



TEST REPORT

Reference No.....: WTF25D02033950Y

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

Hong Kong

Manufacturer..... : 114768

Product.....: TWS earbuds with charging base, TWS earbuds in bamboo case

Model(s)..... : MO6128, MO6780

Total pages : 68 pages and 10 pages of photo.

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2025-02-21

Date of Test...... 2025-02-21 to 2025-03-04

Date of Issue..... : 2025-03-10

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.

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Grace

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Grace Feng/ Project Engineer

Almon Zhao / Designated Reviewer



Test item description:	TWS earbud	s with charging base, TWS earbuds in bamboo case
Trademark:	MOE	LEX OUTEX WHITE WHITE WHITE WHITE WHITE
Model and/or type reference:	MO6128, MC	
Rating(s):	5V DC	
Remark:	A St	ITER ALTER MILIER WALLE WALL WALL WILL
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 ST	the write while when any on the
Summary of testing:	21/2 24	the state and the state of the state of
Tests performed (name of test and te	est clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020		No. 77, Houjie Section, Guantai Road,
The submitted samples were found to on the requirements of above specification		Houjie Town, Dongguan City, Guangdong, China
Summary of compliance with Nation EU Group Differences	ai Dillerences	s (List of countries addressed).
	of EN IEC 623	368-1:2020+A11:2020.
Use of uncertainty of measurement f	or decisions	on conformity (decision rule):
applicable limit according to the specific	cation in that s	when comparing the measurement result with the tandard. The decisions on conformity are made le acceptance" decision rule, previously known as
☐ Other:(to be specified, for example requirements apply)	when require	ed by the standard or client, or if national accreditation
Information on uncertainty of measu	rement:	
		the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
the decision rule when reporting test re	sults within IE	of measurement uncertainty principles and applying CEE scheme, noting that the reporting of the ecessary unless required by the test standard or
Calculations leading to the reported val	ues are on file	with the NCB and testing laboratory that conducted

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the testing.



Copy of marking plate:

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



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 CEmarking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



TEST ITEM PARTICULARS:	Will me my my the fit
Product group	⊠ end product □ built-in component
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply Connection:	☐ AC mains☐ DC mains☐ not mains connected:☐ ES2☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	☐ UK: 13 A; Others: 16 A; Location:☐ building ☐ equipment ☑ N/A
Equipment mobility:	□ movable □ hand-held □ transportable □ direct plug-in □ stationary □ for building-in □ wall/ceiling-mounted □ SRME/rack-mounted □ other: □ other: □ other: □ others
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC IV □ OVC III
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)	⊠ Approx. 0.043kg



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POSSIBLE TEST CASE VERDICTS:	the way we have the
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	AND THE THE T
Date of receipt of test item:	2025-02-21
Date (s) of performance of tests:	2025-02-21 to 2025-03-04
GENERAL REMARKS:	LIFE BLIFE MILE MILL WILL WILL WILL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to the Throughout this report a □ comma / ⋈ point is u	he report.
GENERAL PRODUCT INFORMATION:	to the street with white white white
Product Description	THE TEX TEX TEX WITH WITH WITH
The EUT covered by this report is a TWS earbuds used as audio / information apparatus.	s with charging base, TWS earbuds in bamboo case

- 2. All models arehavethe same components and internal construction, except for the different model names and enclosure materials, Model MO6128 with plastic enclosure, model MO6780 with bamboo enclosure.
- 3. It is supplied by external power supply or by approved internal lithium-ion battery or USB type-Cwhich complied with PS1.
- 4. The manufacturer specified maximum ambient temperature is 25°C.5. All circuits complied with ES1 and PS1, no other circuit existed.
- 6. The acoustic energy sources were tested according to EN 50332-2, test report ReferenceNo. WTF25X02033951Y.



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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	
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	Enclosure	N/A	N/A	N/A	
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 substances				
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
Battery(See Annex M)	Ordinary	N/A	N/A	N/A	
8	Mechanically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED for indicating	Ordinary	N/A	N/A	N/A	
RS2:Sound output	Ordinary	Instructional safeguards	N/A	N/A	

	ENERGY SOURCE DIAGRAM	
Indicate which er	nergy sources are included in the energy source diagram. Insert diagram below	
me me	☐ ES ☐ PS ☐ MS ☐ TS ☐ RS	Κ
Et LEY	See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS	



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	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
14. 21.		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	W.A
4.1.2 united	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	TEX WA
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C):	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	INT P
4.4.3.1	General	1 1/1 1/1	Р
4.4.3.2	Steady force tests	(See Annex T.4and T.5).	N/A
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	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
ir. Mer	Glass impact test (1J)	LIER NITER WALTER WALLE	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E MILL MILL MILL MILL	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	TITES THE MITTER	N/A
4.4.5	Safety interlocks	· Mr. Art Art	N/A
4.5	Explosion	ALTER WITE MALTE WALL O	N/A
4.5.1	General		N/A
4.5.2	No explosion during normal/abnormal operating condition	Multin Multi Multi Min	N/A
11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No harm by explosion during single fault	t tet tet alle mill	N/A

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

<i>J</i> +	conditions	10 10	الد يا
4.6	Fixing of conductors	I LIER ALTER WALTER WALTE	N/A
	Fix conductors not to defeat a safeguard	An An An A	N/A
Try and	Compliance is checked by test	LIER NITER WHITE WHITE	N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	The state of	N/A
4.8	Equipment containing coin/button cell batterie	S put on the	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	In the state of	N/A
4.8.3	Battery compartment door/cover construction	LIER WITE WHILE WHILE	N/A
y 184	Open torque test	a state	N/A
4.8.4.2	Stress relief test	LER WILL MULL MULL MA	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test	White while while whe	N/A
4.8.4.5	Impact test	THE THE	N/A
4.8.4.6	Crush test	2 Shir shir	N/A
4.8.5	Compliance	The The	N/A
40,	30N force test with test probe	is me me a	N/A
CLIFER	20N force test with test hook	of the test start of	N/A
4.9	Likelihood of fire or shock due to entry of cond	ductive object	N/A
4.10	Component requirements	- TEK LIEK ALTER MITE	N/A
4.10.1	Disconnect Device	mr mr m	N/A
4.10.2	Switches and relays	THE THE LITER DITTER	N/A

5	ELECTRICALLY-CAUSED INJURY Classification and limits of electrical energy sources		TEL PALTE
5.2			Р
5.2.2	ES1, ES2 and ES3 limits	All internal circuits are considered to be ES1	P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	ΔP
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	Mr. Mr. Mr. M. M.	N/A
5.3	Protection against electrical energy source	S of the test of the out	N/A



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Clauso	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	the text text with	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	The Me My My	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	NIFEK WHITEK WHITEK WHITE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit	N/A
- Kerk	Accessibility to outdoor equipment bare parts	e et et et.	N/A
5.3.2.2	Contact requirements	White whit will will	N/A
TEK N	Test with test probe from Annex V	A A A A S	<u> </u>
5.3.2.2 a)	Air gap – electric strength test potential (V)	Write Mrs. Mrs. Mrs.	N/A
5.3.2.2 b)	Air gap – distance (mm)	at at all out	N/A
5.3.2.3	Compliance	The Mary May My	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	. Aller Alex All Al	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	Mu Zu Zu	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	MAL! P
5.4.1.5	Pollution degrees	The life life	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	t of the top	N/A
5.4.1.5.3	Thermal cycling test	Marie Mrs. Mrs. M.	N/A
5.4.1.6	Insulation in transformers with varying dimensions	at at the to	N/A
5.4.1.7	Insulation in circuits generating starting pulses	White Mut Mus Miles	N/A
5.4.1.8	Determination of working voltage	et tet tet tiet steet	N/A
5.4.1.9	Insulating surfaces	in my my m	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	ES MILIES MILIES MILIES W	N/A
5.4.1.10.2	Vicat test	- It let let i	N/A
5.4.1.10.3	Ball pressure test	MULL MULL MULL AND	N/A
5.4.2	Clearances	at the the stee	N/A
5.4.2.1	General requirements	ner mer mer an	N/A
TER WALTE	Clearances in circuits connected to AC Mains, Alternative method	LIER WHITER WHITER WHITER	N/A
5.4.2.2	Procedure 1 for determining clearance	at the left that	N/A
20, 1	Temporary overvoltage	White Aut Aut A	_
5.4.2.3	Procedure 2 for determining clearance	at at at a	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3.2.2	a.c. mains transient voltage	The Age of	
5.4.2.3.2.3	d.c. mains transient voltage	STEP ALTER MATER	white —
5.4.2.3.2.4	External circuit transient voltage	The things	<u> </u>
5.4.2.3.2.5	Transient voltage determined by measurement	NITE WILL WALL V	ni _
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE STIET WITH MA	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t tet stet site	N/A
5.4.2.6	Clearance measurement	me me m	N/A
5.4.3	Creepage distances	TEX STEE BUTE	N/A
5.4.3.1	General	111 111 111	N/A
5.4.3.3	Material group	LIER OLITER MALTER AND	77, 7
5.4.3.4	Creepage distances measurement	, , , , , , , , , , , , , , , , , , ,	A N/A
5.4.4	Solid insulation	ER WILL MULE MALL	N/A
5.4.4.1	General requirements	* * * * * * * * * * * * * * * * * * *	N/A
5.4.4.2	Minimum distance through insulation	White Murit Muri	N/A
5.4.4.3	Insulating compound forming solid insulation	At JEX	N/A
5.4.4.4	Solid insulation in semiconductor devices	" " " " " " " " " " " " " " " " " " "	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	in mur mur m	N/A
5.4.4.6.1	General requirements	et tet tet sit	N/A
5.4.4.6.2	Separable thin sheet material	Mr. Mr. M.	N/A
unite un	Number of layers (pcs)	TEN LIEN NITER	N/A
5.4.4.6.3	Non-separable thin sheet material	mer mer m	N/A
Tile Mill	Number of layers (pcs)	TEN STEEL WITE IN	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	est lest lest lest	N/A
5.4.4.6.5	Mandrel test	in my m	N/A
5.4.4.7	Solid insulation in wound components	- THE THE LIFE	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	Whe who we	N/A
TEX TEX	Alternative by electric strength test, tested voltage (V), K _R	muri muri muri	N/A
5.4.5	Antenna terminal insulation	LIER MALTE MALL WA	N/A
5.4.5.1	General	e e e e	→ N/A
5.4.5.2	Voltage surge test	" WILL MAY MUST	N/A
5.4.5.3	Insulation resistance (MΩ)	1 1	N/A



