlock circuit elements	TEX TEX STEX WITH	N/A
Tex 1	In circuit connected to mains, separation distance for contact gaps (mm)	and any any the	N/A
et de	In circuit isolated from mains, separation distance for contact gaps (mm)	inter which will will	N/A
"IL	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A)	t liet writer writer one	N/A
K.7.3	Endurance test	All All All	N/A
K.7.4	Electric strength test	LITER ONLIER WALLE	N/A
L	DISCONNECT DEVICES		N/A
L.1 - 111-1	General requirements	LIFE WILL WILL WILL	N/A
L.2	Permanently connected equipment	L L St St	N/A
L.3	Parts that remain energized	ET INITE WILL WILL WI	N/A
L.4	Single-phase equipment	at at at a	N/A
L.5	Three-phase equipment	antit with our and	N/A
L.6	Switches as disconnect devices	at the state	N/A
L.7	Plugs as disconnect devices	A Say Any	N/A
L.8	Multiple power sources	The The	N/A
20.	Instructional safeguard	ry mr. mr. m. a	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		III P
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	NETEP.
М.3	Protection circuits for batteries provided within the equipment	nt with the text	Р
M.3.1	Requirements	ie writ with my m	Р
M.3.2	Test method	Let get of	P
701. 1	Overcharging of a rechargeable battery	(See appended table AnnexM)	Р
until white	Excessive discharging	(See appended table AnnexM)	₩. P
	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



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~~	IEC62368-1	c 21/2 11/2 21/2 2	
Clause	Requirement – Test	Result – Remark	Verdict
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	P. P.
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		P
M.4.1	General	the wife har he m	Р
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	Property of the state of the st
M.4.2.1	Requirements	EX SIEK WILL MALTE WA	N/A
M.4.2.2	Compliance	(See appended table M.4.2)	- P
M.4.3	Fire enclosure	V-0 fire enclosure used	W.P.
M.4.4	Drop test of equipment containing a secondary lithium battery	at aller miret	MILIP
M.4.4.2	Preparation and procedure for the drop test	_1	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	Р
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	₩P
M.4.4.6	Compliance	TEX LIER RUEN WITE.	P
M.5	Risk of burn due to short-circuit during carryin	g	Р
M.5.1	Requirement	No bare conductive terminal used	P
M.5.2	Test method and compliance	- TEX JEX NUTER INCL	N/A
М.6	Safeguards against short-circuits	Me My My	Р
M.6.1	External and internal faults	TEX STEX WITE SOUTH	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.	P
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A



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Clause	Requirement – Test Result – Remark	Verdict
Clause	requirement – rest remark	Verdict
	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
jet i	Minimum air flow rate, Q (m³/h):	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A
M.7.3.2	Ventilation test – alternative 1	N/A
- JEE	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
LIEK 1	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
المالان المالة	Hydrogen gas concentration (%):	N/A
M.7.4	Marking:	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	
M.8.1	General	N/A
M.8.2	Test method	N/A
M.8.2.1	General	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):	20
M.8.2.3	Correction factors:	12 - 10 1
M.8.2.4	Calculation of distance d (mm):	
M.9	Preventing electrolyte spillage	N/A
M.9.1	Protection from electrolyte spillage	N/A
M.9.2	Tray for preventing electrolyte spillage	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	N/A
الاير باد	Instructional safeguard:	N/A
N WELL	ELECTROCHEMICAL POTENTIALS	N/A
- J. J.	Material(s) used:	. St _ 18
Onec 1	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
A EX	Value of <i>X</i> (mm):	100
b m	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	<i>™</i> P
P.1	General See below	Р
P.2	Safeguards against entry or consequences of entry of a foreign object	Р
P.2.1	General	P
P.2.2	Safeguards against entry of a foreign object	Р
All the	Location and Dimensions (mm) No opening.	1



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	IEC62368-1	er and any	
Clause	Requirement – Test	Result – Remark	Verdict
P.2.3	Safeguards against the consequences of entry of a foreign object	E COLORD SOLL SOLL SOLL	N/A
P.2.3.1	Safeguard requirements	They are any	N/A
ALTE WAL	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	NITER WALTER WHITE WALTER	N/A
IEK WALTE	Transportable equipment with metalized plastic parts	TEK INLIEK WHITEK WHITEK W	N/A
P.2.3.2	Consequence of entry test	a state of	N/A
P.3	Safeguards against spillage of internal liquids	I UNITE WALL WALL WAS	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	Write Aut Aug Man	N/A
P.3.3	Spillage safeguards	it let tet stet	N/A
P.3.4	Compliance	in my my	N/A
P.4	Metallized coatings and adhesives securing pa	rts. At Alt Alt	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	- TEH TEH STER NIT	N/A
2, 7	Conditioning, T _C (°C)	The American	7
NETTER WA	Duration (weeks)	ALTER MITE	WEIL.
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	See appended table Annex Q.1	P
Q.1.1	Requirements	t the tiet aliet of	Р
	a) Inherently limited output	211, 211, 21,	N/A
الارتيان	b) Impedance limited output	THE STEEL WITE WITE	Р
. .	c) Regulating network limited output	all an an	N/A
TILL MUT	d) Overcurrent protective device limited output	LIER SLIER MILE WALLE	N/A
et et	e) IC current limiter complying with G.9	- 24 ×	N/A
Q.1.2	Test method and compliance	See below	Р
MALTER	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	EX PE
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
7 2,	Maximum output current (A):	ing in in in	N/A
JER MIT	Current limiting method	THE THE THE STEE	NITE N
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	Mr. Mr. M. M.	N/A



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		IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

R.3	Test method	N/A
ancir .	Cord/cable used for test:	an -
R.4	Compliance	N/A
s of	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	
- LEA	Samples, material	et -1
Mer	Wall thickness (mm):	1000
AEX.	Conditioning (°C)	,
in, i	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
13. 14.	- Material not consumed completely	N/A
y	- Material extinguishes within 30s	N/A
m	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
Mr.	Samples, material:	21/2
TEX.	Wall thickness (mm)	-UEN
1, 2,	Conditioning (°C)	ϵ_{i_j} —
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
	Mounting of samples:	
WILLE	Wall thickness (mm)	WV L
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A
711-	Samples, material:	7,
NUTER	Wall thickness (mm)	* 10 2 5
10,	Conditioning (°C)	
Ture of	MECHANICAL STRENGTH TESTS	ne P
T.1	General Control of the Control of th	
T.2	Steady force test, 10 N (See appended table T.2)	P.
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N (See appended table T.4)	Р
T.5	Steady force test, 250 N:	N/A
T.6	Enclosure impact test	N/A



N/A

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Terminals tested with rigid test wire

ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR

CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES

INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING

Indoor equipment

Accessible part criterion

420 V PEAK (300 V RMS)

Resistance to UV radiation

Resistance to corrosion

Resistance to corrosion

Metallic parts of outdoor enclosures are resistant

to effects of water-borne contaminants by.....:

	IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
Me	THE THE STATE OF T	Er Will Muli Myli M	in an
Alt.	Fall test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
ang a	Swing test	WITE WALTE WALL WALL	N/A
T.7	Drop test:	(See appended table T.7)	P
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		N/A
MILIE	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas		N/A
iner in	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U WALL	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
Ú.1 🖑	General	at at let let	N/A
TEX.	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen		N/A
A 200	DETERMINATION OF ACCESSIBLE PARTS	Must must	N/A
V.1	Accessible parts of equipment	the Tipe	N/A
V.1.1	General	the mit me me.	N/A
V.1.2	Surfaces and openings tested with jointed test probes	A WILLER MULTER MULTER MA	N/A
V.1.3	Openings tested with straight unjointed test probes	a at at a	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	WHITE WALL WALL WALL	N/A
V.1.5	Slot openings tested with wedge probe	at at let let	N/A
112			100

General

V.1.6

V.2

Χ

Y.1

Y.2

Y.3

Y.3

Y.3.1



D	27		00
Page	31	OT	b8

IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Y.3.2	Test apparatus	in mer mer me	N/A	
Y.3.3	Water – saturated sulphur dioxide atmosphere	TER STEE WITER	N/A	
Y.3.4	Test procedure ::	20, 20, 20	N/A	
Y.3.5	Compliance	SLIFE WITE MALIER IN	N/A	
Y.4	Gaskets		N/A	
Y.4.1	General	THE WALL WALL WAL	N/A	
Y.4.2	Gasket tests	e state	N/A	
Y.4.3	Tensile strength and elongation tests	White Main Mar	N/A	
TEK K	Alternative test methods	at the test	N/A	
Y.4.4	Compression test	White Mrs. Mrs.	N/A	
Y.4.5	Oil resistance	et let let.	N/A	
Y.4.6	Securing means	by Mr. Mr. M.	N/A	
Y.5	Protection of equipment within an outdoor enclo	osure	N/A	
Y.5.1	General	Mr. Mr. M.	N/A	
Y.5.2	Protection from moisture	TEX SITES OLIES	N/A	
*	Relevant tests of IEC 60529 or Y.5.3:	111. 211.	N/A	
Y.5.3	Water spray test	Let 1 miles	N/A	
Y.5.4	Protection from plants and vermin	1 1	N/A	
Y.5.5	Protection from excessive dust	LIE RETER MILITER MAI	N/A	
Y.5.5.1	General		N/A	
Y.5.5.2	IP5X equipment	MITTER MALTE WALL	N/A	
Y.5.5.3	IP6X equipment	L A A	N/A	
Y.6	Mechanical strength of enclosures	INLIE WALLE WALL	N/A	
Y.6.1	General	at the left	N/A	
Y.6.2	Impact test:	WILL MILL MULT M	N/A	



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2 alex	THE LECT	62368-1	Mrs. Mrs. Mrs.
Clause	Requirement – Test	Result – Remark	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU_GD_IEC62368_1E

Attachment Originator.....: UL(Demko)

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

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Apr.	CENELEC COMMON MODIFICATIONS (EN)	life while while whe was	Р
WALTER O	Clause numbers in the cells that are shaded light grace 12020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P. WALTER
NI WALLE	Add the following annexes: Annex ZA (normative)Normative references to interror corresponding European publications Annex ZB (normative)Special national conditions	national publications with their	EX P
	Annex ZC (informative)A-deviations	5	
1	Annex ZD (informative)IEC and CENELEC code designations for flexible cords Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. T $E = \int_{0}^{T} p(t)^{2} dt$	ALTE WALTER	N/A



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IEC62368-1			
Clause	Requirement – Test	Result – Remark	Verdict

Clause	rtequirement – rest	Result – Remark	Verdict
- In-		WILL WILL MILL M	701
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative to	THE STIFF OUT ON	" Will !
	a reference value, <i>E</i> ₀ , typically the 1 kHz	The Mr. M. M.	
	threshold of hearing in humans.	A ST ST ST	- July
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	LITER MITE WALL WALL	The The
	- Let the the strength with the	The state of	A
	the the the	at let let the	Note Will.
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	WILL MUE MY	21.
	(E_0) dB	4	LIT LET
	m m m m m	TELL LIER SLIFE IN	LI MILL
	" Let the tile out only	The The The The	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at the state of	* (E*
10 - 11		alite of the solid to the	1000000
3.3.19.5	digital signal level relative to full scale, dBFS	11. 14.	N/A
	levels reported in dBFS are always r.m.s. Full	at let tet tet	CITE WILL
	scale level, 0 dBFS, is the level of a dc-free 997-	it with the tile	211 22
	Hz sine wave whose undithered positive peak	4	J. J. J. J.
	value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	IN THE THEM STILL	NE WELL
	corresponding to negative digital full scale unused	The The Man is	
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels.	the state of	Clif Cliff
	Because the definition of full scale is based on a sine wave, the	LIEN SLIP WILL WAS	The .
	level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals	1/2, 1/4, 20, 20,	
All C	may reach +3,01 dBFS.	at the state of	- JEF .
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	# J#	N/A
	Replace 10.6 of IEC 62368-1 with the following:		ans ans
10.6.1.1	Introduction	Not such equipment	N/A
The state of	Safeguard requirements for protection against	- 160 JE NICE 1	The William
	long-term exposure to excessive sound	The Mr. M. D.	
	pressurelevels from personal music players	1 1 1 1 1	et let
	closely coupled to the ear are specified below.	THE SLIFE OF THE WALL	11/2 2
	Requirements for earphones and headphones	ing in in	
	intended for use with personal music players are	at the fifth the	STORY N
	also covered.	LIE WITE WALL WALL	21/2 21/2
	A personal music player is a portable equipment	71, 75	4 0
	intended for use by an ordinary person , that:	It THE THE THE	alter aptiv
	The state of the state of the state of	Wer aller Aug a	11.
	- is designed to allow the user to listen to audio or		at let
	audiovisual content / material; and	TEN TEN TEN O	IL WALLE
	– uses a listening device, such as headphones or	The Mer My Mr.	4,0
	earphones that can be worn in or on or	* A A	+ 11+
	around the ears; and	THE LIFE SLIFE WITH	Janes William
	 has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is 	Le Mr. M. M.	
	intended for the user to walk around with while in	a to the left	18 S
	continuous use (for example, on a street, in a	THE SLIP WILL WALL	Mr. Mr.
	subway, at an airport, etc.).	211, 24, 24	1
	The state of the s	L A A A	The STE
	EXAMPLES Portable CD players, MP3 audio players, mobile	" WILL WILL WILL W	211
	phones with MP3 type features, PDAs or similar equipment.	24. 22.	
			. the
	Personal music players shall comply with the	et et let o	EK CLIER



