



TEST REPORT

Reference No. : WTF22D10207234Y

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... : 117486

Address: : --

Product: 3W Bamboo wireless speaker

Model(s)..... : MO6813

Total pages.....: 69 + 5 pages of photo documentation

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample : 2022-10-19

Date of Test : 2022-10-19 to 2022-11-04

Date of Issue 2022-11-04

Test Result: Pass

Remarks:

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

Prepared By:

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Compiled by:

Approved by:

Soap Hu/ Project Engineer

Sam Qi / Designated Reviewer



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Test item description:	3W Bamboo	wireless speaker
Trademark:	МОВ	
Model and/or type reference:	MO6813	
Rating(s):		(Supplied by micro USB-C port) m-ion Battery: 3.7Vdc, 300mAh, 1.1Wh
Remark:		
Whether parts of tests for the product h	nave been sub	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lat	o information:	
Test items:		
Lab information:	- 10 3	the wife the sure and all the
Summary of testing:	aug, and	The state of the s
Tests performed (name of test and test	: clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020	al mana la cassida	No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
The submitted samples were found to the requirements of above specification		Trought Town, Doinggoan Oity, Guangaong, Shina
Summary of compliance with National	Differences (Li	ist of countries addressed):
m m		
EU Group Differences		
Mr. Mr. M. A.		
The product fulfils the requirements	of EN IEC 623	368-1:2020+A11:2020.
Use of uncertainty of measurement for	decisions on o	conformity (decision rule) :
applicable limit according to the spec	cification in the	rd, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
Other: (to be specified, for example requirements apply)	e when require	ed by the standard or client, or if national accreditation
Information on uncertainty of measurer	ment:	
		the laboratory based on application of criteria given by nethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on		n of measurement uncertainty principles and applying in IECEE scheme, noting that the reporting of the

measurement uncertainty for measurements is not necessary unless required by the test standard or

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

customer.

the testing.





Copy of marking plate:



Remark:

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



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TEST ITEM PARTICULARS:	ber we me in the fit
Product group	⊠end product □built-in component
Classification of use by:	☑ Ordinary person☑ Children likely present☑ 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 ☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other:
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not Mains connected
Class of equipment	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ ☐
Access location	N/A ☐ restricted access area ☐ outdoor location ☐
Pollution degree (PD)	□PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40°C Outdoor: minimum°C
IP protection class:	☐ IP
Power Systems:	☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains
Altitude during operation (m):	2000 m or lessm
Altitude of test laboratory (m)	
Mass of equipment (kg)	⊠0.151kg



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POSSIBLE TEST CASE VERDICTS:	by the the to the
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	The the state of t
Date of receipt of test item:	2022-10-19
Date (s) of performance of tests:	2022-10-19 to 2022-11-04
GENERAL REMARKS:	LIES SLIES WILL MALL WALL WALL WALL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to	
"(see appended table)" refers to a table appended to the state of the	the report.
"(see appended table)" refers to a table appended to a Throughout this report a ☐ comma / ☒ point is u	the report. sed as the decimal separator. unit, class III.
"(see appended table)" refers to a table appended to a Throughout this report a comma / point is u GENERAL PRODUCT INFORMATION: Product Description 1. The product is a Bluetooth Speaker, transportable u 2. The maximum operating temperature is 40°C.	the report. sed as the decimal separator. unit, class III.



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



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ENERGY SOURCE DIAGRAM

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

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

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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4		3. age 5 5. 55		
EN IEC62368-1			ir. mr. m.	
Clause	Requirement – Test	MUT. All A	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P.+
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2 MARIER	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	IN P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	√n P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
1.4.3	Safeguard robustness	See below	ŰΡ
4.4.3.1	General	2 21 211 211	Р
4.4.3.2	Steady force tests	(See Annex T.2and T.4)	J P
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	agt the tiet atternation	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
is and	Glass impact test (1J)	LIER RITER WITE WATER	N/A
* .64	Push/pull test (10 N)	7 7 7	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.3,4.4.3.4, 4.4.3.8, no safeguard damaged.	WP WITE
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	at at let the	P.T
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	P