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- "	EN IEC 62368-	2 41 42 3	1
Clause	Requirement – Test	Result – Remark	Verdict
- (h	Electric strength test	mr. mr. mr.	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	White White White W	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WHITER WHITER WHI	N/A
5.4.8	Humidity conditioning	at alt alt all	N/A
TEX.	Relative humidity (%), temperature (°C), duration (h)	were and an	<u> </u>
5.4.9	Electric strength test	WILL WILL MALL	N/A
5.4.9.1	Test procedure for type test of solid insulation	at the set of	N/A
5.4.9.2	Test procedure for routine test	aletic aletical and an	N/A
5.4.10	Safeguards against transient voltages from external circuits	LIEK WILEK WALTER WALT	N/A
5.4.10.1	Parts and circuits separated from external circuits	i it it it	N/A
5.4.10.2	Test methods	er while while while	N/A
5.4.10.2.1	General	at at at	N/A
5.4.10.2.2	Impulse test	White Mur Mur M	N/A
5.4.10.2.3	Steady-state test	A TEX	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	The sure sure	N/A
5.4.11	Separation between external circuits and earth	LIER WALL MALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	* NITER WITER WAITER	N/A
5.4.11.2	Requirements	W 12	N/A
mer me	SPDs bridge separation between external circuit and earth	MILITER WILLIE MILLE WI	N/A
	Rated operating voltage U _{op} (V)	TEX STEEL OUTER WITH	
+ , j.+	Nominal voltage U _{peak} (V)	L. 14. 15. 1	_
MULL	Max increase due to variation ΔU _{sp}	EK RITER WITE WALL	_ u
CENT.	Max increase due to ageing ΔU _{sa}	The state of	_
5.4.11.3	Test method and compliance	WITE WALL WALL V	N/A
5.4.12	Insulating liquid	at at at	N/A
5.4.12.1	General requirements	MILL MULL MULL MULL	N/A
5.4.12.2	Electric strength of an insulating liquid	at all the se	N/A
5.4.12.3	Compatibility of an insulating liquid	The Mer Mur Mur Mur	N/A
5.4.12.4	Container for insulating liquid	of let let let	N/A
5.5	Components as safeguards	Mur ale ale	N/A
5.5.1	General	No such components as safeguards.	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
J.14450	The state of the s	TOTAL TOTAL	Voluiot
5.5.2	Capacitors and RC units	11, 21, 21,	N/A
5.5.2.1	General requirement	LIEF SLIEF SOLIEF	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	Tet Tet Tet 1	N/A
5.5.3	Transformers	the the the	N/A
5.5.4	Optocouplers	TEX LIEX SLIER MIT	N/A
5.5.5	Relays	The things	N/A
5.5.6	Resistors	A STEE WITE WITE	N/A
5.5.7	SPDs	201 21	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	MILIER WHITE WALTER OF	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	STEE WALTER WATER WA	N/A
ALTER MALTER	RCD rated residual operating current (mA)	et let let life	· —
5.6	Protective conductor	Alle Alle Alle	N/A
5.6.2	Requirement for protective conductors	t get get get	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	ALT STEEL	N/A
5.6.3	Requirement for protective earthing conductors		N/A
in white	Protective earthing conductor size (mm²)	TE ALTE WITH WALL	<u> </u>
L SINITER	Protective earthing conductor serving as a reinforced safeguard	of the tree with	N/A
TIEK (Protective earthing conductor serving as a double safeguard	and and and	N/A
5.6.4	Requirements for protective bonding conductors	White Aller Aller A	N/A
5.6.4.1	Protective bonding conductors	at let tet a	N/A
3	Protective bonding conductor size (mm²)	ier mer me m	_
5.6.4.2	Protective current rating (A)	et jet liet out	N/A
5.6.5	Terminals for protective conductors	21/2 21/2 20	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	WALTER WHITER WHITER	N/A
WILE AND	Terminal size for connecting protective bonding conductors (mm)	MITEL MALIER WALTER	N/A
5.6.5.2	Corrosion	at at at	⊘ N/A
5.6.6	Resistance of the protective bonding system	TE MULL MULL MU	N/A
5.6.6.1	Requirements	A A A A A	N/A
5.6.6.2	Test Method	MULL MULL MULL	N/A
5.6.6.3	Resistance (Ω) or voltage drop	at at at	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.6.7	Reliable connection of a protective earthing conductor	the text text and	N/A
5.6.8	Functional earthing	me me m	N/A
liet and	Conductor size (mm²)	TEX TEX STEE STEE	N/A
AL 13	Class II with functional earthing marking	he me me	N/A
MALTE	Appliance inlet cl &cr (mm)	THE STEE STEET STATES OF	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	ex alter miter unite and	N/A
5.7.2.1	Measurement of touch current	20 2 x x x	N/A
5.7.2.2	Measurement of voltage	CLIEB WILL WALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	THE STEE STEE WITH	N/A
5.7.4	Unearthed accessible parts	- 14 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.7.5	Earthed accessible conductive parts	EX SITES ONLINE ON	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	TER THE STEEL OF	N/A
4	Protective conductor current (mA)	The Au Au	N/A
ALTE WA	Instructional Safeguard	AL STEE MITE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables	in the the the	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	MULTER WALTER WALTER WA	N/A
5.7.8	Summation of touch currents from external circuits	THE MITER WALTER	N/A
LIEK MAL	a) Equipment connected to earthed external circuits, current (mA)	TER LIER WITER WITER	N/A
EK OLIEN	b) Equipment connected to unearthed external circuits, current (mA)	at get get get	N/A
5.8	Backfeed safeguard in battery backed up supp	lies which the terms of	N/A
MITER	Mains terminal ES	No battery used	N/A
1	Air gap (mm)	The All Mr. Ly	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		LIE P LIE
6.2.2	Power source circuit classifications	All internal and output circuits are considered to be PS1 circuits.	TEX WITEK
6.2.3	Classification of potential ignition sources	See the following details.	N/A



in.	EN IEC 62368-	The wife while while a	11. 101.
Clause	Requirement – Test	Result – Remark	Verdict
The .	White the state of the state of	Ex Mile Mary Mary Mary	din.
6.2.3.1	Arcing PIS	All internal circuits are not considered as arcing PIS.	t TEX
	The state of the s	They are supplied by external	N/A
	FE LIER WIFE WITE WHILE WHILE	power supply whose open	TEX.
in and	Who has a feet	voltage is less than 50V.	21/2° 1
6.2.3.2	Resistive PIS	All internal circuits of PS1 circuits	N/A
6.3	Safaquarda againet fire under normal energting		Р
0.3	Safeguards against fire under normal operating and abnormal operating conditions		EX JIE
6.3.1	No ignition and attainable temperature value less	(See appended table 5.4.1.5,	√ ⁰ P
	than 90 % defined by ISO 871 or less than 300 °C	6.3.2, 9.0, B.2.6)	TEX.
mr. an	for unknown materials		an-
	Combustible materials outside fire enclosure	At least HB, or pass the Glow- Wire test at 550°C according	P
	With Mile to the little to	to IEC 60695-2-11.	11, 11
6.4	Safeguards against fire under single fault conditions		P.
6.4.1	Safeguard method	Method by control of fire	Р
		spread applied	* (C)
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	White must make my	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	The market market	N/A
6.4.3.1	Supplementary safeguards	The Set	N/A
6.4.3.2	Single Fault Conditions	is any any a	N/A
NITE	Special conditions for temperature limited by fuse	of the the state of	N/A
6.4.4	Control of fire spread in PS1 circuits	All internal circuits of PS1	Р
_UTER	i the angle while wall will be a second	circuits	CLIFER
6.4.5	Control of fire spread in PS2 circuits	MULL MULL MULL AND	N/A
6.4.5.2	Supplementary safeguards	Et TEX JEX JEX	N/A
6.4.6	Control of fire spread in PS3 circuits	VI. AM. AM. AM.	N/A
6.4.7	Separation of combustible materials from a PIS	Et TEX TEX LITER O	N/A
6.4.7.2	Separation by distance	. Mr. Mr. M. M.	N/A
6.4.7.3	Separation by a fire barrier	- THE LIFE SUPER INCL	N/A
6.4.8	Fire enclosures and fire barriers	Only PS1 circuit , no fire enclosures or barriers required	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	White many many makes	N/A
6.4.8.2.1	Requirements for a fire barrier	et tet tet tet	N/A
6.4.8.2.2	Requirements for a fire enclosure	The Mary Mary Miles	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	A WILLER WHITER WHITER WA	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A



Р

Р

Ρ

Reference No.:WTF25D02033950Y

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Clause	Requirement – Test	Result – Remark	Verdict
6.4.8.3.2	Fire barrier dimensions	No fire barrier used.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
at a	Openings dimensions (mm)	The state of	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
Et JEH	Openings dimensions (mm)	a state of	N/A
- TEK	Flammability tests for the bottom of a fire enclosure	it will mail must be	N/A
ALLE V	Instructional Safeguard	ALIER MITE MILL WALLE	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
ine in	Openings dimensions (mm)	OLITE MILLE MILLE WALL	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	TEX TEX NUTEX MUTEX	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	et set set set sint	N/A
6.4.9	Flammability of insulating liquid	The Mr. M. A.	N/A
6.5	Internal and external wiring		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
6.5.2	Requirements for interconnection to building wiring	No such wire used	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to a	dditional equipment	Р
211 211	1 1 11 11	alite with white white	7/1
7	INJURY CAUSED BY HAZARDOUS SUBSTANC		P
7.2	Reduction of exposure to hazardous substance	est with the man	N/A
7.3	Ozone exposure	the text text	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
CLER	Personal safeguards and instructions	at the text of	_
7.5	Use of instructional safeguards and instruction	is we are an	N/A
neter in	Instructional safeguard (ISO 7010)	THE THE THE STATE	_
7.6	Batteries and their protection circuits	mur mur mr m	Р
8	MECHANICALLY CALICED IN HIDY		Р
	MECHANICALLY-CAUSED INJURY		

Mechanical energy source classifications

Safeguards against mechanical energy sources

Safeguards against parts with sharp edges and corners

8.2

8.3

8.4



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01	EN IEC 62368-	2 41 72 2	N/ P. 4
Clause	Requirement – Test	Result – Remark	Verdict
8.4.1	Safeguards	the we are a	Р
White WA	Instructional Safeguard:	MS1: Edges and corners of enclosure	P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	MILLI P.
8.5	Safeguards against moving parts	choosile are rounded.	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
Mary M	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
incie uni	Moving MS3 parts only accessible to skilled person	LIEF SLIET MITTER WALLE	N/A
8.5.2	Instructional safeguard:	nit in the state of	N/A
8.5.4	Special categories of equipment containing moving parts	LIER WHITE WILLER WHILE	N/A
8.5.4.1	General	EX LIEX NIET WITE OF	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	10. 10. 10. 1	N/A
8.5.4.2.1	Protection of persons in the work cell	LITER OLITER MALIER MALI	N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system	THE WALL WALL	N/A
8.5.4.2.2.2	Visual indicator	the life	N/A
8.5.4.2.3	Emergency stop system	ite weit wer wir a	N/A
MALTER	Maximum stopping distance from the point of activation (m)	A MITER MITER WHITER WAS	N/A
WILLER	Space between end point and nearest fixed mechanical part (mm)	The still writer while	N/A
8.5.4.2.4	Endurance requirements	The state of	N/A
T WE	Mechanical system subjected to 100 000 cycles of operation	NITER WALTER WALTE WALLE	N/A
E WILLE	- Mechanical function check and visual inspection	EX LIEX NIEX INLIES IN	N/A
	- Cable assembly	41. 42.	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	White white white who	N/A
8.5.4.3.1	Equipment safeguards	TEX TEX STEE WITE	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	me m m	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):	10 2 x	N/A
8.5.4.3.5	Compliance	EX WILL MULTE WALL MY	N/A
8.5.5	High pressure lamps	No high pressurelamps used.	N/A
are an	Explosion test:	THE WITH MILL MILL	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	rtequirement – rest	Tresuit – Tremair	Verdict
8.5.5.3	Glass particles dimensions (mm):	The Till the Till	N/A
8.6	Stability of equipment	LIE NITE INLIED	N/A
8.6.1	General	MS1: Mass of the unit	N/A
Sec. Chr.	Instructional safeguard:	RUTER INLIER WALTE WALTE	N/A
8.6.2	Static stability	a st set set	N/A
8.6.2.2	Static stability test:	TER WILL MULT MULT	N/A
8.6.2.3	Downward force test	L at at let	N/A
8.6.3	Relocation stability	MULT MULT MILL MILL	N/A
ALTEX AL	Wheels diameter (mm):	LEK LEK LIEK ALT	<u> </u>
7	Tilt test	white the sile	N/A
8.6.4	Glass slide test	THE LIER WIFE WIFE	N/A
8.6.5	Horizontal force test:	- 112 111 11 11 11 11 11 11 11 11 11 11 1	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ucture	N/A
8.7.1	Mount means type:		N/A
8.7.2	Test methods	NITE INITE WALTE WA	N/A
et .	Test 1, additional downwards force (N):	The state of	N/A
les, ou	Test 2, number of attachment points and test force	The sure sure	N/A
TEX STATE	Test 3 Nominal diameter (mm) and applied torque	THE THE WITH MITTHE	N/A
<u> </u>	(Nm)	ne in in	
8.8	Handles strength	EX LIEX NIEX WITH AL	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	LIER WILLER WILLER MAN	N/A
<i>i</i> -	Number of handles:	In The second	_
in and	Force applied (N):	ALTER MITER WALTE WALTE	2112 - 1
8.9	Wheels or casters attachment requirements	at at all	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	e state of	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	CLIFE WIFE WALL WALL	N/A
8.10.3	Cart, stand or carrier loading test		N/A
, m	Loading force applied (N):	LIER MALTE WALL WALL	N/A
8.10.4	Cart, stand or carrier impact test	a state of	N/A
8.10.5	Mechanical stability	white mer mer w	N/A
A CONTRACTOR OF THE PARTY OF TH	Force applied (N):	a at at	E 48



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	EN IEC 62368	1-11 mile white wh	
Clause	Requirement – Test	Result – Remark	Verdict
de	The state of the state of	THE STEE WITE WALL	The All
8.10.6	Thermoplastic temperature stability	10 10	N/A
8.11	Mounting means for slide-rail mounted equipm	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	RLTER WILLE WILL VI	N/A
Et JE	Instructional Safeguard	1 x x x x	N/A
8.11.3	Mechanical strength test	The Will Mr. M.	N/A
8.11.3.1	Downward force test, force (N) applied:	L St Alt A	N/A
8.11.3.2	Lateral push force test	white mer me	N/A
8.11.3.3	Integrity of slide rail end stops	- let let stet	N/A
8.11.4	Compliance	Mer Aug Mus	N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm):	No such parts	_