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21,	IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
ari	THE THE ST		are are		
	requirements of either 10.6.2 or 10.6.3.	20, 20,	14 15t		
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	WHITEK WHITEK WHITEK	MUTTE MUTT		
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	sitek mittek mittek on	et with wh		
	Listening devices sold separately shall comply with the requirements of 10.6.6.	WILL MAN MAN	TIE STEE		
	These requirements are valid for music or video mode only. The requirements do not apply to:	Murit mer mer	TEX TEX		
	– professional equipment;	WALTER WALTER WALLE	her me a		
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment.	LIEK WHITEK WHITEK WH			
	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music 	Mult mult must	white wifet		
	players: • long distance radio receiver (for example, a multiband radio receiver or world band radio	unit whit whi	TEX STEX		
	receiver, an AM radio receiver), and • cassette player/recorder;	The state of	et viet ni		
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	it whit with white	WALTE WALTER		
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	UNLIER WALLER WALLER	uniter uniter.		
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	LIER WHILER WHILER AN			
WILLER WILLER	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	the tet steet street	WITE WILLEY		
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	THE THE THE	N/A		
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	office and the modern and	TEK MU TEK MU		
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is	Murr Mur Mur	White Whitek		



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10-10-10-10-10-10-10-10-10-10-10-10-10-1					
20.		IEC62368-1	is the area and	2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	
Clause	Requirement – Test	mer in in	Result – Remark	Verdict	

	drawn to EN 50360 and EN 50566.	10. 1	J. J.
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2 No. 10.6.2.1	 General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. 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 term <i>L</i>_{Aeq, T}) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically 	Not such equipment	N/A N/A
	has an average sound pressure (long term $L_{Aeq,7}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	THE WHITE WHITEK WHITEK	un Ex un if
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, racoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as	untick whitek wh	N/A



N/A

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IEC62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	Will mir mir	P-
	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	MILITER WHITE WHITER WH	ME WINE WINE WINE WINE WINE WINE WINE WIN
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	MILLER MATTER MUTER	N/A
10.6.3	Classification of devices (new)	At All All	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general	UNLIER WHITER WH	N/A STEEL NIA STEEL

RS2 limits (new)

not exceed the following:

10.6.3.3

≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.

RS2 is a class 2 acoustic energy source that does

- for equipment provided as a package (player



Reference No.: WTF23D01000398R1Y Page 43 of 68

IEC62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	AND LIEN WHITER	AND THE STREET OF THE STREET O
10.6.4	Requirements for maximum sound exposure	Tr. Mr. Mr. M.	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	At Callet and	Р
SEK WALTER	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	THE WALTE WALTE	TE TE
	NOTE 1 Volume control is not considered a safeguard.	WALTER WALTE WALL	Mr. Mr.
	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 whitek	EX WITEX WATER
	The elements of the instructional safeguard shall be as follows:	Whitek Milek Milek	unlied white
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	Wilek Miller Miller Miller	TEK MYLEK
	wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	Whilek whilek whilek	WHITE WALL
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	16 C



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20,	IEC62368-1	in the man man	20, 20.
Clause	Requirement – Test	Result – Remark	Verdict
de	White the the the	the cities with white	while with
MALIEK W	of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	MUNITER WHITER WATER ON	INLIER WALTER
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	EX WILLEX WALLEY WALLEY WILLEX WALLEY WILLEX WALLEY	White white
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	TEX WAITER WAITER WAL	EK M. TEK MI
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	A MILIER WHITER WHITER	WALL IX WALL
WALTEK V	A skilled person shall not be unintentionally exposed to RS3.	TEX STEEL MITER	WALTER WALTER
10.6.5	Requirements for dose-based systems		N/A
10.6.5.11 STEEL WILLIEST STREET STREE	General requirements Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	Not such equipment	N/A N/A N/A N/A N/A N/A N/A
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	whitek whitek whitek whi	itek mitek
10.6.5.2	Dose-based warning and requirements	ALIER WITE WITE	N/A
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an	TEX TEX TEX	NITEK MITEK



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-20,	IEC62368-1	is all all all	25. 2.
Clause	Requirement – Test	Result – Remark	Verdict
ale.	I salar and a discount for a self-through a self-and	White Mary War.	The All
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	1 1 1	LEX LEX
	decrease to compliance with class RS1.	ALTER MITE WALLE	Wer are
		211. 24.	at at
	The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of	TEX LIEX SLIEN M	it with w
	hearing damage or loss.		
10.6.5.3	Exposure-based requirements	CH THE THE STE	N/A
	With only dose-based requirements, cause and	were mer me	20, 2
	effect could be far separated in time, defying the	L At At ACT	THE STE
	purpose of educating users about safe listening practice. In addition to dose-based requirements,	white while whi.	ing in
	a PMP shall therefore also put a limit to the short-	20. 1	et et
	term sound level a user can listen at.	LIER SLIER WILL W	itte Mer
	The expecting based limiter (EL) shall	14. 24. 25. A.	x 2+
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed	LET TEX STER OUT	The sale
	100 dB(A) or 150 mV integrated over the past 180	y mer me m	2, ,
	s, based on methodology defined in EN 50332-3.	e of at	(1) A
	The EL settling time (time from starting level	er write and and	me me
	reduction to reaching target output) shall be 10 s or faster.	70, 70, 7	14 14
	or raster.	TEX TEX STEED	Write War.
	Test of EL functionality is conducted according to	Wer Mer 211 2	
	EN 50332-3, using the limits from this clause. For	at a late of	TER LITER.
	equipment provided as a package (player with its listening device), the level integrated over 180 s	The The	20, 2
	shall be 100 dB or lower. For equipment provided	- L	* CE*
	with a standardized connector, the unweighted	it will will write	an an
	level integrated over 180 s shall be no more than	20, 20, 2	1- 1
	150 mV for an analogue interface and no more	- TEX TEX STEET	WILL WILL
	than -10 dBFS for a digital interface.	Mer Mer Me	40, 40,
ULIEK W	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX LIEX NITER	NITEK WALTER
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeqacoustic pressure output of the	or my my my	
	listening device, and with the volume and sound	at let let stell	- J. E. W. W.
	settings in the listening device (for example, built- in volume level control, additional sound features	West Mer Mer	20,
	like equalization, etc.) set to the combination of	1 2 3	- LEY - LEY
	positions that maximize the measured acoustic	LIER WITE MALIE	MULL MULL
	output, the input voltage of the listening device	21/2 21/2	4 1
	when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75	THE THE THE	ITE WITE
	mV.	WE MEET THE THE	
	alte with water and the	at the state of	it is
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TEN WITH WALL WILL	24, 24,
10.6.6.2	Corded listening devices with digital input	e at at at	N/A
		The rail and	The The
	With any playing device playing the fixed	112. 41112.	
	"programme simulation noise" described in EN 50332-1, and with the volume and sound settings	711, 71, 72	* St



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IEC62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
all .	We are the contract of	er lite with with	The Me		
W ^{ritek} W	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	whitek whitek whitek	unties unties		
10.6.6.3	Cordless listening devices		N/A		
Whitek white	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, τacoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	EX WHITE WHI	JUNE WALTER MILIER WALTER MILI		
10.6.6.4	Measurement method	WITE WILL WILL	N/A		
NITES AND	Measurements shall be made in accordance with EN 50332-2 as applicable.	A THE	LIFEK NLIEK		
3	Modification to the whole document		Р		