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20,	EN IEC62368-	in we were	20, 20
Clause	Requirement – Test	Result – Remark	Verdict
150		(0 V 0) V D 0 D 0)	10
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P.N
	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	20 P
EN LIE	Fix conductors not to defeat a safeguard	at at alt get	JE P
- 24	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socke	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	TEX TEX STEE WITE	N/A
4.8	Equipment containing coin/button cell batteries	Mr. Mr. M. M.	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	of let let little	N/A
4.8.3	Battery compartment door/cover construction	The Mrs. M. M.	N/A
NITE	Open torque test	TEX TEX STEE OUT	N/A
4.8.4.2	Stress relief test	The sure sure	N/A
4.8.4.3	Battery replacement test	At Market Mile	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test	TE ALTE MIN WALTER	N/A
4.8.4.6	Crush test	20, 20, 34	N/A
4.8.5	Compliance	A WILL WILL MALL MA	N/A
,et	30N force test with test probe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
mr m	20N force test with test hook	INLIES WALL WALL WALL	N/A
4.9	Likelihood of fire or shock due to entry of cond	uctive object	Р
4.10	Component requirements	Write Write Mary And	N/A
4.10.1	Disconnect Device	at at all the	N/A
4.10.2	Switches and relays	in muri mur mur m	N/A
	The strength of the strength o		(I) (V)
5	ELECTRICALLY-CAUSED INJURY		√ll P
5.2	Classification and limits of electrical energy sou	rces	P
5.2.2	ES1, ES2 and ES3 limits	(0, , , , , , , , , , , , , , , , , , ,	" Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A



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01	EN IEC62368-	7, 70, 7,	1/
Clause	Requirement – Test	Result – Remark	Verdict
5.2.2.7	Audio signals	And the transfer of the transf	N/A
5.3	Protection against electrical energy sources	THE LITER NUTER AND	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	TEX TEX TEX STEE	PLIEP
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	his me me an	N/A
5.3.1 b)	Skilled personsnot unintentional contact ES3 bare conductors	TER WHITER WHITER WHITER W	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
mer win	Accessibility to outdoor equipment bare parts	alter miter and white	N/A
5.3.2.2	Contact requirements	an an at the	N/A
ic. Mr.	Test with test probe from Annex V	LIET MILE WALL WALL	<u> </u>
5.3.2.2 a)	Air gap – electric strength test potential (V)	e e et et	N/A
5.3.2.2 b)	Air gap – distance (mm)	er write write were w	N/A
5.3.2.3	Compliance	at at all a	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at the life	J P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	The Little	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	Р
5.4.1.5	Pollution degrees	"Mris Mris Mrs M	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	SLIER WITER SWITER SWITE	N/A
5.4.1.5.3	Thermal cycling test	and the state of	N/A
5.4.1.6	Insulation in transformers with varying dimensions	LITE WITE WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	a at at all	N/A
5.4.1.8	Determination of working voltage	in white with the w	N/A
5.4.1.9	Insulating surfaces	- A At At S	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	unit we we will	N/A
5.4.1.10.2	Vicat test	WITE WILL MULL WILL	N/A
5.4.1.10.3	Ball pressure test	L A A A	N/A
5.4.2	Clearances	THE WALL MALL WALL	N/A
5.4.2.1	General requirements	at at all all	N/A
July .	Clearances in circuits connected to AC Mains, Alternative method	with the state	N/A
5.4.2.2	Procedure 1 for determining clearance	alter alter with wall	N/A