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications 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)	INLT P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	SEP P
9.4	Safeguards against thermal energy sources	S MILL MILL MILL WITH W	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 WILTER
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 MALL	N/A
9.6.3	Test method and compliance	:	N/A

10	RADIATION		Р
10.2	Radiation energy source classification		V. Bur
10.2.1	General classification	See below	E PAR
me	Lasers	Et WILL WILL AND	_
MITER	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low	_



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

A.	LEK TEK TEK STIER WITH WAL MAN	power application.	
Write M	Image projectors:	LIER STEEL WILL MALE	_
t	X-Ray:	24 24	_
the Min	Personal music player	alter miter anticomplity	_
10.3	Safeguards against laser radiation	n L A RH	N/A
M	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	NP.
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	W.P.
LIEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	LIEK MITER MATER MATER	N/A
y JEH	Risk group marking and location:	1 1 st st	N/A
Me	Information for safe operation and installation	E WILL MILL AND AND	N/A
10.4.2	Requirements for enclosures	at at at 5	N/A
111 1	UV radiation exposure:	white many many many	N/A
10.4.3	Instructional safeguard	TEX TEX	N/A
10.5	Safeguards against X-radiation	A Mary Any	N/A
10.5.1	Requirements	No X-radiation	N/A
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Instructional safeguard for skilled persons	o mr. m. m. a	_
10.5.3	Maximum radiation (pA/kg)	A TEN STER SLIFE ON	_
10.6	Safeguards against acoustic energy sources	2/12 2/11 2/11	P
10.6.1	General	TER STEE OUTER WAITE	nr P
10.6.2	Classification	RS2	Р
	Acoustic output L _{Aeq,T} , dB(A):	See test report No. WTF25X02033951Y	N/A
MULLE	Unweighted RMS output voltage (mV):	See test report No. WTF25X02033951Y	N/A
WALTER	Digital output signal (dBFS)	See test report No. WTF25X02033951Y	N/A
10.6.3	Requirements for dose-based systems	The state of	N/A
10.6.3.1	General requirements	WILE WILL MULL MULL	N/A
10.6.3.2	Dose-based warning and automatic decrease	at the state of the	N/A
10.6.3.3	Exposure-based warning and requirements	rice mer, mer, mer,	N/A
L JUEN	30 s integrated exposure level (MEL30):	at the left of the o	N/A
20	Warning for MEL ≥ 100 dB(A):	Murit Mr. Mr. M.	N/A
10.6.4	Measurement methods	at at alt all	N/A



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	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
ale.	an an a	THE LIFE MET WALL	The The		
10.6.5	Protection of persons	70, 20,	N/A		
with w	Instructional safeguards:	See user manual	N/A		
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	The state out to	JEX WALTER WA		
10.6.6.1	Corded listening devices with analogue input	in in in	N/A		
WILL	Listening device input voltage (mV)	TEX SITER OUTER MILIT	N/A		
10.6.6.2	Corded listening devices with digital input	74 74	N/A		
When !	Max. acoustic output L _{Aeq,T} , dB(A):	LIER WILL MILE	N/A		
10.6.6.3	Cordless listening devices	24	P		
iner in	Max. acoustic output L _{Aeq,T} , dB(A):	See test report No. WTF25X02033951Y	AL P III		

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P
B.2	Normal operating conditions	Write Aut. Mir. Mur.	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	MILTP
iek walik	Audio Amplifiers and equipment with audio amplifiers:	(See appended table B.2.5)	ALTEK P
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	, P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	(See appended table B.3)	JU_D
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
r. 210	Instructional safeguard:	nite unit whit will	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	No such selector	N/A
B.3.6	Reverse battery polarity	No such output terminals	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	ρ̈́P
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective.	P
B.4	Simulated single fault conditions	WILL MULL AND A	Р
B.4.1	General	at the set set is	F P
B.4.2	Temperature controlling device	I MULL MULL MILL MILL	N/A
B.4.3	Blocked motor test	No motors	N/A



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- 20.	EN IEC 62368-	The state of the state of	25. 2.
Clause	Requirement – Test	Result – Remark	Verdict
B.4.4	Functional insulation	Can balaw	100
		See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	JU P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	WEITEP.
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)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	St. A A	N/A
C.2	UV light conditioning test	EK SLIFE MITER MALTER MA	N/A
C.2.1	Test apparatus:	The state of	N/A
C.2.2	Mounting of test samples	COLIFE WALL WALL WALL	N/A
C.2.3	Carbon-arc light-exposure test	a state of	N/A
C.2.4	Xenon-arc light-exposure test	NITE WALTE WALTER WALTER	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	in mur aur au a	N/A
D.2	Antenna interface test generator	t at at at a	N/A
D.3	Electronic pulse generator	Mury Mury Aug Ang	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	P
E.1	Electrical energy source classification for audio	o signals	Р
ITE NOLITE	Maximum non-clipped output power (W):	(See appended table B.2.5)	_
, ,t	Rated load impedance (Ω)	(See appended table 4.1.2)	_
Write	Open-circuit output voltage (V)		_
<i>*</i>	Instructional safeguard	Provided in the manual	
E.2	Audio amplifier normal operating conditions	TEX TEX STEEL OF	P



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Clause	Requirement – Test	Result – Remark	Verdict	
- an-		(C) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I	100	
	Audio signal source type:	(See appended table B.2.5)		
me n	Audio output power (W)	(See appended table B.2.5)		
Jet J	Audio output voltage (V):	(See appended table B.2.5)		
201	Rated load impedance (Ω):	(See appended table 4.1.2)		
iek waliek	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	LIER P	
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	P.	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	√/P	
F.1	General	LIER SLIER WIFE WILL	P	
A 1	Language	English		
F.2	Letter symbols and graphical symbols	STEE SLIEF MITTER WALLE	P.V	
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	TEX 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.	NI PE	
F.3	Equipment markings	2 2012 201	Р	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	NIE PAR	
F.3.2	Equipment identification markings	See below for details.	Р	
F.3.2.1	Manufacturer identification	See copy of marking plate	Р	
F.3.2.2	Model identification	See copy of marking plate	Р	
F.3.3	Equipment rating markings	Not direct connection to the mains, it need not bemarked with any electrical rating	N/A	
F.3.3.1	Equipment with direct connection to mains	THE WALL MALL MALL AND	N/A	
F.3.3.2	Equipment without direct connection to mains	at the state of	N/A	
F.3.3.3	Nature of the supply voltage:	MULT MULT WILL WILL	N/A	
F.3.3.4	Rated voltage:	at the the the	N/A	
F.3.3.5	Rated frequency	MULL MULL MULL MULL	N/A	
F.3.3.6	Rated current or rated power:	et tet tet tet	N/A	
F.3.3.7	Equipment with multiple supply connections	C. Mr. Mr. Mr.	N/A	
F.3.4	Voltage setting device	No voltage setting device.	N/A	



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
in.	M W THE S	ET SELTE SELT SUPER SUP	in an
F.3.5.1	Mains appliance outlet and socket-outlet markings	THE THE STEEL WITH	N/A
F.3.5.2	Switch position identification marking	m m m	N/A
F.3.5.3	Replacement fuse identification and rating markings	NITEK WALTER WALTER WALTER	N/A
Et NITER	Instructional safeguards for neutral fuse	at let let liet	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	and any any	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	at let let tet	N/A
F.3.6.1.1	Protective earthing conductor terminal	The me me	N/A
F.3.6.1.2	Protective bonding conductor terminals:	at the test that	N/A
F.3.6.2	Equipment class marking	The Mr. M. D.	N/A
F.3.6.3	Functional earthing terminal marking	TEH TEH STEEL BLI	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	- LIEF
F.3.8	External power supply output marking:	No such output	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	MITE PUT
	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.	PL WALTER
F.4	Instructions	The second second	P
ic in	a) Information prior to installation and initial use	See user manual	AL P
TEX WALTE	b) Equipment for use in locations where children not likely to be present	TEX STEX WITH WATER	N/A
t set	c) Instructions for installation and interconnection	n, 2, 7	N/A
WILL .	d) Equipment intended for use only in restricted access area	THE WALLE WATER WATER WA	N/A
THE I	e) Equipment intended to be fastened in place	at the the	N/A





2/1	EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
- The	f) Instructions for audio equipment terminals	the write wints, much	N/A		
- CLIEB		All All State	N/A		
riek vi	p) Protective earthing used as a safeguard h) Protective conductor current exceeding ES2 limits	THE TEXT OF THE	N/A		
·	i) Graphic symbols used on equipment	With the same of the	N/A		
AUCIE	j) Permanently connected equipment not provided with all-pole mains switch	JEK WHITEK WHITE WHIT	N/A		
MALTER	k) Replaceable components or modules providing safeguard function	ANTER WHITER WHITER	N/A		
TEK.	Equipment containing insulating liquid	A ST ST	N/A		
10 10	m) Installation instructions for outdoor equipment	White Marie Mar A	N/A		
F.5	Instructional safeguards	A ST SET S	N/A		
G	COMPONENTS		Р		
G.1	Switches	at at the th	N/A		
G.1.1	General	No switch used	N/A		
G.1.2	Ratings, endurance, spacing, maximum load	TEN THE STEET	N/A		
G.1.3	Test method and compliance	Wei Me Min	N/A		
G.2	Relays	At STEEL OF	N/A		
G.2.1	Requirements	No relay used.	N/A		
G.2.2	Overload test	The Life Williams	N/A		
G.2.3	Relay controlling connectors supplying power to other equipment	of the text states	N/A		
G.2.4	Test method and compliance	The An An	N/A		
G.3	Protective devices	THE LIEF STEE	N/A		
G.3.1	Thermal cut-offs	No such component	N/A		
TIL MUL	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	NIER WHITE WHITE WH	N/A		
EK WALTER	Thermal cut-outs tested as part of the equipment as indicated in c)	THE MILITER WHITE	N/A		
G.3.1.2	Test method and compliance	L A At Att	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	Mitel Mitel	N/A		
16th (18	b) Thermal links tested as part of the equipment	a state of	N/A		
G.3.2.2	Test method and compliance	LIE WALL WALL WALL	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	THE MITTER SOLITER	N/A		