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IEC62368-1						
Clause	Requirement – Test	Result – Remark	Verdict			

list:	"country" note	s in the refe	erence docume	nt according	to the following	-
0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	200
3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	تعاور
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	C.E.Y
5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
Table 13						1
5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	15
5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	SEX.
8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	٤
10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
Y.4.5	Note					
en 2			AT AY		1 10 A	350
Modification	to Clause 1					
NOTE Z1 The us	e of certain substa			MALTER MALT	E WALTE WALT	
	0.2.1 3.3.8.3 5.2.2.2 5.4.2.3.2.4 Table 13 5.4.10.2.1 5.5.2.1 5.6.8 8.5.4.2.3 40.6.1 Y.4.5 Modification Add the follow NOTE Z1 The us	0.2.1 Note 1 and 2	Section Sect	Iist:	Section Sect	0.2.1



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Telefolio Tell VIII 2020 100000 TELL							
IEC62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				

4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits	Not directly connected to the mains	N/A
	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):	riter muries mures muries	ALTEK W
	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;	et whitek whitek whitek whi	E uni unite
	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;	MITER MUTER MUTER MUTER	MALTEK.
	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	a start of set of	
whitek whitek	specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Whitek wh	White Milet Milet Milet
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



Ρ

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IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.5.1	Add the following after the first paragraph:	Mr. Anti Aut	N/A	
WALTER WALTER	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	untitek untitek untitek, titek untitek untitek un	ANTER WHILE	
	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.	MULTER MULTER MULTER	WALTE WALTER	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	UNLIER WALTER WALTER V	Miller Juniar	
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	TEK WHITEK WHITEK WH	TER ON TE ON	
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	Whitek Whitek	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	THE WILL WILL WILL	EX MUTEEX MU	
t west	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.			
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 AnnexZD.	WATER WATER WATER	N/A	
	71 3	'		

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Modification to Bibliography



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in mi	My My M	IEC62368-1	iter niter uniter	Will Mill Mill
Clause	Requirement – Test	WILL MULL MY MY	Result – Remark	Verdict

Mrs	will all the state of the state with any will all the state of the sta	an.
et	Add the following notes for the standards indicated:	P
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	WILLER WAS
- (ZITE) 1	ADDITION OF ANNEXES	P
:B 5	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	ωP
	Denmark, Finland, Norwayand Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or anetwork shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatetsstikpropskaltilsluttesenstikkontakt med jordsom giver forbindelsetilstikproppensjord."	N/A
	In Finland: "Laite on liitettäväsuojakoskettimillavarustettuunpistorasiaan "In Norway: "Apparatetmåtilkoplesjordetstikkontakt" In Sweden: "Apparatenskallanslutas till jordatuttag"	Whitek Whitek



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	IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
J12 1	The state of	alite mile with which	7 m		
4.7.3	United Kingdom To the end of the subclause the following is added:	MULTER MULTER MULTER MULT	N/A		
itek wate Et antek	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	et itek mitek mitek mitek.	White a		
	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	No high touch current measured.	N/A		
5.4.11.1 and Annex G	Finland and Sweden	No such external circuits.	N/A		

 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),

shall pass the electric strength test below, or

 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric

If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and

strength test below.

and

in addition

 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.

It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.



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IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale	All Si Total	The Mark Mark	Mun All	
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	antifet whitet whitet	NITEX WHITEK	
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; 	LIFE WHITE WHITE WALTE	uni et wai	
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	JUNITER WALTE WALTER	unt. united.	
LIEK WALT	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	The Miles Writing Will	ex unitex un	
5.5.2.1	Norway	a state	N/A	
	After the 3rd paragraph the following is added:	the children while while	mr mr	
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Whitek Muliek Muliek	INLIEK WALTER	
5.5.6	Finland, Norwayand Sweden	No such resistors.	N/A	
	To the end of the subclause the following is added:	and the same	t Test of	
whitek.	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.	TE WALTER WALTER WALTER	WATE WATE	
5.6.1	Denmark	No such equipment.	N/A	
old out	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuseswith higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	While	ex white white	
5.6.4.2.1	Ireland and United Kingdom	The In In	N/A	
	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	Niter uniter miter unit	it un ilit un	



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Lange Mary	IEC62368-1						
Clause	Requirement – Test	MUE, MILL MILL	Result – Remark	Verdict			

5.6.4.2.1	France	70, 20,	N/A
WALLER WAL	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.	united united united unit	The Miller
5.6.5.1	To the second paragraph the following is added:	at left the	N/A
Whitek Whitek	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm²to 1,5 mm²in cross-sectional area.	Writek Murek A	unite vunite
5.6.8	Norway	the state of	A P
iner and	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.	ILE WHILE WHILE WHILE TEX WHILEX WHILE TEX WHILEX WHILEX	ANTER MI
5.7.6	Denmark	201. 20. 1	P
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current	Whitek whitek whitek w	ille Whites
5.7.6.2	exceeds the limits of 3,5 mA a.c. or 10 mA d.c. Denmark		Jr Pr
o.r.o.2	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.	MULTER WHITER WHITER	unite unit
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	THE WALTER WALTER WALTER	on text on text on the text of
	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.	With Multer Multer Multe	AN TEX AN
	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:	t outlies unlies unlies.	WALTER WALT



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20,	IEC62368-1	LIVE WILL WALL WILL	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
WILLER WILLER	"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)" 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	SUNLIER WILLER WILLER WILLER SUNLIER WILLER WILLER SUNLIER WILLER WILLER WILLER WI	MILIER WALTER WALTER
	strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparatersom er koplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkoplet utstyr – og er tilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskal det vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet."	MUTE WHITE WHITEK WHITE	EX WALTER WALTER
	Translation to Swedish: "Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet."	Whitek whitek whitek	WINLIEK WALTE
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	No external circuits.	N/A



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46		90 00 0		
11/2		IEC62368-1		100 100
Clause	Requirement – Test	The Mr.	Result – Remark	Verdict

B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.4	The following is applicable:	mains	MULL OF
ALTEK WALF	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	Whitek wh	NUTER WALTER
G.4.2	Denmark	Not directly connected to the	N/A
LIEK WALTE	To the end of the subclause the following is added:	mains	LIEK WALT
EX WALTER	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	A MULTER MULTER MULTER MULT	EX WALTEX
NALITE W	CLASS I EQUIPMENT provided with socket-	TEX SITEX NITEX INITER	MALTER
, t	outlets with earth contacts or which are intended to be used in locations where protection against	Wer The Mr. A.	*
Mile Will	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.	THE WALTER WALTER	TEX TE
MULLER OW	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	TER WHITE MILES MILES WHITES	JUNITER OF
LIFEK WHITE	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.	and whitek whitek whitek w	LIEN WAL
JUNITEK W	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	MILE WALLEY WALLEY WALLE	MUTIER
unitek uni	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	Will miles writes miles	unlifek uni
1 12	Justification:	wer mer me me	, , , t
The Street	Heavy Current Regulations, Section 6c	t let get get all	CLIE



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AV	- 10 10 10 10 10 10 10 10 10 10 10 10 10	3		
in the		IEC62368-1		
Clause	Requirement – Test	i with the w	Result – Remark	Verdict