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01	EN IEC62368-	2, 7), 7, 7, 7, 7,	N/ P /
Clause	Requirement – Test	Result – Remark	Verdict
70, 7	Temporary overvoltage	Mr. Ann Mr.	70 70
5.4.2.3	Procedure 2 for determining clearance	18 11 11 11 11 11 11 11 11 11 11 11 11 1	N/A
5.4.2.3.2.2	a.c. mains transient voltage	mer mer m	
5.4.2.3.2.3	d.c. mains transient voltage	LITER ALTER WALTER	V
5.4.2.3.2.4	External circuit transient voltage		
5.4.2.3.2.5	Transient voltage determined by measurement	TEX MITTER WAS	2 7 -
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	t Wilet Writer Write	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	SLIEF SLIEF MITER	N/A
5.4.2.6	Clearance measurement	in in	N/A
5.4.3	Creepage distances	LITER WITE WITE WI	N/A
5.4.3.1	General	, , , , , ,	N/A
5.4.3.3	Material group	er white mail mai	- m
5.4.3.4	Creepage distances measurement	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.4	Solid insulation	WILL MULL MULL	N/A
5.4.4.1	General requirements	at the	N/A
5.4.4.2	Minimum distance through insulation	and the same	N/A
5.4.4.3	Insulating compound forming solid insulation	**************************************	N/A
5.4.4.4	Solid insulation in semiconductor devices	is me me m	N/A
5.4.4.5	Insulating compound forming cemented joints	of the the	N/A
5.4.4.6	Thin sheet material	mer mer m	N/A
5.4.4.6.1	General requirements	TER STER STER	N/A
5.4.4.6.2	Separable thin sheet material	me m. n.	N/A
The Murie	Number of layers (pcs)	THE STEEL WITTEN	N/A
5.4.4.6.3	Non-separable thin sheet material	12. 14. 15.	N/A
MULL	Number of layers (pcs)	IEK SLIEK WITE WATE	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	- THE THE STEE	N/A
5.4.4.6.5	Mandrel test	me me	N/A
5.4.4.7	Solid insulation in wound components	LIEN ALTER MATERIAL	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	of the text	N/A
y Jex	Alternative by electric strength test, tested voltage (V), K_R	t it it is	N/A
5.4.5	Antenna terminal insulation	" WILL AVE AND	N/A
5.4.5.1	General	J. J. J.	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
21/2		EL MULLE AND AND	we will
5.4.5.2	Voltage surge test	***	N/A
5.4.5.3	Insulation resistance (MΩ)	MALIE MALIE MALE	N/A
The S	Electric strength test	1 1 1	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	Will Muli Augh A	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TEX WHITER WHITER WAS	N/A
5.4.8	Humidity conditioning	t TEX STEX STE	N/A
SEL N	Relative humidity (%), temperature (°C), duration (h)	My My My	
5.4.9	Electric strength test	MILL ANT. MILL	N/A
5.4.9.1	Test procedure for type test of solid insulation	at at at	N/A
5.4.9.2	Test procedure for routine test	The Mary May My	N/A
5.4.10	Safeguards against transient voltages from external circuits	EX WITER WHITER WHI	N/A
5.4.10.1	Parts and circuits separated from external circuits	A A A	N/A
5.4.10.2	Test methods	avrig wire mir	N/A
5.4.10.2.1	General	The state of the s	N/A
5.4.10.2.2	Impulse test	7 July 1	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	The state	N/A
5.4.11	Separation between external circuits and earth	WILL WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	street mitest smitest	N/A
5.4.11.2	Requirements	74 7 X	N/A
x 24	SPDs bridge separation between external circuit and earth	HITE WALTER WALTER W	N/A
MULL	Rated operating voltage U _{op} (V)	EK SLIER NLIER WAY	_ n, _
, At	Nominal voltage U _{peak} (V)	40, 40,	_
ANDER W	Max increase due to variation ΔU _{sp}	CALLE ANTICE MALTE	ani _
All A	Max increase due to ageing ΔU _{sa}	20 76 7	, et
5.4.11.3	Test method and compliance	WILL WILL MULL	N/A
5.4.12	Insulating liquid	a at at	√ N/A
5.4.12.1	General requirements	LIE WILL MUIT M	N/A
5.4.12.2	Electric strength of an insulating liquid	a at at a	N/A
5.4.12.3	Compatibility of an insulating liquid	WALL MALL MALL	N/A
5.4.12.4	Container for insulating liquid	4. 4. 4.	N/A