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
m.		TER OUTE ONLY OUT	The The
G.3.5.1	Non-resettable devices suitably rated and marking provided	Tet Tet Tet	N/A
G.3.5.2	Single faults conditions:	ALL ME ALL	N/A
G.4	Connectors	TER LIER WIFE W	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration:	TER STER WITER WALL	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	t fet stet stet	N/A
G.5	Wound components	me me m	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	Mr. Mr. An.	N/A
G.5.2	Endurance test	TEX SITEX WITER WITE	N/A
G.5.2.1	General test requirements	24 24	N/A
G.5.2.2	Heat run test	EK NIEK WALTER WALTER	N/A
1th	Test time (days per cycle)	The Tark	
Mr. M	Test temperature (°C)	MITE WITE WALTE	mr
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown	The same	N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:	rie more more mus	N/A
LIFE	Position:	at the test of the	N/A
20, 1	Method of protection	MULL MULL MU	N/A
G.5.3.2	Insulation	FER TER JER	N/A
20, 4	Protection from displacement of windings:	Mur. Mur. Mr. A	57 <u> </u>
G.5.3.3	Transformer overload tests	TEK ITEK ALTEK IN	N/A
G.5.3.3.1	Test conditions	in my min	N/A
G.5.3.3.2	Winding temperatures	ist affet which write	N/A
G.5.3.3.3	Winding temperatures - alternative test method	20, 20, 2	N/A
G.5.3.4	Transformers using FIW	CITER WITER WITE	N/A
G.5.3.4.1	General	20, 20	N/A
Wr. AW.	FIW wire nominal diameter:	MITER MITE MALTE W	- L
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	THE MULL MULL MILL	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	at white white white	N/A
G.5.3.4.5	Thermal cycling test and compliance	Lit Lit The	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.5.3.4.6	Partial discharge test	And And any	N/A	
G.5.3.4.7	Routine test	ALTER MITE MALTE	N/A	
G.5.4	Motors	No motors used.	N/A	
G.5.4.1	General requirements	RETER WALLE WALL WA	N/A	
G.5.4.2	Motor overload test conditions	a state of	N/A	
G.5.4.3	Running overload test	TEL WILL MULT WILL	N/A	
G.5.4.4.2	Locked-rotor overload test	L St. St. St.	N/A	
1/1 1	Test duration (days):	White Man Man	2012 -	
G.5.4.5	Running overload test for DC motors	et et et	N/A	
G.5.4.5.2	Tested in the unit	Mer Mer Mer A	N/A	
G.5.4.5.3	Alternative method	let tet tet s	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	in me in in	N/A	
G.5.4.6.2	Tested in the unit	Et THE THE STIP	N/A	
.+	Maximum Temperature	the the the	N/A	
G.5.4.6.3	Alternative method	TEN LITER OLITER	N/A	
G.5.4.7	Motors with capacitors	"NI 211 211	N/A	
G.5.4.8	Three-phase motors	LET MITTER W	N/A	
G.5.4.9	Series motors	3 7	N/A	
MULL	Operating voltage	LIE WITE WITE WILL	<u> </u>	
G.6	Wire Insulation		N/A	
G.6.1	General	Only ES1 existed	N/A	
G.6.2	Enamelled winding wire insulation	2 2 2	N/A	
G.7	Mains supply cords	WILL MALL WALL	N/A	
G.7.1	General requirements	No such component	N/A	
74	Type	Will Mer Au	_	
G.7.2	Cross sectional area (mm² or AWG)	at all all all	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Aur au au	N/A	
G.7.3.2	Cord strain relief	WILL MULL MULL	N/A	
G.7.3.2.1	Requirements	at at at	N/A	
1, 20,	Strain relief test force (N)	With Mrs. Mur. A	N/A	
G.7.3.2.2	Strain relief mechanism failure	at all the	N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	TI MUT MUT MY	N/A	
G.7.3.2.4	Strain relief and cord anchorage material	et let let let	N/A	
G.7.4	Cord Entry	any any any	N/A	
G.7.5	Non-detachable cord bend protection	et let let	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.5.1	Requirements	the state of the	N/A	
G.7.5.2	Test method and compliance	TER STER WITER	N/A	
LIEK ML	Overall diameter or minor overall dimension, <i>D</i> (mm)	THE THE STEET IS	TEX -	
	Radius of curvature after test (mm):			
G.7.6	Supply wiring space	CEX LIEX SLIET WILL	N/A	
G.7.6.1	General requirements	1 1/2 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/	N/A	
G.7.6.2	Stranded wire	Et LIEF WITE WITE	N/A	
G.7.6.2.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.7.6.2.2	Test with 8 mm strand	CLIER WILL WALLE	N/A	
G.8	Varistors	The second second	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	at at at a	N/A	
G.8.2.1	General	The Will Mile Mile	N/A	
G.8.2.2	Varistor overload test	e et et set	N/A	
G.8.2.3	Temporary overvoltage test	MULL MULL MILE	N/A	
G.9	Integrated circuit (IC) current limiters	the little of	N/A	
G.9.1	Requirements	No such component	N/A	
TER MALTE	IC limiter output current (max. 5A):	The life still not		
L A	Manufacturers' defined drift:	L Mr. M. M.	_	
G.9.2	Test Program	Et LIER NITER WITE	N/A	
G.9.3	Compliance	711 120	N/A	
G.10	Resistors	LIFE OUTE WALLE V	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	WITE WALL WA	N/A	
G.10.3	Resistor test		N/A	
G.10.4	Voltage surge test	I'E MALL WALL WALL	N/A	
G.10.5	Impulse test	and the second	N/A	
G.10.6	Overload test	MULL MULL MULL	N/A	
G.11	Capacitors and RC units	at alt alt	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	at let let of	N/A	
G.11.3	Rules for selecting capacitors	in my me m	N/A	
G.12	Optocouplers	cet tet itet ite	N/A	
THE THE	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	



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	EN IEC 62368-		
Clause	Requirement – Test	Result – Remark	Verdict
m.	White the state of	EL MULTE MULTE MULT ME	21/2
	Type test voltage V _{ini,a} :		_
4100 411	Routine test voltage, V _{ini, b} :	write write white was	_
G.13	Printed boards	the state of the	P
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	MIN P
G.13.2	Uncoated printed boards	in my	N/A
G.13.3	Coated printed boards	t TEN TEN STEEL IN	N/A
G.13.4	Insulation between conductors on the same inner surface	of let jet je	N/A
G.13.5	Insulation between conductors on different surfaces	antit mit and and	N/A
21/2	Distance through insulation	LIFE WALTE WALT WALT	N/A
it the	Number of insulation layers (pcs)	a start set	
G.13.6	Tests on coated printed boards	e unit unit unit un	N/A
G.13.6.1	Sample preparation and preliminary inspection	at at the s	N/A
G.13.6.2	Test method and compliance	MULL MULL MULL MILL	N/A
G.14	Coating on components terminals	et Tet life	N/A
G.14.1	Requirements:	2 24 24	N/A
G.15	Pressurized liquid filled components	THE THE LITTLE	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	* TEX LITER NUTER AN	N/A
G.15.2.1	Hydrostatic pressure test	The The American	N/A
G.15.2.2	Creep resistance test	LIER NITER WITE WALL	N/A
G.15.2.3	Tubing and fittings compatibility test	My An A St	N/A
G.15.2.4	Vibration test	LIER OLIER MITE MILITE	N/A
G.15.2.5	Thermal cycling test	The state of the s	N/A
G.15.2.6	Force test	IEE WILL WHILE WALL W	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	INLIE MALIE WALL WALL WALL	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
n m	ICX with associated circuitry tested in equipment	WILL MULL MULL MULL	N/A
TEX STE	ICX tested separately	at let let let	N/A
G.16.2	Tests	rich Muri Muri Muri	N/A
MALTER	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	Et OLIEK MILEK MILLER MI	-
		21 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

Mains voltage that impulses to be superimposed on.....

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01	EN IEC 62368-	L. 70, 72, 7	1/21:-4
Clause	Requirement – Test	Result – Remark	Verdict
70,	Largest capacitance and smallest resistance for	The the man	
WITE OF	ICX tested by itself for 10000 cycles test:	TER TER STER MI	
G.16.3	Capacitor discharge test:	Mr. Mr. M. M.	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	the Mr. W. A.	N/A
H.2	Method A	TEX STEEL WITEEN MALTER	N/A
H.3	Method B	711 70	N/A
H.3.1	Ringing signal	No telephone ringing signal	N/A
	SEX STEX WITER WITER WALTE WAL WITE	generated within the equipment.	y
H.3.1.1	Frequency (Hz):	WHITE MALLE MALL WALL	_
H.3.1.2	Voltage (V):	at the fifth the	_
H.3.1.3	Cadence; time (s) and voltage (V):	The men with the	_
H.3.1.4	Single fault current (mA)::		ė _
H.3.2	Tripping device and monitoring voltage	Mer Mer My	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	White white white whi	N/A
H.3.2.2	Tripping device	IN THE LIFE	N/A
H.3.2.3	Monitoring voltage (V):	- 2 m m	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1 5	General	at the test of the	N/A
20,	Winding wire insulation:	Mer Mer Me M	_
WITER OF	Solid round winding wire, diameter (mm):	THE THE STEE ST	N/A
alex of	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	who we set the the	N/A
J.2/J.3	Tests and Manufacturing	ALTE WALL WALL WALL	-77,7
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	The Me Me a	N/A
MALTER	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode	White Muri My My	N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	the mer mer me.	N/A
K.5.1	Under single fault condition	et let let liet	N/A
K.6	Mechanically operated safety interlocks	Mer Me Me M	N/A
K.6.1	Endurance requirement	at at the s	N/A

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	EN IEC 62368-	2 40 m	
Clause	Requirement – Test	Result – Remark	Verdict
K.6.2	Test method and compliance	it with the me	N/A
K.7	Test method and compliance Interlock circuit isolation	- 10 10 10 10	4
		and any any	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	TEX TEX NITEX MITEX	N/A
iek alie	In circuit connected to mains, separation distance for contact gaps (mm)	at alt alt are	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	y my my my m	N/A
Mr.	Electric strength test before and after the test of K.7.2	MULTE MILL WILL WILL	N/A
K.7.2	Overload test, Current (A):	LIEF SLIEF MILE MILE	N/A
K.7.3	Endurance test	Mi Mi M	N/A
K.7.4	Electric strength test	LIET WILL WILL MILLE	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	er with white with wi	N/A
L.2 6	Permanently connected equipment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
L.3	Parts that remain energized	WILL WILL MUT, MIN,	N/A
L.4	Single-phase equipment	At THE THE	N/A
L.5	Three-phase equipment	The sure sure	N/A
L.6	Switches as disconnect devices	The The	N/A
L.7	Plugs as disconnect devices	re and any a	N/A
L.8	Multiple power sources	of the the little of	N/A
-27	Instructional safeguard:	They are the A	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells	TER LITER MITER MITER	P
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	TEL P
M.3	Protection circuits for batteries provided within the equipment	Must have my my	P
M.3.1	Requirements	white white mill and	Р
M.3.2	Test method	at at alt sat	P
	Overcharging of a rechargeable battery	(See appended table AnnexM)	P
t which	Excessive discharging	(See appended table AnnexM)	Р
	Unintentional charging of a non-rechargeable battery	No such battery used	N/A



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	EN IEC 62368-	2, 40, 72, 2	
Clause	Requirement – Test	Result – Remark	Verdict
JULIER ST	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	P MALTIN
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	Р
M.4.1	General	CLIE WALTE WALTER	√/P
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.	WILLER WAL
M.4.2.1	Requirements	TEN LITER SLITER SMIT	P
M.4.2.2	Compliance :	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	Only PS1 circuit , no fire enclosures or barriers required	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	TE MITE WILLY WATER	ALTE PAR
M.4.4.2	Preparation and procedure for the drop test	L at at let a	P.
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	W P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	Р
M.4.4.6	Compliance	THE MALTE WALL WALL AND	Р
M.5	Risk of burn due to short-circuit during carryin	g A A A	P
M.5.1	Requirement	No bare conductive terminal used	√III P
M.5.2	Test method and compliance	CALTER WALTER MALTER WALTER	N/A
M.6	Safeguards against short-circuits		P
M.6.1	External and internal faults		N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	TEK PU



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

M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration No such battery used	N/A
Life Mi	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
White	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
ne in	Hydrogen gas concentration (%)	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
in all	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
20,0	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	N/A
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):	E
M.8.2.3	Correction factors	4,0
M.8.2.4	Calculation of distance d (mm):	- 150 T
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
NLTER.	Instructional safeguard	N/A
N	ELECTROCHEMICAL POTENTIALS	N/A
WITE AN	Material(s) used:	WILL STEEL
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
TE WIT	Value of X (mm)	الترين الم
P /	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	
P.1	General Only PS1	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object	
P.2.1	General	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
P.2.2	Cofe would arreight automorphis of a favoring ablant	Er Will Mary Will a	NI/A
7.2.2	Safeguards against entry of a foreign object	No proving (N/A
200	Location and Dimensions (mm)	No opening.	20, —
P.2.3	Safeguards against the consequences of entry of a foreign object	TEX LIES MITES MALTE	N/A
P.2.3.1	Safeguard requirements	the state of the s	N/A
and a	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE WALTER WALTER WALTER	N/A
	Transportable equipment with metalized plastic parts:	ANTEK MULTER MULTER M	N/A
2.2.3.2	Consequence of entry test:	at at all s	N/A
P.3	Safeguards against spillage of internal liquids	West Mer Mer Me	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	The Mar Mar Mar	N/A
P.3.3	Spillage safeguards	CH TEN TEN LITER	N/A
P.3.4	Compliance	mr m m	N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	ALL MITE MIT	N/A
A A	Conditioning, T _C (°C)	3 13	
MULL	Duration (weeks)	TE WILL WILL MILE	They are
Q d	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	MITE WALL WALL OF	N/A
Q.1.1	Requirements	at the	N/A
me, m	a) Inherently limited output	mile while while whi	N/A
78th J	b) Impedance limited output	a at at all	N/A
21/2	c) Regulating network limited output	WILL MULL MULL MULL	N/A
EX LIEN	d) Overcurrent protective device limited output	at at at the	N/A
7/1	e) IC current limiter complying with G.9	in me me me	N/A
Q.1.2	Test method and compliance:	t get get get	N/A
The state of	Current rating of overcurrent protective device (A)	Must my my m	N/A
Q.2	Test for external circuits – paired conductor cable	MULL MULL MULL MULL	N/A
, me	Maximum output current (A):	LIEF MITE WALLE WALLE	N/A
t set	Current limiting method	the state of	(# -K
R Juni	LIMITED SHORT CIRCUIT TEST	IET JOLIE MOLIE WALLE	N/A
R.1	General	No such consideration.	N/A