G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains white white white	whit.
	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	LITER WALTER WALTER WALTER WAS	Mar W
WALTER	replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	MALTER MALTER WALTER MALTE	WALTE
G.7.1	United Kingdom	at let let liet	N/A
	To the first paragraph the following is added:	WILL MULL MULL MULL	30
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	TEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX	TEX WALTER
ALTEK WA	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	THE MALITER WALTER OF	ALTER V
G.7.1	Ireland	THE LIFE OF	N/A
Whitek Whitek Whitek	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	Whitek whitek whitek whitek whitek	entitet Valitet Stet
G.7.2	Ireland and United Kingdom	in the the to	N/A
	To the first paragraph the following is added:	of the text the state	E JULI
	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.	WILL WILL WHILE	MUTER
ZC 👉	ANNEX ZC, NATIONAL DEVIATIONS (EN)	J	N/A



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	3 W 11 2020 10000001111	r ago or or or	
- m	THE THE	C62368-1	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

10.5.2	Germany	No CRT within the equipment.	N/A
	The following requirement applies:	ALTER MITER WALTER WALTER	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	en worth whitek whitek w	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	WILER WRITER MUTER WHITER	
TEK WAL	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	Tex writer writer writer w	ITEK JUN
ZD	IEC and CENELEC CODE DESIGNATIONS FOR	FLEXIBLE CORDS (EN)	Р





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AL.	14. 14. 2.	IEC62368-1	LIER WILLE WILL	ner an	1/2
Clause	Requirement – Test	C. Mr. Mr. M.	Result – Remark	at d	Verdict

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



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Unit	Aug Aug Aug B	IEC62368-1	ITEK WITEK WILLER WI	rie Muri	ang.
Clause	Requirement – Test	Mr. M. M.	Result – Remark	Ver	dict

5.2	TABLE: Classificat	ion of electrical er	nergy sourc	es		IF THE	N/A
Supply	Location (e.g.	Test conditions		Parame	ters		ES
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	~~
EX SUPER VILLE SINCE WITH		Normal	5.0VDC	A - A	SS	JC DC	ES3
5VDC	5VDC Input circuit	Abnormal	11/12 M		10, 1	70,	on tex
JUNITER JUN		Single fault – SC/OC	STEEL ST	et unitet mi	LIEK- WY	EK WALTER	
STEP ST	ALTER MALTER	Normal	4.2VDC	Ţ,	SS	DC	ES1
4.2VDC	Earbud battery	Abnormal	TER TOLIE	Write Will	422	11/2 11	. 20
TEK WALTER	VDG Laibud battery	Single fault – SC/OC	- CER	NIEK - WIEK	MILTER.	UNLIENT WINLE	ek wat
4.2VDC	TER SLIER MIT	Normal	4.2VDC	, - ~	SS	DC	ES1
	Charging box	Abnormal	رار ادیا (۱۷	TER STEELS	Viz- "	#167	Mer
	battery	Single fault – SC/OC	764 76	t wifet ou	IEK -	EK TEK	JALIEK V

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. Test Conditions:

3)

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

short circuit; OC= open circuit

SC=

5.4.1.8	TABLE: Working	y voltage measu	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
7. Mr.	21/2 11/1		get - get	JUEN CUEN	antie whit with wh
et let	LIER SITER	ULIER OFFICE V	he me	, <u>-</u>	2 11 - 11 S
Suppleme	entary information:				
TEX	LIER NITER IN	IL WILL AND	- 1n - 2n	, 4	et et tet stet

ature of thermoplastics			
: ISO 306 / B50		jt	Method
rer/trademark Thickness (mm) T softening (°	o./Material Manufacturer/tradema	Object/ Part No./Material M	
- TER STEE STEE STATE STATE WAS AND	The state of the s	20.	- 24
	/ information:	mentary ir	Suppleme
THE THE LIFE WITH JUST WITH THE	/ information:	mentary ir	Suppleme



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		IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

20, 1			49 AY		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17)	10.	
5.4.1.10.3 TABLE: Ball pressure test of thermoplastics								
Allowed im	pression diame	eter (mm)	:	≤ 2 m	m nute muit	Mr. C.		
Object/Part No./Material Man		Manufacturer/trademark	Thickness	Thickness (mm) Test temperature (°C)			ression eter (mm)	
7+ .c+	TEL ST	E NITER MITER WHITE	71/15 Tal			4	et di	
Supplemen	tary information	n:						
- 11	TEX JEX	SLIEB WIFE WHILE W	L. 24.	a.		- 1	t let	

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								
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)
STEEL WILL MULTER MALL MI	~ - a	-		J+ J0		T. E. K.	NITE IN	(E. <u>-0</u> /1)
Supplementary information:	·							
1) Only for frequency above 30 k Complete Electric Strength volta		(V) wh	en 5.4.2.	4 applied)	WALLEK W	nliek vir	LIER WALTE	2)

5.4.4.2	TABLE: Minimum distance through insulation									
Distance the (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)					
		TEL TEL TOP	- 4	T 2	. 15 A					
Supplement	tary information:									
*See also s	ub-clause 5.4.4.9	ier wire aug mu	20 20	A est	LET SET					

5.4.4.9	TABLE: Solid i	nsulation at	frequencies	>30 kHz			.4.	N/A
Insulation n	material	E P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)
THE WILLE	WHIT WILL	4100 111	`	- 15 16	! TEX	JEK RITER	-105	أحمان
Supplemen	tary information:							
E WILL	Will Will !	110. 111.		JL JF	A .	er der	J.	INC.

5.4.9	TABLE: Electric strength tests	i se de di	t Tex Jet	N/A
Test volta	age applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functiona	al:- Tex Life Nite wall.	me me m	70 7 2	t it is
in which	The The The	# JEK JIEK	THE WALTER WALTE	Mrs Mrs.
Basic/sup	pplementary:	20 20 20	e et et	LET JET
- 200	an an at it	E - JEH NITER IN	E WILL MILL	Mer - our
Reinforce	ed: the street with white	10, 10, 2	- A A	TEX JEX
716. 1	W VIII TEX	- ITEK NITEK MITE	- Write and an	1/1 1/



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, m	m w	IEC62368-1	in in
Clause	Requirement – Test	Result – Remark	Verdict

24. 25.				J 1/2	11. 2	
Routine Tests:						
and my my my		- JEE ST	E - nlie	write m	202	2/1
Supplementary information:				·		
the me me to	4 1	TEK JE		War West	alle	ap.