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	All the state of	EN IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.5	Components as safeguards		N/A
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	TEK TIEK NITER MITE	N/A
5.5.2.1	General requirement	L. M. M. M.	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	LEK WHITE WHITE WHITE	N/A
5.5.3	Transformers	t tet tet tiet tiet o	N/A
5.5.4	Optocouplers	Mr. Mr. Mr.	N/A
5.5.5	Relays	TEX LIEK SLITER MIT	N/A
5.5.6	Resistors	me me me	N/A
5.5.7	SPDs	TER STER WITER WITER	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	at the that which	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	and and and a	N/A
2115 1	RCD rated residual operating current (mA)	MULL MULL MULL MU	_
5.6	Protective conductor	at the state of	N/A
5.6.2	Requirement for protective conductors	2 442 44	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	" Mr. M. M.	N/A
5.6.3	Requirement for protective earthing conductors	A THE LITTER OLITER AS	N/A
, t	Protective earthing conductor size (mm²)	Mr. Mr. Mr.	_
Mrti M	Protective earthing conductor serving as a reinforced safeguard	MULTER WHITE WHITE WHITE	N/A
LIER WAL	Protective earthing conductor serving as a double safeguard	Lifet on the writes on the	N/A
5.6.4	Requirements for protective bonding conductors	at the set	N/A
5.6.4.1	Protective bonding conductors	MULL AND AND A	N/A
LIEK	Protective bonding conductor size (mm²)	- It let let	<u> </u>
5.6.4.2	Protective current rating (A)	mer mer mer m	N/A
5.6.5	Terminals for protective conductors	THE THE LIEF WITH	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	of the text text	N/A
k 76k	Terminal size for connecting protective bonding conductors (mm)	The man was an	N/A
5.6.5.2	Corrosion	THE MILE WALL W	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	alter out only one	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
The	White the state of the state of	the write with my	- 21/L
5.6.6.2	Test Method		N/A
5.6.6.3	Resistance (Ω) or voltage drop	WILL MILL MILL MILL	N/A
5.6.7	Reliable connection of a protective earthing conductor	TEX LIEX NITER MITER	N/A
5.6.8	Functional earthing	in the second	N/A
in Maria	Conductor size (mm²)	TER STER WITE WITE I	N/A
	Class II with functional earthing marking	24	N/A
JUNE -	Appliance inlet cl &cr (mm)	LIER WITE WALL WA	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	WILL WILL MAN	N/A
5.7.2.1	Measurement of touch current	a state of	N/A
5.7.2.2	Measurement of voltage	LIFE WALL WALL WALL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	ex while writer whilek w	N/A
5.7.4	Unearthed accessible parts	20 x	N/A
5.7.5	Earthed accessible conductive parts	CHIEF WILL WALL WALL	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	THE STATES MALTER	N/A
at a	Protective conductor current (mA)	1 1 1 1	N/A
in Murra	Instructional Safeguard	TE SITE WITH WALLE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	t the the state of	N/A
5.7.7.1	Touch current from coaxial cables	The My My	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	Whitek Whitek Whitek Whit	N/A
5.7.8	Summation of touch currents from external circuits	ster mile writer white	N/A
ek whitek	a) Equipment connected to earthed external circuits, current (mA)	et seret seret speret	N/A
MITER	b) Equipment connected to unearthed external circuits, current (mA)	- 1th 1th 1th of	N/A
5.8	Backfeed safeguard in battery backed up suppl	ies	N/A
in ^{lite} int	Mains terminal ES	No battery used	N/A
	Air gap (mm)	ne in in a	N/A

6	ELECTRICALLY- CAUSED FIRE	Р
6.2	Classification of PS and PIS	LIER CHE PLIE





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2/		
	200	

0,	EN IEC62368-	yes also also also a	7
Clause	Requirement – Test	Result – Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	PE
6.2.3	Classification of potential ignition sources	See the following details.	THE P
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	√n/P
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	Whit PK
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P ALTE A
	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	Multer white	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	TE MILTE WALLE WALTER	ALTE PAR
6.4.3.1	Supplementary safeguards	£ 25 76 16 1	P
6.4.3.2	Single Fault Conditions	Music Anti Anti Anti	N/A
CLIER OF	Special conditions for temperature limited by fuse	LEK TEK TEK NITE	N/A
6.4.4	Control of fire spread in PS1 circuits	mr. mr. m. m.	Р
6.4.5	Control of fire spread in PS2 circuits	THE THE THE STAR	P.
6.4.5.2	Supplementary safeguards	ier me m m	N/A
6.4.6	Control of fire spread in PS3 circuits	lit if the liter outling	N/A
6.4.7	Separation of combustible materials from a PIS	Mr. Mr. M.	N/A
6.4.7.2	Separation by distance	tex witer witer whi	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 plastic enclosure used	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 plastic enclosure used	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A