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- also	EN IEC 62368-1		
Clause	Requirement – Test Result – Remark	Verdict	
R.2	Test setup	N/A	
N.Z	Overcurrent protective device for test:	IN/A	
D 2		NI/A	
R.3	Test method	N/A	
-	Cord/cable used for test		
R.4	Compliance	N/A	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A 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		
d	Samples, material:	t Lit	
11/5 (1)	Wall thickness (mm):	mr.	
TEK J	Conditioning (°C)	J. 1767	
y	Test flame according to IEC 60695-11-5 with conditions as set out	N/A	
Mer	- Material not consumed completely	N/A	
LET.	- Material extinguishes within 30s	N/A	
410, 1	- No burning of layer or wrapping tissue	N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A	
1. 20	Samples, material:	20 - 1	
SEX REST	Wall thickness (mm):	NITER-IN	
2,,	Conditioning (°C)		
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:		
THE WAY	Wall thickness (mm):	Mrtice_ol	
S.4	Flammability classification of materials	N/A	
S.5 V	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A	
111,	Samples, material	7,-	
N ^{LTER} AU	Wall thickness (mm):	SINCIE .	
	Conditioning (°C)		
T MILL	MECHANICAL STRENGTH TESTS	Pul	
Ţ.1	General The Tree Tree Tree Tree Tree Tree Tree	P	
T.2	Steady force test, 10 N:	N/A	
T.3	Steady force test, 30 N:	N/A	
T.4	Steady force test, 100 N:	N/A	



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
T.5	Steady force test, 250 N:	my my my m	N/A
T.6	Enclosure impact test	ALTER MITE WALLE WAL	N/A
att i	Fall test	and the set set	N/A
10	Swing test	ortice white white white	N/A
T.7	Drop test:	(See appended table T.7)	JE P
T.8	Stress relief test:	The Multi Multi Must a	N/A
T.9	Glass Impact Test:	t get get gret is	N/A
T.10	Glass fragmentation test	Anti Mir Anti An	N/A
الدينية الما	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	MILL WITH THE ME	N/A
Lite Whit	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Ü WALTE	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General	t set set stet si	N/A
The same	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen	t The	N/A
Λ 20	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment	et let let let s	N/A
V.1.1	General	Mur. Mur. Mr. M.	N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes	at at let let	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	write mure, mur mur	N/A
V.1.5	Slot openings tested with wedge probe	at at tet tet	N/A
V.1.6	Terminals tested with rigid test wire	in me me in	N/A
V.2	Accessible part criterion	et the the title of	N/A
X TELL SUR	ALTERNATIVE METHOD FOR DETERMINING CINSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
A B	Clearance:	My My My	N/A
Y June	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General Management of the second of the seco	Indoor equipment	N/A
Y.2	Resistance to UV radiation	LER MILLE MILL MULL AN	N/A
Y.3	Resistance to corrosion	at at at a	N/A
Y.3	Resistance to corrosion	THE WILL WILL MAN	N/A



Page 36 of 68

Clause	Requirement – Test	Result – Remark	Verdict
Olause	Trequirement Test	result remark	Verdict
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	TEK TEK STEK	N/A
Y.3.2	Test apparatus	mr mr m	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	TEX LIEX NUTER	N/A
Y.3.4	Test procedure:	he m an	N/A
Y.3.5	Compliance	TER STER WITER WIN	N/A
Y.4	Gaskets	44 44	N/A
Y.4.1	General	ALTER WITER WILLE	N/A
Y.4.2	Gasket tests	711 7 24	N/A
Y.4.3	Tensile strength and elongation tests	MITE MALIE MALIE	N/A
det d	Alternative test methods:	t it it	N/A
Y.4.4	Compression test	LIET WILL WALL W	N/A
Y.4.5	Oil resistance	a at at a	N/A
Y.4.6	Securing means	e will mult must	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	Wir Mur. Mur.	N/A
Y.5.2	Protection from moisture	it TEX	N/A
1. 2.	Relevant tests of IEC 60529 or Y.5.3:	2 20 2	N/A
Y.5.3	Water spray test	All All STATE	N/A
Y.5.4	Protection from plants and vermin	r. mr. m. m.	N/A
Y.5.5	Protection from excessive dust	it itel litely with	N/A
Y.5.5.1	General	24. 24. 24.	N/A
Y.5.5.2	IP5X equipment	LITER OUTER WITER	N/A
Y.5.5.3	IP6X equipment	24, 24, 26	N/A
Y.6	Mechanical strength of enclosures	LIFE MITER WALTER	N/A
Y.6.1	General		N/A
Y.6.2	Impact test:	TER STIES WITH WITH	N/A



Š	The Man and Man	EN IEC 62368-1	mi mi
	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

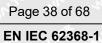
Attachment Originator.....: UL(Demko)

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

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	CENELEC COMMON MODIFICATIONS (EN)	Р
MUTER A	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	
EL WALTE	Add the following annexes: Annex ZA (normative)Normative references to international publications with their corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code designations for flexible cords	P. P.
1		
3.3.19		
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.	N/A
3.3.19.3 III	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa^2 s. $E = \int_0^T p(t)^2 dt$	N/A



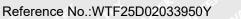




$ \begin{array}{c} \text{logarithmic measure of sound exposure relative to} \\ \text{a reference value, } E_0, \text{ typically the } 1 \text{ kHz} \\ \text{threshold of hearing in humans.} \\ \text{Note } 1 \text{ to entry: } SEL \text{ is measured as } A\text{-weighted levels in dB.} \\ \hline SEL = 10 \lg \left(\frac{E}{E_0}\right) \text{ dB} \\ \text{Note } 2 \text{ to entry: See B.4 of EN 50332-3:2017 for additional information.} \\ \hline 3.3.19.5 \\ \hline \text{digital signal level relative to full scale, dBFS} \\ \text{levels reported in dBFS are always r.m.s. Full scale level, } 0 \text{ dBFS, is the level of a dc-free } 997- Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry. It is invalid to use off-For non-ris, levels. Because the definition of full scale is based on a sine wave the level of signature of the scale o$	Clause	Requirement – Test	Result – Remark	Verdict
Safeguard requirements for protection against long-term exposure to Excessive sound pressurelevels from personal music players also covered. A personal music players are also covered. A personal music players are also covered. A personal music players are also covered. A personal music players or audiovisual content / material; and — uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and — has a player that can be body worn (of a size suitable to be carried in a clothing pooket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	3.3.19.4	logarithmic measure of sound exposure relative to a reference value, E_0 , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: SEL is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right) \text{dB}$	Whitek	N/A White Whit
2 Modification to Clause 10 Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following: 10.6.1.1 Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile	3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals	JALIER WHITER	N/A N/A
Replace 10.6 of IEC 62368-1 with the following: 10.6.1.1 Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: — is designed to allow the user to listen to audio or audiovisual content / material; and — uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and — has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile	2			Р
Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: — is designed to allow the user to listen to audio or audiovisual content / material; and — uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and — has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile	10.6		LIE OLIE WALLE	WALTER PATE
	10.6.1.15 WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER W	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressurelevels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: — is designed to allow the user to listen to audio or audiovisual content / material; and — uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and — has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	JUNITER WILLER WILLER JUNITER JUNITER WILLER JUNITER JUN	TEX WILLEY WILLE
Personal music players shall comply with the		phones with MP3 type features, PDAs or similar equipment.	MUT MUT ME	TEK STEK



EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
ale.	1. 1. 11. 10.00 10.00	The state white white	Mrs M.
	requirements of either 10.6.2 or 10.6.3.	1 t st	LET LET
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	JUNITER WALTER WALTER	mer mer a
	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.	Lifest whitest whitest wh	LIER WHIER WHI
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only.	JUNETER WHITER WHITER	MALIE WALTER
	The requirements do not apply to: – professional equipment;	MITER WAITER WAITER	WILLER MUTIES AN
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment.	TEX MUTEX MUTEX MU	TEK IN TEK WALT
	hearing aid equipment and other devices for assistive listening;	MULLE MILL MILL	20/2 2012 20/2 2012
	the following type of analogue personal music players:	WALTER WALTER WALTER	MUTTER MUTT. 2
	 long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; 	MILITER W	iter wi
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	THE WILLS WILLS	MATE MATER
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	untitle whitek	UNITER WALTER OF
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	THE MUTTER MUTTER AN	iter wite wi
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	TEK TEK STEK	MITEL MATER
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). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	init white white whi	TEK WATER WATER
WALLER W	Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is	Whitek whitek	Whitek Whitek W







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

	drawn to EN 50360 and EN 50566.	10. 1	Jt. Jt.
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2 10.6.2.1 Indicate and the second se	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> _{Aeq} , τ, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> _{Aeq} , τ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	Not such equipment	N/A N/A
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	White white whitek	WALTER WALTE
10.6.2.2 MALTER WALTER	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	INTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	N/A



N/A

20,	EN IEC 62368-	rie wir wir and	211, 411,
Clause	Requirement – Test	Result – Remark	Verdict
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	the state of the	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	JUNETE JUNETER	and and the second of the seco
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	WILL WIFE MILES	N/A
10.6.3	Classification of devices (new)	W. W.	N/A
10.6.3.1	General	LINE W	N/A
iek waite k	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.	THE WALL WALLES	EK WATER WATE
	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 LAeq, racoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme	JUNITER WHITER W	ITEL WALLER WALLER
t Jet	simulation noise" described in EN 50332-1.		+ 21 ⁹ + 21
	DC2 limite (now)		NI/A

RS2 limits (new)

not exceed the following:

RS2 is a class 2 acoustic energy source that does

- for equipment provided as a package (player

10.6.3.3



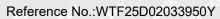
EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
WILLER WILL WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	Whitek wh	AND THE WALTER WAS AND THE WALTER WAL
10.6.4	Requirements for maximum sound exposure	itt mur mur mur	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	Whitek whitek whitek	N/A
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable. Protection of persons	AT THE	N/A
SEK WALTE	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	ties and the and and and	
	NOTE 1 Volume control is not considered a safeguard.	INTER MALTE WALL	Mur. Mur.
	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 whitek	UNLIEK WILLEK WEITEK WI
	The elements of the instructional safeguard shall be as follows:	MULTER MULTER MULTER	WHITE WALTER
	- element 1a: the symbol (1997), IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	ONLIER WHITER WHITER W	itek white w
	wording - element 4: "Do not listen at high volume levels for long periods." or equivalent wording	et whilet whilet	WALT & WALT
			100



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an an a		EN IEC 62368-1	mr. m.
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	Verdict
Whitek Wi	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.	Whitek whitek whitek whitek	antifek w
	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.	BY Whitek whitek whitek whitek	JALIEK JUNILEK
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening	TEX WITEX WITEX WITEX W	et and
	time, independent of how often and how long the personal music player has been switched off. A skilled person shall not be unintentionally exposed to RS3.	TEX TEX WITH WHITE WITH	WATER ON
10.6.5	Requirements for dose-based systems	With the state of	N/A
10.6.5.1	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.	Not such equipment	N/A
	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.	UNLIER WHITER WH	MALTER ON STEEL ST
nrifek un urifek un	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.	TER WALTER WALTER WALTER	on text out the second of the
10.6.5.2	Dose-based warning and requirements	MITER WALTER WALTER WAL	N/A
WALTEK W	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	SLIEF WRIEF WHILEY WHILEY	WALLEY W





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1	7	7	1
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10.	EN IEC 62368-1	is the me	70, 70,
Clause	Requirement – Test	Result – Remark	Verdict
MALITEK W	acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	Whitek whitek whitek	JUNITER WHITEK
0.6.5.3	Exposure-based requirements	at at alt of	N/A
WALLER ON	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.	Whitek Mritek Mritek	MITER WALTER
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	LIEK WALTER WALTER WALTE	TEX UNLIER OUT
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	THE WALLEY WALLEY WALLEY	My My Let White And Let White
UNITEK WI	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	THE THE LIPE	MITER WALTER
10.6.6	Requirements for listening devices (headphone	es, earphones, etc.)	N/A
10.6.6.1 C	Corded listening devices with analogue input With 94 dB LAeqacoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB	THE MITTER WATER WATER	N/A Luni L
10.6.6.2	and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input		N/A
10.0.0.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	ALTER WITER WILLER	while while



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	EN IEC 62368-1	iter intite white whi	
Clause	Requirement – Test	Result – Remark	Verdict
10.6.6.3	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, τacoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. Cordless listening devices 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 <i>L</i> Aeq, τacoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	Whitek wh	AMELIER AND TEER AND
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	White white white	N/A
3	Modification to the whole document		N/A