5.5.2.2	2.2 TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class	
TEK IS	TER MIT	White while a	Normal	oF ∧ê	f 10th 5	it still i	
764 .76	t TEX	TITEL MITEL	Single fault: SC/ OC	MULL - MULL	Mur - Mur	- LEK - C	

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: Resistance	e of protective conduc	ctors and terminat	ions J	N/A
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
THE ART YOUR STREET	Ye. 1. ""		T	· LO C
Supplementary information:				
t the the tier of	WELL MY MI	70	at at	LET LET

5.7.4	TABLE	E: Unearthed accessible parts								
Location		Operating and	Supply	F	Parameters		ES class			
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)				
L/N to secondary terminals		Normal	TEX - NITER	antile Tunti.	mer to	n ₂₁	-			
		Abnormal: overload			The state of the s	7 - TEX	LIEF WILE OF	ULIEK WHITEK WI	TEK WILL	er Wille
		Single fault: SC/ OC	24 <u>-</u> 27	# .<# . 5	et inter mili	enties	WALTER.			
Supplemer	ntary info	rmation:								
SC= short	circuit: C	C= open circuit		A 13		20	(C) (1)			

5.7.5	TABLE: Earthed acces	sible conductive part	at let a	Ex STEX VI	N/A
Supply volta	ge (V)	THE WITE WITE WALL	Mur. Mr.	20, 20,	_
Phase(s)		[] Single Phase; [] Three F	hase: [] Delta] Wye	
Power Distri	bution System	[] TN [] TT [] IT			
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt



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Le Mr	The said the said	IEC62368-1	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

	+	100000000000000000000000000000000000000	the the
- It I'M THE STATE STATE	The same of the sa		
Metal enclosure	neutral open	0.024	ES1
Supplementary Information:			
The city of the way	70 Tu	at at s	The City Of

5.8	TABLE	: Backfeed s	afeguard in battery	backed up	supplies	et set	N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
-11, 11	. In	, <u>,</u> ,		ET COTTER	White - White	mr m	7/12
Supplement	tary infor	mation:					
me in	-0.	7	L A JET	LIE W	LIV WILL W	in an	2n. 2n.

6.2.2	TABLE: Power source	e circuit classif	ications	CLIFE SIL	LIV WALL	Mr. Burn
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
5V Input circ	uit Pin + to -	5.0	0.417	2.085	5S	PS1
Earbud batte	ery Output pin + to -	3.8	0.65	2.47	5S	PS1
Charging both	Output pin + to -	3.8	0.34	1.29	5S	PS1

Supplementary information:

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

6.2.3.1 TABLE: Dete	rmination of Arcing PIS	TEX STEX SIT	INLIE WALL	N/A
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
- 1 1 1	EX TEX TEXT WALT	Mur - Mur	21/2 - 21/2	
Supplementary information				
	A A ST	all all a	V. 24. 20.	

6.2.3.2	TABLE: Determi	ABLE: Determination of resistive PIS			
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No	
All primary circuits/com	ponents	WALTER WALL WALL WALL	TEX TEX TEX ON	Yes (declaration)	
Supplement	ton, 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.

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.



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Unit	Aug Aug Aug B	IEC62368-1	ITEK WITEK WILLER WI	rie Muri	ang.
Clause	Requirement – Test	Mr. M. M.	Result – Remark	Ver	dict

Particle found beyond 1 m Yes
/ No
- 18th 18th

9.6	TABL	E: Temper	ature mea	suremen	ts for wirel	ess power	transmitte	ers	N/A
Supply vo	ltage (V).				TEK JE	CLIER.	WILLE WY	TI MUE	
Max. tran	smit powe	er of transn	nitter (W)		711	- 14°	st st	* (6)	_
			eiver and contact		eiver and contact		ver and at of 2 mm		ceiver and ce of 5 mn
Foreign	objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambie (°C)
WALLE S	11- M	i 210	17/1		A	x -18x	- LT-1874 .	VITER- JAY	in which
Suppleme	entary info	rmation:							•
NLT SIN	2 / JU.	V 22.	FA		.td.	Alt-		CE CLIV	all Line

5.4.1.4, 9.3, B.1.5, B.2.6	E: Temp	perature m	easuremo	ents	WALTER	WILL WALL	WALTER	Print
Supply voltage (V)			:	4.2VDC	JE# ~	III NATES	NALL W	_
Ambient temperatu	Ambient temperature during test \mathcal{T}_{amb} (°C):						- Ja-	_
Maximum measured temperature <i>T</i> of part/at:					Allowed T _{max} (°C)			
Surface of Earbud	27.0	124	JE4	JER -UE	60			
Surface of Chargin	Surface of Charging box battery				nu	111 - 111		60
Internal wire	m.	11, 1,		26.7	JE -	LITER TOLINE	NATE .	80
Internal enclosure	JE*	alifer mi	ie. aur	26.4	1/2 - 2/	~	7.	Ref.
External enclosure	10 10	, , , , , , , , , , , , , , , , , , ,		26.3	JEH J	TEN ME	in liter - wir	77
Botton	SEP N	TEK WITE	ME	27.6	70,		J+ ,	- 77
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
The walk walk	Mr.	20,-	·	A - A	-76t	SE S	EL TELLE	WILL WILL

Supplementary information:

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

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



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The water	All All All	IEC62368-1	ITER MILITER MALITER WAS	rie Mirry Mary
Clause	Requirement – Test	VII. MUT. All AL	Result – Remark	Verdict

B.2.5	T	ABLE: Inp	out test	- 211			* (4)	- THE LIFE NUTE MILE		
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status		
5VDC	,	0.21	0.3	1.05	WALER .	UN LIFE	MUT.	Powered by 5VDC with empty battery (at battery charging mode)		
4.2VDC	.n.i	0.25	united (1.05	NITEH W	. LITER W	erier an	Charging box battery (Discharging mode with fully charged battery)		

Supplementary information:

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

B.3, B.4	TABLE: Abnor	mal operating	g and fau	It condit	ion tests	the men were a	P
Ambient tem	perature T _{amb} (°C)		····	: See b	elow	_
Power source	ce for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng:	The The Th	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	1
Speaker	sc sc	4.2	30min	# - .	0.024	Speaker no voice, no o hazard.	damage,no
Powered by	5VDC with emp	oty battery (at	battery ch	arging m	ode)	1 L 14	A 1
B+ to P-	SC	5VDC	7h	WATER.	0.417	Unit normal working, n damaged, No hazard.	0 3/15
Capacitance	e SC	5VDC	10mins	MITELY 1	0.01	Unit shut down, no dai hazard.	maged, No
Powered by	Li-ion Battery (l	Discharging m	node with t	fully char	ged battery)	TEX JEX STER	WILLER V
B+ to B-	- SC	4.2VDC	10min	ie -wri	0	Unit shut down, no dai hazard.	maged, No
C1	SC	4.2VDC	10min	NA VIE	0.01	Unit shut down, no dai hazard.	maged, No
B- to P+	sc	4.2VDC	7h	NAILEY.	0.042	Unit shut down, no dai hazard.	maged, No

Supplementary information:

- ¹⁾ Supply by external DC source, ²⁾ Measured battery cell voltage and current. Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.
- 1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) Limit temperature: Plastic material: 87°C



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1101010110011	on Will Zobolococciti	. age ee e. c		.€√ .	\sim
" WILL		IEC62368-1			21/2
Clause	Requirement – Test	r. 24. 20.	Result – Remark	t .	Verdict