-20.	EN IEC62368-	2 W 22 2	Z
Clause	Requirement – Test	Result – Remark	Verdict
- 1000		Er Tr with Mr. W.	100
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
18th 3	Openings dimensions (mm)	the state of	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
EX JEX	Openings dimensions (mm)	and the set	N/A
- July	Flammability tests for the bottom of a fire enclosure	ite white white white w	N/A
	Instructional Safeguard	A SLIER WIFE WHILE WAS	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
ine in	Openings dimensions (mm)	ALTER MILE MALL WALL	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	The The The Land	N/A
6.5	Internal and external wiring	- Let Tex Jet St	Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P. WALTER
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	P
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to ac	dditional equipment	Р
The The		ality will older older	24
7	INJURY CAUSED BY HAZARDOUS SUBSTANC		Р
7.2	Reduction of exposure to hazardous substance	Str With Will Mult	N/A
7.3	Ozone exposure	and the state of t	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
CIEN	Personal safeguards and instructions	at at at a	
7.5	Use of instructional safeguards and instruction	S WELL WELL MUST AND	N/A
. CTETE	Instructional safeguard (ISO 7010)	at at alt all	_
7.6	Batteries and their protection circuits	MULL MULL MULL MULL	Р
TER JE	LITT WE WE AM A	e et et et	Carlotte Par
8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	at at let let.	P.O
8.3	Safeguards against mechanical energy sources	MUT MUT MUT MI	Р
8.4	Safeguards against parts with sharp edges and corners		Р



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Claura	EN IEC62368-	7 41 27 7	Manuffer
Clause	Requirement – Test	Result – Remark	Verdict
8.4.1	Safeguards	the the the the	Р
(CL)	Instructional Safeguard:	MS1: Edges and corners of	Р
	instructional Galeguard	enclosure	20.
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	MILL P
8.5	Safeguards against moving parts	et let let liet.	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
are and	Moving MS3 parts only accessible to skilled person	SLIFE WILL MULL MULL	N/A
8.5.2	Instructional safeguard:	20. 20 T T T	N/A
8.5.4	Special categories of equipment containing moving parts	Liet write write war.	N/A
8.5.4.1	General	EX SITES INSTEED STATES ON	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	20, 20,	N/A
8.5.4.2.1	Protection of persons in the work cell	CHIEF WITE WALL WAL	N/A
8.5.4.2.2	Access protection override	The set	N/A
8.5.4.2.2.1	Override system	The gent wat	N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system	The Maria Maria Maria A	N/A
WALTER	Maximum stopping distance from the point of activation (m)	t milet milet militer mi	N/A
	Space between end point and nearest fixed mechanical part (mm)	LIER STER WILER MILE	N/A
3.5.1 3.5.2 3.5.4.1 3.5.4.2.1 3.5.4.2.2 3.5.4.2.2.1 3.5.4.2.2.2 3.5.4.2.2.2 3.5.4.2.3 3.5.4.2.3	Endurance requirements	an an at at	N/A
	Mechanical system subjected to 100 000 cycles of operation	HIER MILLE WHILE WHILE	N/A
E WALTER	- Mechanical function check and visual inspection	ER LIER WIFE WIFE W	N/A
d	- Cable assembly:	711. 121. 2	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	WHITE WHITE WHITE WH	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:	ne me	N/A
8.5.4.3.3	Disconnection from the supply	TEX SITER INTER WAITE	N/A
8.5.4.3.4	Cut type and test force (N)	20 20 A	N/A
8.5.4.3.5	Compliance	IN THE MALTE WALLE WA	N/A
8.5.5	High pressure lamps	No high pressurelamps used.	N/A
are an	Explosion test:	alife with with which	N/A



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Clause	EN IEC62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.5.5.3	Glass particles dimensions (mm):	The The M. D.	N/A
8.6	Stability of equipment	TER STEE WILL AND	N/A
8.6.1	General	MS1: Mass of the unit	N/A
The Think	Instructional safeguard:	alter mite white white	N/A
8.6.2	Static stability	The state of the s	N/A
8.6.2.2	Static stability test	TEX MILE MULTE MUST	N/A
8.6.2.3	Downward force test	L A ST ST	N/A
8.6.3	Relocation stability	Were Mary My My	N/A
ALTER II	Wheels diameter (mm):	At Alt of the	
113	Tilt test	me me me	N/A
8.6.4	Glass slide test	TER ITER LITER MITTER	N/A
8.6.5	Horizontal force test	7, 70, 70, 70	N/A
8.7	Equipment mounted to wall, ceiling or other stru	ıcture	N/A
8.7.1	Mount means type:	No wall or ceiling	N/A
8.7.2	Test methods	CHIEF WILLER WILLER WA	N/A
Let .	Test 1, additional downwards force (N):		N/A
'	Test 2, number of attachment points and test force (N)	The first sur	N/A
in vivia	Test 3 Nominal diameter (mm) and applied torque (Nm)	TE WHITE WILL WHITE	N/A
8.8	Handles strength	et tet tret alle o	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	THE STREET WITH MAN	N/A
,+ .	Number of handles	Mr. 201 20	_
Tree Alver	Force applied (N)	LIER OLIER SPLIES SUNITE	1000 -0
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	e at at at	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	WITE WITE WAITE WALL	N/A
8.10.3	Cart, stand or carrier loading test		N/A
" Alv	Loading force applied (N)	LIET MILL WALL WALL	N/A
8.10.4	Cart, stand or carrier impact test	I A ST ST	N/A
8.10.5	Mechanical stability	a returned to	N/A