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The Maria	My My All	EN IEC 62368-1	TEX INTEX WHITE WA	ing Mary Ang
Clause	Requirement – Test	ALTE ME ME ME	Result – Remark	Verdict

	lis		country note	s in the refe	erence docume	nt according	to the following	N/A
	, est-	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	Julia .
	اري.	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 EX WI
	ی	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	<u> </u>
	211 s.	Table 13						11/2
	TZ E	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MALTER
	EJK Z	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	VIIER 7
	· ni	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	SEX NIL
	N. I.	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MALIE
	, d	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	TEX
	£ \	Y.4.5	Note	2				sil .
Melite	12	7			AF AV		اله. ١٦٠ عا.	11. W
	M	odification	to Clause 1					N/A
nii .	NO ele		ving note: e of certain substa ent is restricted w			MITER WILL	et white whit	N/A
					Control of the Contro			



N/A

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
ale .		in the way of the same	als.	
4.21 WALTER WALTER	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c.mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so 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.	and the state of	N/A N/A N/A N/A N/A N/A N/A	
6	Modification to 5.4.2.3.2.4		N/A	
5.4.2.3.2.4		No connection to external	N/A	
-UER N	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	circuit.	LITER	
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	

Modification to 10.5.1

8



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20.	EN IEC 62368-1	lit inti with wine	24, 24,
Clause	Requirement – Test	Result – Remark	Verdict
- chr.	THE THE STATE OF T	the with white out	The All
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:	WALTER WALTE WALTE	mir mr
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	LEK WHITEK WHITEK WHITEK	ex unife unifex
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	MULEY MALTER WALTER	Inlies White W
	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.	LIEX WHITEK WHITEK WE	TER UNITER UNITE
	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.	whilet whilet whilet	Whitek Whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.		EK WATER WATE
LITEK	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	A St III	t tiet atter
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.	UNITER WHITER WHITER	N/A
10	Modification to Bibliography		N/A



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The Maria	My My All	EN IEC 62368-1	TEX INTEX WHITE WA	ing Mary Ang
Clause	Requirement – Test	ALTE ME ME ME	Result – Remark	Verdict

-60,	A 1.1 (1 . C 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The the the the	NI/A
	Add the following no	tes for the standards indicated	d:	N/A
	IEC 60130-9	NOTE Harmonized as EN 60	130-9.	21/2 2
	IEC 60269-2	NOTE Harmonized as HD 603	269-2.	.4.
	IEC 60309-1	NOTE Harmonized as EN 603	309-1.	LIE N
	IEC 60364	NOTE some parts harmonize	d in HD 384/HD 60364 series.	20,
	IEC 60601-2-4	NOTE Harmonized as EN 601	601-2-4.	+ 4
	IEC 60664-5	NOTE Harmonized as EN 600	864-5.	The state of
	IEC 61032:1997	NOTE Harmonized as EN 610	032:1998 (not modified).	20
	IEC 61508-1	NOTE Harmonized as EN 61:		- 154
	IEC 61558-2-1	NOTE Harmonized as EN 61:	558-2-1.	"Ver
	IEC 61558-2-4	NOTE Harmonized as EN 61:	558-2-4.	1
	IEC 61558-2-6	NOTE Harmonized as EN 61:	558-2-6.	15
	IEC 61643-1	NOTE Harmonized as EN 610	843-1.	11. W
	IEC 61643-21	NOTE Harmonized as EN 610		
	IEC 61643-311	NOTE Harmonized as EN 610	643-311.	16th 10
	IEC 61643-321	NOTE Harmonized as EN 610	843-321.	A COLO
	IEC 61643-331	NOTE Harmonized as EN 610	643-331.	1 1
				The Ties
1	ADDITION OF ANN	EXES		N/A
ZB	ANNEX ZB, SPECIA	AL NATIONAL CONDITIONS	(EN)	N/A
4.1.15	Denmark, Finland.	Norway and Sweden	Not directly connected to the	N/A
Let .		bclause the following is	mains	(1 E E
	added:	belause the following is	THE WALL OF	10
		quipment type A intended for	r	A a
		equipment or anetwork shall, it		Les Cris
		ection to reliable earthing or if		-21,
		re connected between the	200	t set
	network terminals ar	nd accessible parts, have a	at the title title att	TULL.
		the equipment shall be	Will the Mr.	100
	connected to an eart	thed mains socket-outlet.	1	LEX.
	V " 20		THE LIE NITE MAIN	Wer. 2
		the applicable countries shall	The Mr. Mr.	
	be as follows:		I at the little	1 E
	In Denmark:		LIEN NITE WILL WILL W	- 10 L
		skaltilsluttesenstikkontakt med	11. 14. 14. 2	J. 1
		delsetilstikproppensjord."	at at at all a	Er Still
	In Finland : "Laite on		I will mer mer me	12,
		timillavarustettuunpistorasiaar		- ct
	"		A LET THE TEN	In Little
	In Norway:		They were my	20,
	"Apparatetmåtilkople	esjordetstikkontakt"	t at	LEK-
	In Sweden : "Appara		THE STATE STATE STATE	West of
	jordatuttag"	SEX SLIES WITH SINITE	The Mr. M. M.	



	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
71/2 1	W SV THE THE	The could be the sould be the s	10
4.7.3	United Kingdom	20, 20	N/A
	To the end of the subclause the following is added:	unlies while unlie whi	MULL
et writes	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	titek white white white	White A
5.2.2.2	Denmark /- // // // // // // // // // // // //	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	ITE INLIE
	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.	White whitek whitek white	H WALTER
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	TEK WHITE WHITE WHITE	an is a
	For separation of the telecommunication network from earth the following is applicable:	MULTER WALLER WALLE A	ur aur
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Whitek whitek white whi	TEX WALL
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	The function of the state of th	Set .
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	MILITA WALL WALLES	nn unit
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the	ites still with any	EX MILIER
	insulation consisting of an insulating compound completely filling the casing, so that clearances	TEX TEX STEX STEX	WILLER
	and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and	et tet tiet stret	NITEK WIL
	in addition	20 20 20 20 20 2	
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	Whitek whitek whitek wh	TE WALTE
	positioned doing 1,0 kV),	WILL MULL MULL AMER	30,000
	and	t at at	All the
	is subject to routine testing for electric strength	TER INTER MILIE MALIE	an, an
	during manufacturing, using a test voltage of	1 t at at	-51 ³ * -51

1,5 kV.

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

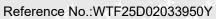


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-20.	EN IEC 62368-1	is the same	15. 17.
Clause	Requirement – Test	Result – Remark	Verdict
NULL	A capacitor classified Y3 according to EN 60384-	With mir unit	TEX STEX
	14:2005, may bridge this insulation under the following conditions:	more many many	TEX TEX
	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;	EX WHITE MUTER WHITE	while whi
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	MULTER WALTE MALTER W	Whitek Muliek
TEX WALL	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	TER WILER WITER MUT	EK W. TEK W
5.5.2.1	Norway	s at at all	N/A
	After the 3rd paragraph the following is added:	WALTE WALL WALL	me me
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	WHITEK WAITER WHITEK	NUTER MULTER
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	To the the	it step of
MUTER	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.	The marties whites whites	while while
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with 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:	until white whitek white	TO THE WALL
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	THE STEEL STEEL	UNLIEK WALTER
5.6.4.2.1	Ireland and United Kingdom	m m	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 WHITER WHITER ON	ite with w







24	The state of	EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.6.4.2.1	France	10, 1,	N/A
ALTEK MUT	After the indent for pluggable equipment type A , the following is added: — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	Whitek whitek whitek whi	EX WILEY
5.6.5.1	To the second paragraph the following is added:	at let let liet	N/A
MALTER	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.	Multiply Multiply Multiply	WHITE WHITE
5.6.8	Norway	is at at .	N/A
par on Lifet onlife Et onlifet	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.	SOUTH WOLL WOLL WAS	white and
5.7.6	Denmark	20, 20, 2	N/A
	To the end of the subclause the following is added:	Whitek whitek whitek w	NITE WALL
niti whi	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	THE MALE WAL	F BUT A
5.7.6.2	Denmark	THE WITH MILE WALL	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	Whitek Whitek	NUTER WATER
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.	TIEK WALTER WALTER WALTER	et weret w
	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.	NITER WHITE WHITE WHITE	Au les Au
	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:	Whitek whitek whitek	WALTER WALTE



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Alex.	"Apparatus connected to the protective earthing of	THE THE THE THE	"Nu" "N"
	the building installation through the mains	1 1 1	TEN TEN
	connection or through other apparatus with a	STEEL STEEL STATE OF	We are
	connection to protective earthing –	41, 41, 25	
	and to a television distribution system using	A SH SER S	SER LIFE OF
	coaxial cable, may in some circumstances create	Lite with our way	2/2 2/1
	a fire hazard. Connection to a television		L + .
	distribution system therefore has to be provided	at the the	
	through a device providing electrical isolation	Mrs. Mur. Mrs.	20, 20
	below a certain frequency range (galvanic isolator,	1	11- 11
	see EN 60728-11)"	THE LITTLE STATE	will while
	NOTE In Norway, due to regulation for CATV-installations, and	The Mr. M.	2,
	in Sweden, a galvanic isolator shall provide electrical insulation	A A OF	LET SET
	below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	LITER SLIPE WITH MI	r. 10, 1
	Suerigur of 1,5 kV 1.111.5., 50 Tiz of 00 Tiz, 101 T Tillin.	14. 24. 24. 25.	
	Translation to Norwegian (the Swedish text will	at at at a	Carried Contraction
	also be accepted in Norway):	The wall wall was	24, 24
	TEX TEX LIFE MITT WILL WIND	300	. * *
	"Apparatersom er koplettilbeskyttelsesjord via	of the tier tier	WILL WILL
	nettpluggog/eller via annetjordtilkoplet	are were my	20, 20
	utstyr – og er tilkoplet et koaksialbasertkabel-TV	1 1	LEN LEN
	nett, kanforårsakebrannfare.	TER LIFE OLITE	WILL WALL
	For å unngådetteskal det	11/2 11/2 12 1	
	vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator		THE SHAPE
	mellomapparatetogkabel-TV nettet."	THE WALL WA	" 2 L 2
	monomapparatologicabel-1 v nettot.		d A
	Translation to Swedish:		The water water
	"Apparatersomärkopplad till skyddsjord via	in with while with	2/11
	jordatvägguttagoch/eller via	1	1 10
	annanutrustningochsamtidigtärkopplad till kabel-	- The The Aller	WILL WALL
	TV nätkanivissa fall medfőra risk főr brand.	The Mr. M.	20.
	Főrattundvikadettaskall vid anslutningavapparaten	1 1 1	LET LET
	till kabel-TV nätgalvanisk isolator	SLIFE BLIFF SIDE SW	Vr. Oly
5.5.4.2.3	finnasmellanapparatenochkabel-TV nätet." United Kingdom	No external circuits.	N/A
.3.11210	Add the following after the 2 nd dash bullet in	TO OMOTHAL OFFICIALS.	
	3 rd paragraph:	in my m	
	o paragrapii.	e of the	- 18th W
	An emergency stop system complying with the	Er alle will white	21/2
	requirements of IEC 60204-1 and ISO 13850 is	20, 20,	4 4
	required where there is a risk of personal injury.	at at all	JE JIV



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20,	EN IEC 62368-1	til with white and a	11. 12.
Clause	Requirement – Test	Result – Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Not directly connected to the mains	N/A N/A N/A N/A N/A N/A N/A N/A N/A
G.4.2 WING	Denmark To the end of the subclause the following is added: 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. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. 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.	Not directly connected to the mains	M N/A
	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.	tiek whitek whitek whitek,	ovistiesk ovi
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in	white white white whi	EX WHITEK
	compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	nite unite unit whi	JEN V

Justification:

Heavy Current Regulations, Section 6c



Victor Musical	Mrs. Mrs. All Mrs.	EN IEC 62368-1	TEX MITEX WHITE W	71.	711
Clause	Requirement – Test	Mr. M. M.	Result – Remark	et d	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 WALTER	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
	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 Varitet Stet
G.7.2	Ireland and United Kingdom	in the man in	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



N/A

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	EN IEC 62368-1	tier intie while while w	
Clause	Requirement – Test	Result – Remark	Verdict
10.5.2	Germany	No CRT within the equipment.	N/A
	The following requirement applies:	TIFE MITER MATTER WALTER	MULLE V
	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.	LIFE WHITEK WHITEK WHITEK	NATER WAS
	Justification: German ministerial decree against ionizing	TEX NUTER WITER WALT	E- WALTEK

AND THE THE ENGINEER OF THE STATE OF THE STA

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)

radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive

Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig,
Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de

96/29/EURATOM.