21/2 211 2		4		J- 1	56° 25	Ø		700	are an	20	
M.3 TABLI	E: Prote	ection circu	its f	or batterie	es provid	ed v	vithin	the equ	ipment	, P+	
Is it possible to insta	II the ba	attery in a re	vers	e polarity _l	position?.	:	J. E. F.		The whire	_	
					C	Char	ging			<u>'</u>	
Equipment Specifica	ition		Vo	Itage (V)				Current (A)			
	2	White wh	Ċ.	5Vdc	20, 2	•	3	A	Current (A) 0.3A able batteries Discharging current (A) 0.5 vailable. 10-55 ge Observation Unit shutdown		
					Battery	/ spe	ecifica	tion			
	N	Non-rechargeable batteries					Red	hargeab	le batteries		
		Discharging	Unintentional		Charging				0 0	Reverse	
Manufacturer/typ		current (A)		narging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)	
Dongguan Tians Calibration and Tes Co.,Ltd / 602025	ting	WALTER	ALTE	-with	3.7	المالي. التاليا	C	0.03	0.5	MALTER WAL	
Note: The tests of M	3.2 are	applicable c	nly v	vhen abov	e appropr	iate	data i	s not ava	ilable.		
Specified battery ter	nperatu	re (°C)				:	11/1 ¹	. NAC.	10-55	Y	
Component Fau No. condi		Charge/ lischarge mo	ode	Test time	Temp.		rrent (A)	Voltage (V)	Obse	ervation	
Battery (charge base) (C6)		Charge	uni Te	7h'	ALTER SLITER		0	0	immediate Recoverab	ly.	
Supplementary infor	mation:	/ <u>A</u>	77	SUD.					damaged,		

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

	TABLE: pattery	Charging sa	feguards for	equipment c	ont	aining a se	econdary lithium	JIN P
Maximum sp	ecified	charging voltag	ge (V)		:	4.0	TEK STEK	_
Maximum sp	ecified (charging curre	nt (A)		NAC.	5	me me	_
Highest spec	ified ch	arging tempera	ature (°C)			55	LIEK NITER ON	
Lowest speci	ified cha	arging tempera	ture (°C)		···:	10	10 20 20	
Battery		Operating Measurement and fault					Observat	on
manufacturer	nufacturer/type		Charging voltage (V)	Charging current (A)		Temp. (°C)		
Lowest speci	fied cha	rging temperat	ure: 10°C (Bat	tery (charge b	ase)) wr	m. m.	in a
Dongguan Tia Calibration ar Testing Co.,L	nd	Normal	4.20	0.022	te	Battery mperature: 10°C	The battery chargi decreases	ng current
602025		Abnormal-		- 144	(Et	Natice All	LIE WALL WAL	2/L
		Single fault – (U1 pin 2-	4.20	0.001	te	Battery mperature:	The battery chargi decreases	ng current



Reference No.: WTF23D01000398R1Y

Lange Mary	Mr. Mer All Mr.	IEC62368-1	LIER WITER WALLER WA	The Marie Marie
Clause	Requirement – Test	MUE, MILL MILL	Result – Remark	Verdict

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A 18	6)	LIE MLTE	21/25. 276	10°C	a state
Highest specified cha	rging temperat	ure: 55°C (Ba	ttery (charge	base))	EL WILL WALL WALL
Dongguan Tiansu Calibration and Testing Co.,Ltd /	Normal	4.20	CEL CITER	Battery temperature: 56.2°C	The battery charging circuit stop charging
602025	Abnormal-	mr. m.	2,	Jr Jr.	TEK STEK STEK MIT
MILIER MUTIES M	Single fault 4.20 – (U1 pin 2-6)		0°	Battery temperature: 56.2°C	The battery charging circuit stop charging
Lowest specified cha	rging temperati	ure: 10°C (Bat	tery (earbuds	3))	
Dongguan Yifan Electronics Co. Ltd / 451012 Highest specified cha	Normal 4.20		0.003	Battery temperature: 10°C	The battery charging current decreases
	Abnormal-	1 2 	EX INTER	VILL MULL	The Mr. M. M.
et writer writer	Single fault – (C6)	4.20	0.001	Battery temperature: 10°C	The battery charging current decreases
Highest specified cha	rging temperat	ure: 55°C (Ba	ttery (earbud	s))	THE WITE WALL WALL
Dongguan Yifan Electronics Co. Ltd / 451012	Normal	4.20	TEN STEE	Battery temperature: 55.8°C	The battery charging circuit stop charging
Electronics Co. Ltd / 151012 Highest specified cha Dongguan Yifan Electronics Co. Ltd /	Abnormal-	7 7 80	, I ,		- A THE STEEL STEEL
AUTER MUTER	Single fault – (C6)	4.20	0	Battery temperature: 55.8°C	The battery charging circuit 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	TABLE: Circuits inte	ABLE: Circuits intended for interconnection with building wiring (LPS)						
Output	Condition	11 (\(\(\) ()	T' (.)	Isc	(A)	S (VA)		
Circuit	Condition	U _{oc} (V) Time (s)		Meas. Limit		Meas.	Limit	
21/2 21/1	70. 1	et Jet	- LIEN O	LIE WILLE	WALL IN	ve av	10, 1	
	M. OLITER WILLE WA	21. 1012	20, 20,	4	. At .	CENT SEP	all Filt of	
	4 14 14	y Jest	NITER WIT	MILL	Mrs. Mrs	Me	20, 20,	
TEX SIEK	WILL WALL WALL	111 1		At-	Let Le	- TEN	LIER OLI	

Supplementary Information:

SC = short circuit, OC = open circuit* Unit shutdown immediately, recoverable, no hazard.

T.2, T.3,	TABLE: Steady force test	P
T.4, T.5	THE STEEL STEEL STEEL WITH WITH WITH WITH	211 211



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Unit	Aug Aug Aug B	IEC62368-1	ITEK WITEK WILLER WI	rie Muri	ang.
Clause	Requirement – Test	Mr. M. M.	Result – Remark	Ver	dict

Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosure top(T.4)	Plastics*	See table 4.1.2	71/2 1	100	5 STEEL STEEL	Enclosure remained intact, no crack/ opening developed
Enclosure side(T.4)	Plastics*	See table 4.1.2	nli"— wh	100	5	Enclosure remained intact, no crack/ opening developed
Enclosure bottom (T.4)	Plastics*	See table 4.1.2	TEK - WILL	100	5	Enclosure remained intact, no crack/ opening developed

Supplementary information:

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

T.6, T.9 TA	ABLE: Impa	ct test	N/A		
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	
an an	211	3. st	EF JE	NITE WILL WALL WALL WALL WALL	
Jet 5	Y SUIET	MITE WILL WI	r. 14	the state of the s	
mr m	70,	at at a	it lifet	NITE WILL WILL WALL WITH THE TO	
Supplementary	/ information	1:			
*Test was perfe	ormed on pr	oduct with each so	urce listed in	table 4.1.2.	

T.7	TABLE: Drop	test		ER WILL WILL MIN MY ME BY
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure Top	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Side	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Enclosure Bottom	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.