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	EN IEC62	368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Me	M. M. A.	LIE ALTE WITH MALL	Mrs. Mrs.
8.10.6	Thermoplastic temperature stability	21, 21, 2, 4	N/A
8.11	Mounting means for slide-rail mounted equ	ipment (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	IEX DITE WALTE WALL VI	N/A
CEF JE	Instructional Safeguard		N/A
8.11.3	Mechanical strength test	THE MULL MULL MA	N/A
8.11.3.1	Downward force test, force (N) applied	······································	N/A
8.11.3.2	Lateral push force test	white white white white	N/A
8.11.3.3	Integrity of slide rail end stops	at let let liet	N/A
8.11.4	Compliance	ite aut aut au	N/A
8.12	Telescoping or rod antennas	of the text of the	N/A
	Button/ball diameter (mm)	: No such parts	_

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits	tr mr m m	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	TEN P
9.4	Safeguards against thermal energy sources	Merch And And And A	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 MALTER
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitte	ers the party with the	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	RITE INTE WALL WALL WALL WALL	N/A
9.6.3	Test method and compliance	:	N/A

10	RADIATION		P N
10.2	.2 Radiation energy source classification		U. Bill
10.2.1	General classification	See below	EF PARK
11/12	Lasers:	the write with the wo	_
MATER	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low	_



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	EN IEC62368-	Life with white white	
Clause	Requirement – Test	Result – Remark	Verdict
-ch		power application.	70
CLIEN II	Image projectors	All All All All	·
11 22	X-Ray:	an and an an	
LITE ME	Personal music player:	TET ITET ALTER ALTER	
10.3	Safeguards against laser radiation	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
All Life	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	Р
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	un!P
LIEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	LIEK MITER WATER WATER	N/A
y Jest	Risk group marking and location:	a state	N/A
Miles	Information for safe operation and installation	er unit mair and w	N/A
10.4.2	Requirements for enclosures	at the set of	N/A
in i	UV radiation exposure:	MULL MULL MULL MULL	N/A
10.4.3	Instructional safeguard:	at the life	N/A
10.5	Safeguards against X-radiation	2 July My	N/A
10.5.1	Requirements	No X-radiation	N/A
	Instructional safeguard for skilled persons	y mr. m. m.	_
10.5.3	Maximum radiation (pA/kg)	A TEX LIEX NITER OF	<u> </u>
10.6	Safeguards against acoustic energy sources	74 74 24 24 25	Р
10.6.1	General	LIER ALTER MATERIANA	W. P
10.6.2	Classification	Headphones: RS2	Р
er arer	Acoustic output $L_{Aeq,T}$, dB(A):	Left: 94.0dB, Right: 93.8dB See EN 50332-2 test report No.: WTF20X10077842Y.	JEE IN
TEX	Unweighted RMS output voltage (mV):	No such electrical output socket	N/A
21/2, 2	Digital output signal (dBFS)	MULTE MALL MAL MAN	N/A
10.6.3	Requirements for dose-based systems	at at att of	N/A
10.6.3.1	General requirements	MULL MULL MULL MULL	N/A
10.6.3.2	Dose-based warning and automatic decrease	at all the title	N/A
10.6.3.3	Exposure-based warning and requirements	The me me	N/A
NITE	30 s integrated exposure level (MEL30):	at let like like o	N/A
7	Warning for MEL ≥ 100 dB(A)	MUT. All M. M.	N/A