NOTE Contact address:

ZD



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

Type of flexible cord	Code de	signations
	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	5	
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-F
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F



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J.	in.	He Me Me		
	Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classification of electrical energy sources						Р
Supply	Location (e.g.	Test conditions		Parame	ters	'	ES Class
Voltage	designation)			I (mA)	Type ¹⁾	Additional Info ²⁾	Class
5.0VDC The EUT is designed to be supplied by US type-C port		Normal	<60Vdc	A - A	SS	DC	ES1
		Abnormal	W. Tin	The Party of	10, 1,	70	
		Single fault – SC/OC	LIFE OLI	in tex	itek Wit	EK WITER	White.
4.2VDC	The EUT is	Normal	<60Vdc	T.	SS	DC	ES1
	designed to be supplied by Internal Li-ion battery	Abnormal	TER TITE	Write Write	477.0	415- 41	
		Single fault – SC/OC	. CIER	LIEK WLIEK	MALTEX.	UNLIENT WINLE	

Supplementary information:

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

3)

Test Conditions:

Normal –Full load and no load. Abnormal - Overload output short circuit; OC= open circuit

SC=

5.4.1.8 TABLE: Wor	king voltage measu	rement		N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
Mus Mus M	7 7	ik Jelk N	Ell 1827 E. W	TIL MUT. MUT. MUT.
- The The Willer	INLIE WILL WAS	111, - 211	-	et et alt out
Supplementary informatio	on:			

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method		: ISO 306 / B50	ine in	_	
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm) T so		oftening (°C)	
-2n 2n 2n 2n	at the site of	White - White his	nu -	20, 1	
Supplementary information:		,			
Supplementary information:	et tet stie stie	anti met we	7h 2	,	

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



Reference	No.	:W	ΓF25D	020	3395	60Y

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EN IEC 62368-1									
Clause	Requirement – Test	Resul	t – Remark	Ve	rdict				
"IL"	The The second	All Charles	in the same	e me	100				
1	TEX TEX TEX WITH MITH AN	3 2/15 - 2/11		* J					
Suppleme	ntary information:								
at .	tek lifek milet milet milit milit milit	20, 20,	- A	at A	<i>y</i> 3				
207 AS	"(1) "(1) 2) .		AV		4116				

5.4.2, 5.4.3 TABLE: Minimum	Clearan	ces/Cr	eepage (distance	711	'a		N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
- neith ancie mair war	1/1	1/11	- ,	-2+	181 <u>4-</u>	5Et 5	EK TITE	MITTE
Supplementary information:	'	•						
1) Only for frequency above 30 Complete Electric Strength volta		. (V) wh	en 5.4.2	.4 applied)	IEK WALI	ek walie	WILLE V	2)

5.4.4.2	TABLE: Minimum	N/A			
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
	TER TER ST	MITE WILL WAS	24, -24		et - et
Supplemen	tary information:				
*See also s	ub-clause 5.4.4.9	To Tay I		J 1	EK . (EK . (

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)
- Write Muri Muri	24 T 245	, ,	,	CEN STE	NITER OF	500	N. L.
Supplementary information:							

5.4.9 TABLE: Electric strength tests			N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	211 211 211	, t 2+	Let Let
-me me me m	H - TEH STEE STEE	- WILL WILL A	Vr. 170 1
Basic/supplementary:	211. 24. 24.	A St.	CENT STEP
The same of the sa	TEK NITER WITE	While and and	211,-
Reinforced:	14, 14, 1	at at de	t ster ste
- m w t it ifet	Ver aller mile	The Maria Maria	2/1, - 21,
Routine Tests:		et set set	LITER SLIFE
- The second second	ie - nite unite uni	- mr m	20 70
Supplementary information:			

Reference	No.	:W	ΓF25D	020	3395	60Y

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

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	
alle -	20, .		Normal	TER SHELLE	Vill Avr.	ing rue	
WALTER -	Write A	TER WALLE WALL	Single fault: SC/ OC	y crex	JEK TEK	LIEK WALTER	

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 of protective conductors and terminations N/A								
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)				
when the me me	. 7. 4	H JEK JEK	RLIFE WILLE W	17, ¹⁸ 77, 1				
Supplementary information:								
6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	14	All All	Colife and	intr in				

5.7.4	TA	BLE: Unearthed accessi	ble parts		The Street		N/A	
Location		Operating and fault	Supply	I	Parameters		ES class	
		conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
- TEK TIEK		Normal	m m			- Test	15th .	
		Abnormal	JEH - LIFET	mit - mit	me - me	1/1/2	z ₁₁ ₂₂	
		Single fault: SC/OC	L. 74	t	A A	Cal-	17 "17"	
Supplemen	ntary	information:						
SC= short	circu	uit; OC= open circuit	20, 20		st st	18th 15	Et JE	

5.7.5 TABLE: Earthed accessible conductive part					
Supply voltage (V)	- MILL WILL WILL	Mr. Mr.	24		
Phase(s)	[] Single Phase; [] Three F	Phase: [] Delta	[] Wye		
Power Distribution System	[] TN []TT [] IT	in my n	1. 14. 2		
Location	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt	
the rest rest refer while w	1 24 - 14 - 14	-		- 18th	
Supplementary Information:					
at the the tier of	e mr. m. m.	20 0	+ 4	, Eth	



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ALC:	711 J	EN IEC 62368-1	They the
Clause	Requirement – Test	Result – Remark	Verdict

5.8	TABLE	: Backfeed s	safeguard in battery	backed up	supplies		N/A	
Location		Supply voltage (V)			Open-circuit voltage (V)	Touch current (A)	ES Class	
tile mill	Whi	Mr. M	Z ₁ Z ₂	le t s	et Jet .	LIER - NITE	Mr William	
Supplemen	tary infor	mation:						

6.2.2	TABLE: Power source	e circuit classif	ications			P
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
For charging	base:	LITER WALL	mer me	24.	in a	A.
Battery	Output pin + to -	2.67	3.0	8.0	3S	PS1
Battery boa	rd Signal fault (U1 Pin 1-3 SC)	matte 0*n-tre	0*	0*	3S	PS1
For earbuds:		et et	LIEF WITE	WILL WILL	mr m	20
Battery	Output pin + to -	2.66	0.30	0.8	3S	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: Determ	ination of Arcing PIS		THE THE	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
-21/25 7	in m. m.	- A	TER LIFER OUT	MITE - WALL	mrm.
Supplement	tary information:				
We was	20, 20,	.4 .4	the Letter Later	الدرياني المانية	in the con

6.2.3.2	6.2.3.2 TABLE: Determination of resistive PIS N/A									
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No						
- 44	70. 2	it let the nite int	Whi Ath My	7/1, -2,						

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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Clause	Requirement – Test	Result – Remark	Verdict				

8.5.5	TABLE: High p	ressure lamp			N/A
Lamp manu	ıfacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- 2,	A A	18th 18th 18th	-neite white we	- 10 - 10	20, - 0,
Supplemen	tary information:				

9.6	TABL	E: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply volta	ige (V).				, ,	L St	At .	(E) (S	
Max. transm	nit powe	er of transn	nitter (W)		TENNITE	WILL.	145 140	111	_
					eiver and contact		iver and at of 2 mm		ceiver and at ce of 5 mm
Foreign ob	jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
	TEXT.	JE - NJ	er untre	WILL.	12 24	·			Et JET
Supplement	ary info	rmation:							

5.4.1.4, 9.3, B.1.5, B.2.6	ements	WALTEK WAL	EK P ITE		
Supply voltage (V):	Condition 1: (5.0VDC):	LIEK - NITER	· Writer	LIEK - LIEK	_
Ambient temperature during test T_{amb} (°C):	See below	- 70		* -#	_
Maximum measured temperature <i>T</i> of part/at:		Allowed T _{max} (°C)			
DC input terminal (Charging base)	32.5	WATE AND	" and	m m	Ref.
L1 body (Charging base)	38.1	. J. J.	yt g eit	LIEN- SLIFE	105
PCB near U1 (Charging base)	40.6	nri - wr	115. 1	20	105
Battery body (Charging base)	31.6	1 - 1t	Car.	TEN TILE	45
Plastic enclosure inside (Charging base)	28.4	L. STA	245 - 24	~	Ref.
PCB near U1 (Earbuds)	28.5	*e*	178th 1178	COLLEGE OF	105
Battery body (Earbuds)	28.5	21/2 21		7	45
Plastic enclosure inside near battery (Earbuds)	27.2	mitely and	SER WILLER	MULTER WAL	Ref.
Plastic enclosure outside near battery (Charging base)	26.6	. d = _d	- 50	CIEN - NITE	77
Plastic enclosure outside near battery (Earbuds)	26.2	Vr. WVr.	111 11	x _c+	48
Bamboo enclosure outside(Charging base)	26.0	TEN TIER	MITE ONL	WELL.	107

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Clause	Requirement -	- Test	in all	10 110	Result -	– Remark	et d	Verdict	
whi.	20 20 C	3)' \		e det	JE 15	1027	Very Miles	2/1/2	
Ambient			and the	25.0	70	-	4 - A	14	
Supply volt	tage (V)		:	Condition 2 (4.2VDC):	TEK WILTER	MULTE MULT	W.T.	_	
Ambient te	mperature durin	g test $T_{ m amb}$ ((°C):	See below	- 70	JEK - LIE	INCLE IN	6 —	
Maximum ı part/at:	measured tempe	erature <i>T</i> of		T (°C)					
PCB near l	J1 (Earbuds)		in,	28.5	·	- 	A - A	105	
Battery boo	dy (Earbuds)	J. A	L л	31.7	LIER - LIE	white wh	711	60	
(Earbuds)	losure inside ne	- 4n .	austr	29.1	* - A	- TEK 17	t which	Ref.	
Plastic end (Earbuds)	Plastic enclosure outside near battery (Earbuds)				W.r.	1 - M	70 .	48	
Ambient			*	25.0	COLUMN CO	TEN THE	when - w	- 21V.	
Temperatu winding:	re T of	t ₁ (°C)	R ₁ (Ω)) t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class	
	A 15	76 1- - 1	er 0	(P) (1/2)	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	20,- 20			

Supplementary information:

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

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

Condition 1: Empty battery of earbuds together with empty battery of charging base were charged by USB type-C.

Condition 2: Normal operation, fully charged battery of earbuds operated under max. volume.

B.2.5	TABL	E: Input to	est 🐠	20,	2,			THE THE STEE ON P AND
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5V	VIII.	0.211	unitek wi	1.05	n ^{lif} t.w	i,τ <u>ες</u> .ν	711 <u>11</u> 12	Empty battery of earbuds together withempty battery of charging base werecharged by USB type-C.
- TEX	TEN		ITEK MILI	ex and	TEN WAL	whi	, w	Battery charging current of chargingbase: 0.211A.
21/2° 21/			ik ilek	MALT	X WITEX	WALTE	WALTE	Battery charging current of earbuds:0.030A.
4.2 (fully charged	-j1	0.212	NITER.	0.89	WUTER A	nliet.	MALTER	Empty battery of earbuds were chargedby fully charged battery of chargingbase.
battery of	211.		164 20	LIEN	LITEK MY	7. E.K. 201	IEK W	Battery charging current ofearbuds:0.030A.
charging base)	ALTE	White h	VF	¢ (EK JE	L MIT	EX MAL	Battery discharging current of chargingbase: 0.212A.

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



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					EN IEC	62368-	-1		
Clause	se Requirement – Test				Resu	ılt – Remark	Verdict		
4.2 fully charged pattery of earbuds)	71/2 1/2-	0.016	ek - unit	0.067	TEX TEX	MATER MATER	NATES	Normal operation, batteryof earbuds of max.volume. Battery discharging earbuds:0.016A.	operated under

- 1) Supplied by DC source. ²⁾ Measured battery voltage and current for charging base and/or earbuds. The maximum measured current under rated voltage did not exceed 110% of the rated current.
- 2) For chargingbase: Max. charge current by manufacturer: 0.250A, Max. discharge current by manufacturer: 0.250A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.030A.