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

T.8	TABLE: Stress relief test						
Location/Par	t 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.		
Supplementa	Supplementary information:						

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



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The Maria	My My My	IEC62368-1	ITER INLIER WHITE W	THE MULL MILL
Clause	Requirement – Test	Will All M. M.	Result – Remark	Verdict

TABLE. Alterna	tive method for determining	, minimum ologi gilooo	distances N/A	
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)	
- 74 A	LET LET STEP VILL	while and an	14. 24. 2	
Supplementary information:				

4.1.2	TABLE: Critical components information							
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹			
Plastic enclosure	CHI MEI CORPORATION	PA-757(+)	HB, 80°C, Min. Thickness 1.5mm	UL 94, UL 746	UL E56070			
Charging box battery	Dongguan Tiansu Calibration and Testing Co.,Ltd	602025	3.7V, 300mAh	IEC 62133- 2:2017	Report No.: TCTTJ2021 0109696ZB- BR05			
Earbud battery	Dongguan Yifan Electronics Co. Ltd	451012	3.7V, 35mAh	IEC 62133- 2:2017	Report No.: TCTTJ2021 0107599ZB- BR02			
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GDM-C3, ILM- C3	V-0, 130°C	UL 796	UL E330731			
Alternative	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL TOTAL			

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

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Photo Documentation





Photo 1



Photo 2



Photo Documentation





Photo 3



Photo 4

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Photo 5



Photo 6

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Photo Documentation





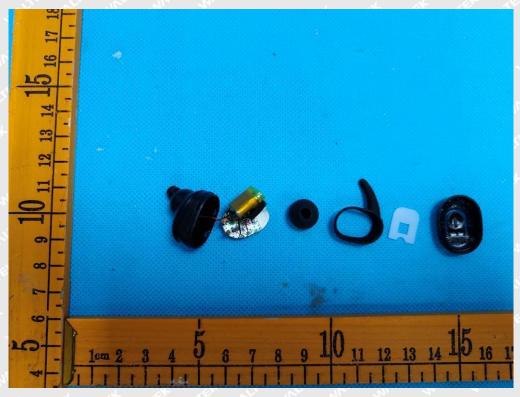


Photo 7



Photo 8



Photo Documentation



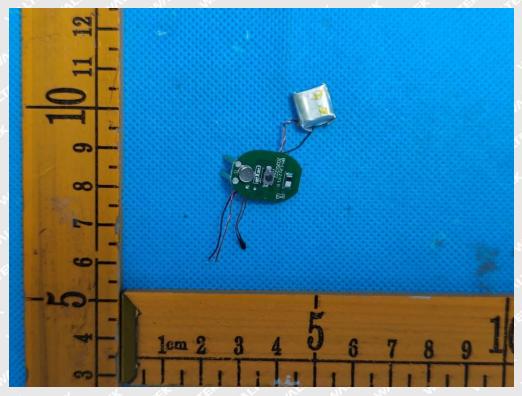


Photo 9

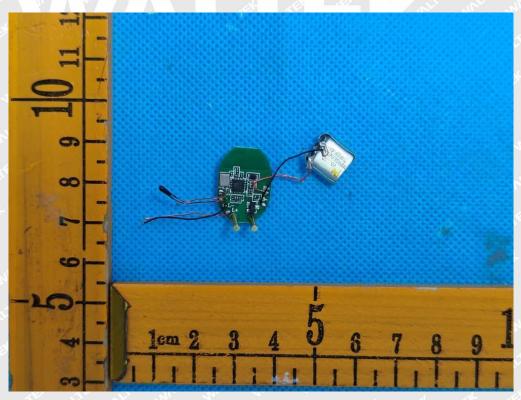


Photo 10

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Photo Documentation





Photo 11

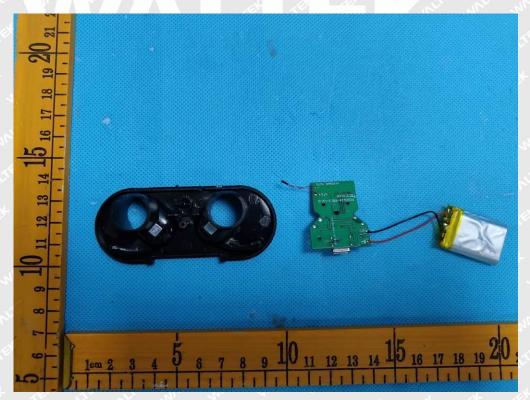


Photo 12

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Photo Documentation



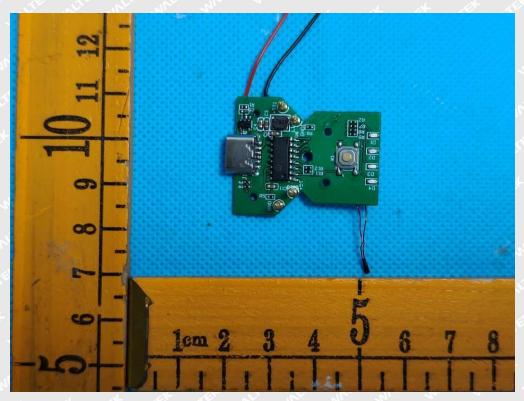


Photo 13

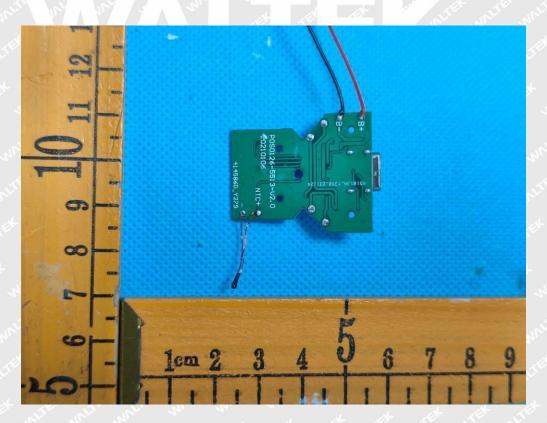


Photo 14



Photo Documentation

Reference No.: WTF23D01000398R1Y



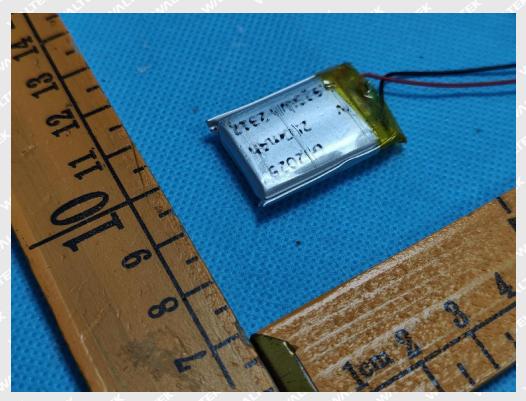


Photo 15

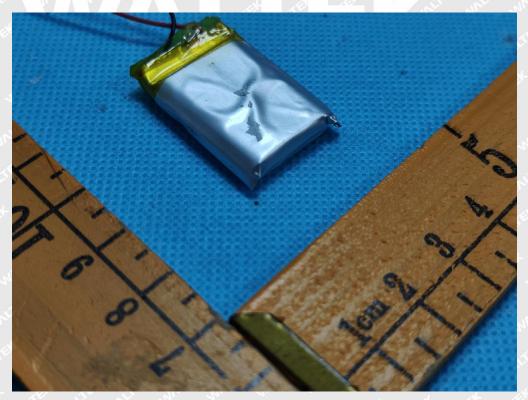


Photo 16

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

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