B.3, B.4 T	ABLE: Abnorr	nal operating	g and fau	It condit	ion tes	sts	at at all	JEP J	
Ambient temp	perature T _{amb} (°	C)			اکزیہی۔۔۔	See b	elow	_	
Power source	for EUT: Man	ufacturer, mo	del/type, c	outputrati	ng:	2	t let let i	_	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	า	
Empty battery	of earbuds to	gether withem	npty batter	y of char	ging ba	ase we	recharged by USB type	e-C.	
C1 (charging base)	Short circuit	5VDC	10mins	EX LIT	antife a	onti	Unit shut down immed damage, no hazard. Recoverable. Battery current of chargingbas Battery charging curre earbuds:0.00A.	charging se: 0.00A.	
U1 pin 2-5 (charging base)	Short circuit	5VDC	10mins	IRLTELL ON	LIEK.	MALTER LITER	Battery charging current of chargingbase: 0.211A. Battery charging current of earbuds:0.030A.		
<i>3</i>	tion, fully charg	(4)		perated	under r	max.vc		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Speaker (Earbuds)	Short circuit	4.2VDC	10mins	WALTER	white witer	uni.	Speaker stop working damage, no hazard. Battery discharging cuearbuds:0.016A.		
Speaker	max. available output power	4.2VDC	10mins	ILITER DUI	TEX TO	UNLIEK UNLIEK UN	Normal operation, fully batteryof earbuds ope max.volume. temperature rise see t 5.4.1.4, 9.3, B.1.5, B.2 Battery discharging cu earbuds:0.016A.	rated unde able 2.6.	
C9	Short circuit	4.2VDC	10mins	VIV.	WITEK	White!	Unit shut down immed damage, no hazard. Recoverable. Battery current of earbuds: 0.0	discharging	
		C 24 \ 34							





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Clause	Requirement – Test	Result – Remark	Verdict

WALTER WALTE	yntifik vint	TEX WALTER	MALTE	ing a	4 4	damage, no hazard. Recoverable. Battery discharging current of earbuds: 0.00A.
200			- C-3			

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) SC: Short-circuited; OL: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) For chargingbase: Max. charge current by manufacturer: 0.250A, Max. discharge current by manufacturer: 0.250A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.030A.

M.3	TABLE: Pr	otection circu	iits f	or batteri	es provid	ed w	/ithin	the equ	ipment	Р	
Is it possible	to install the	battery in a re	vers	e polarity	position?.	:			- 184 3	e* —	
					C	Charg	jing				
Equipment S	Specification		Vo	Itage (V)					Current (A)		
		5VDC						10	r Tale	14, 14,	
					Battery	y spe	pecification				
		Non-recharge	eable	batteries			Rec	hargeab	le batteries		
Discharg				ntentional narging	(Char	ging		Discharging	Reverse	
Manufact	urer/type	current (A)	current (A) cu		Voltage	(V)	Current (A)		current (A)	charging current (A)	
402030	11/2 1			JE 10	4.2		0.250		0.250	11/1/2	
GX 450909	SX 450909		-au	4.2	0		0.30	0.30	LOT C		
Note: The tes	sts of M.3.2 a	are applicable o	only v	vhen abov	e appropr	iate d	data i	s not ava	ailable.		
Specified ba	ttery tempera	ature (°C)			7) 7	:	7	ر ب	45°C		
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltage (V)	Obs	ervation	
For charging	base (40203	30):	'	at a	et de	٠ _	JET	CUE	WALTE WAL	nur.	
B- to P-	SC	Chargemod	le S	7hour	28.5	0.2	211	4.21	NL, NS, NI	E, NF	
B- to P-	SC	Discharge mo	ode	7hour	27.3	0.	122	4.20	NL, NS, NI	E, NF	
For earbuds	(GX 450909): Thirty	N. F.	m	-211-	a.	- "	٠.	A 184	All S	
U1 (pin4-6)	SC	Chargemod	le	7hour	31.6	0.0	030	3.40	NL, NS, NI	E, NF	
U1 (pin4-6)	SC	Discharge mo	ode	7hour	31.7	0.0	016	3.20	NL, NS, NI	E, NF	
Supplementa	ary information	n:									
J.L.	200	47 37	- 74	10.01	O.Y.					4/ 5/5	

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.



M.4.2



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For chargingbase: Max. charge current by manufacturer: 0.250A, Max. discharge current by manufacturer: 0.250A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.030A.

TABLE: Charging safeguards for equipment containing a secondary lithium

M	1000	00		4.0	14 10	
Maximum specified	charging voitag	ge (v)		4.2	with the sale	
Maximum specified	charging curre	nt (A)	1000	For charging b For earbuds(G	_	
Highest specified cl	harging tempera	ature (°C)		45	12 24 24 Z	
Lowest specified ch	narging tempera	ture (°C)		0	TEK OLIEK MLIER	
Battery	Operating		Measureme	ent	on	
manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp.		
402030	Normal condition	4.2	0.00	>45°C	Stop charging	
	(B P- SC)	4.2	0.00	>45°C	Stop charging	. LITER
	Normal condition	4.0	0.02	0	The charging voltage doe not exceed 4.2V and the charging current does no exceed0.250A	
	(B P- SC)	4.0	0.02	White white	The charging voltage do not exceed 4.2V and the charging current does not exceed 0.250A	

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.

For chargingbase: Max. charge current by manufacturer: 0.250A, Max. discharge current by manufacturer: 0.250A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.030A.

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A						
Output	Output Condition		Time (a)	I _{sc} (A)		S (VA)	
Circuit Condition		U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
ne me	Normal	L -164	10 - 10 C	A COLLEGE	8	T. Carre	100
TEN TEN	Single fault - SC/OC	11/2 1	-711		8	- -	100

Supplementary Information:

SC = short circuit, OC = open circuit

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The same	M M A St	EN IEC 62368-1	mir any
Clause	Requirement – Test	Result – Remark	Verdict

Г.2, Т.3, Г.4, Т.5	TABLE: S	teady force to						N/A	
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)		Obse	rvation	
et - et	J 10 1	LEK INTER	ner - wh	a ₁	- 7n	- 4	, t	,et	TEX S
Supplementa	ary informati	on:							

T.6, T.9	TABLE: Impa	ct test				N/A
Location/Par	t Material	Thickness (mm)	Height (mm)		Observation	
Lite While	Aug -aug	24 - 24	Ī.	ot the	TEK SLIEK IN	LIE WILL W
Supplementa	ary information	:				
NALLY V	hr mr	24. 24.		t set se	the still	White when

T.7 TA	ABLE: Drop	test	the left of the state of the same					
Location/Part	Material	Thickness (mm)	Height (mm)	Observation Enclosure remained intact, no crack/ opening developed. No hazards.				
Enclosure	Plastics	See table 4.1.2	1000					
Supplementary	/ information							
t et e	ER LIER	WITE WILL V	11. 24.	The state of the state of				

T.8 T	ABLE: Stres	s relief test				A 18	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)		Observation	
	* - st	CH- THE	mil <u>er</u> uni	No.	ang m	r 24 20	
Supplementar	y information:						
		at at	SITE MIT	JALL .	mr m	24, 25.	

X TABLE: Alte	TABLE: Alternative method for determining minimum clearances distances								
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)						
THE THE STEEL OUT	WILL AUG - AUG - A	- 4	A A -	TEX STE					
Supplementary information:									
IL TEX STER OUTE	Wille Mrs. Mr. An.		y dit s	EX LIEK					



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

4.1.2	TABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard ²	Mark(s) of conformity ¹		
Speaker for headset	Interchangeable	Interchangeabl e	Max. 5mW, 32Ω±15%, 2PCS	EN IEC 62368-1	Test with appliance		
Plastic enclosure	Interchangeable	Interchangeabl e	Min.HB, Min.60°C, min. thickness 1.5mm	UL 94	ULITER WHITE		
Bamboo materialencl osure	Interchangeable	Interchangeabl e	Min. thickness 2.0mm; pass the Glow-Wire test at 550°C.	EN IEC 62368-1 according to IEC 60695-2-11	Tested with Appliance		
All PCB	Interchangeable	Interchangeabl e	Min. V-1, Min. 105°C	UL 796	UL TER WALL		
Internal Li- ion battery (for charging base)	SHENZHEN BIYATE ENERGY CO.,LTD	402030	3.7V, 185mAh	IEC 62133-2: 2017 IEC 62133- 2:2017/AMD1:2021 EN 62133-2: 2017; EN 62133- 2:2017/AMD1:2021	Test Report No.: TCT250224B0 37		
Internal lithium ion battery (for earbuds)	ZaoyangGexin Electronic Technology Co., Ltd	GX 450909	3.7V, 30mAh	IEC 62133-2:2017	Test Report No.: TSZ23051136 -P01-R01		

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

²⁾License available upon request.



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Reference No.: WTF25D02033950Y

Model: MO6128



Figure 1: External view



Figure 2: External view



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Figure 3: Internal view



Figure 4: Internal view



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Reference No.: WTF25D02033950Y

Model: MO6780



Figure 5: External view



Figure 6: External view



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Figure 7: Internal view



Figure 8: Internal view



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Figure 9: Earbuds



Figure 10: Earbuds



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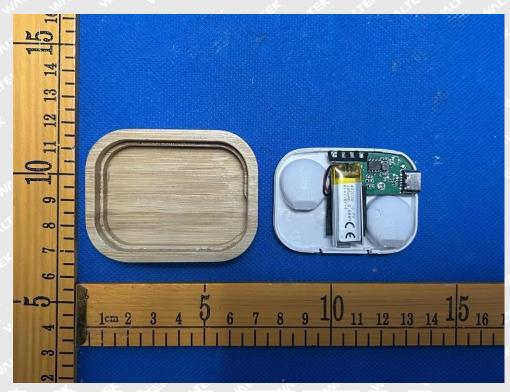


Figure 11: Internal view for charging base

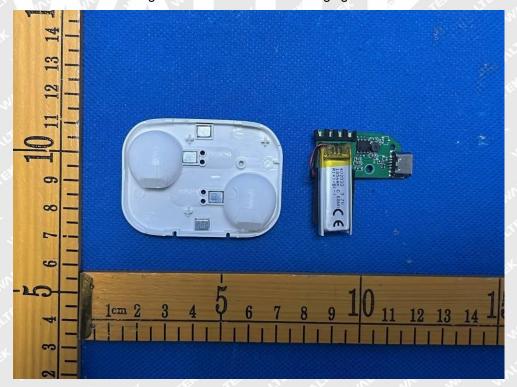


Figure 12: Internal view for charging base



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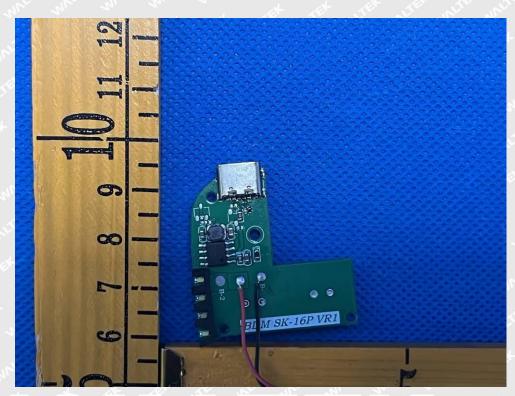


Figure 13: PCB view for charging base



Figure 14: PCB view for charging base



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Figure 15: Battery for charging base



Figure 16: Internal view for earbuds



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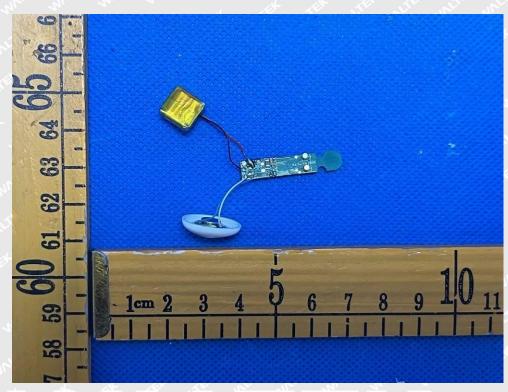


Figure 17: Internal view for earbuds



Figure 18: PCB view for earbuds



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Photo Documentation

Reference No.: WTF25D02033950Y

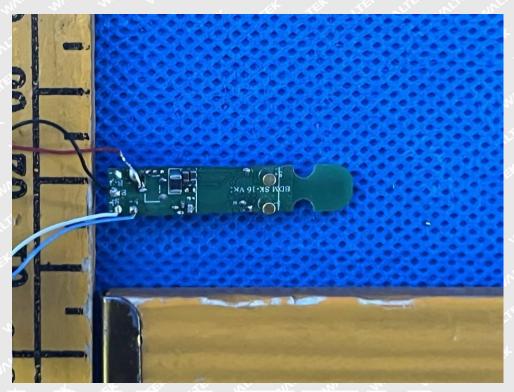


Figure 19: PCB view for earbuds

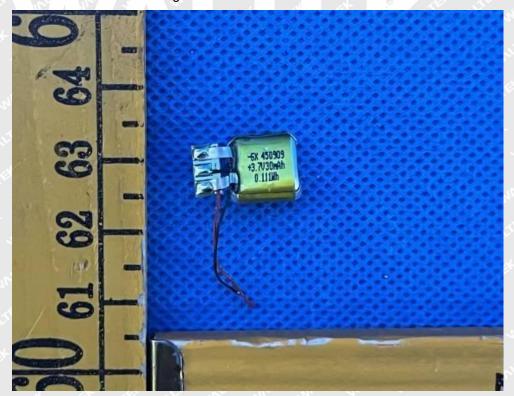


Figure 20: Battery for earbuds

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