Measurement methods

10.6.4



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	EN IEC62368-	Life with white wh	
Clause	Requirement – Test	Result – Remark	Verdict
alle	THE THE STATE OF T	TER LIFE WITH WILL	The The
10.6.5	Protection of persons	71 71 74	P
Mr. M	Instructional safeguards:	ALTER MLTE MALTE	MILL MAD M
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	TEX STEX SUPER	NITEX WALTER WAL
10.6.6.1	Corded listening devices with analogue input	he in in	N/A
in MUCL	Listening device input voltage (mV):	THE STIFF STIFF IN	N/A
10.6.6.2	Corded listening devices with digital input	14 14	N/A
White o	Max. acoustic output L _{Aeq,T} , dB(A):	E LIER RETER WITE	N/A
10.6.6.3	Cordless listening devices	20, 2, 7	N/A
mer in	Max. acoustic output L _{Aeq,T} , dB(A):	LIFE OLIVE MALLE	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Mil. Bal
B.1	General		TE PUT
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	A TEX STEX SITES ONLY	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
et te	Audio Amplifiers and equipment with audio amplifiers:	The sure sure	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	Р
B.2.5	Input test	(See appended table B.2.5)	of Pole
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
LTER INLT	Instructional safeguard:	et get get get	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	P
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	un ^L P
B.4	Simulated single fault conditions		LIE PUR
B.4.1	General	ing the same and	Р



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20,	EN IEC62368-	the week the the	14. 12.
Clause	Requirement – Test	Result – Remark	Verdict
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	Р
B.4.3	Blocked motor test	No motors	N/A
3.4.4	Functional insulation	See below.	Ph
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
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)	MITE P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	TEX P
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	LIER NITER INLIED WHITE	N/A
C.2	UV light conditioning test	u a a	N/A
C.2.1	Test apparatus	IF MITE WITE WALL W	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test	mitty white white whi	N/A
C.2.4	Xenon-arc light-exposure test	L A A A	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	at the test test	N/A
D.2	Antenna interface test generator	THE MUTTER MUTE AND A	N/A
D.3	Electronic pulse generator	at at at at	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	ING AUDIO AMPLIFIERS	N/A
E.1<	Electrical energy source classification for audio	o signals	N/A



EN IEC62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
n.	with the state of the state of	ET WILL WALL MAY MA	10
at the second	Maximum non-clipped output power (W):		
mr m	Rated load impedance (Ω)	WILL MULL MULL MULL	
all s	Open-circuit output voltage (V):	a at let let	
Ver Talle	Instructional safeguard:	ALTER WALTER WALF WALF	
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:	er Auri, Aur. Aur. M	
OLITEE .	Audio output power (W):	t let let little little	_
20,	Audio output voltage (V)	Mer Mer Mr. M.	_
INLIE . UI	Rated load impedance (Ω):	TEX STEE SLIFE BLIFE	
	Requirements for temperature measurement	Mr. Mr. Mr. Mr.	N/A
E.3	Audio amplifier abnormal operating conditions	THE LIEF SLIEF SHIFT	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	I P
F.1	General	me me me	Р
WILL O	Language	English	_
F.2	Letter symbols and graphical symbols	My My My	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	MINE 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.	P"
F.3	Equipment markings	s of all all	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	W P
F.3.2	Equipment identification markings	See below for details.	JE PA
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	P
F.3.3	Equipment rating markings	See below for details.	Р
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A
F.3.3.2	Equipment without direct connection to mains	See above.	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	P.V
F.3.3.4	Rated voltage:	See copy of marking plate.	, P
F.3.3.5	Rated frequency:	DC supply	Р
F.3.3.6	Rated current or rated power:	See copy of marking plate.	P
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A



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	EN IEC62368-	2, 70, 2, 2,	27.
Clause	Requirement – Test	Result – Remark	Verdict
F.3.4	Voltage setting device	No voltage potting device	N/A
((')	Voltage setting device	No voltage setting device.	40
F.3.5	Terminals and operating devices	They have the the	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	TEX TEX STEX SUFER	N/A
F.3.5.2	Switch position identification marking:	W. M. A.	N/A
F.3.5.3	Replacement fuse identification and rating markings	LEK WALTER WALTER WALTER A	N/A
	Instructional safeguards for neutral fuse:	t tet tet ates mi	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	m m m	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	of let let little	N/A
F.3.6.1.1	Protective earthing conductor terminal:	The The The In	N/A
F.3.6.1.2	Protective bonding conductor terminals:	TEN TEN STEEL SET	N/A
F.3.6.2	Equipment class marking	whi me me	N/A
F.3.6.3	Functional earthing terminal marking:	Et Just Mile	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	LITER I
F.3.8	External power supply output marking:	See copy of marking plate.	Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10 AND THE TOTAL THE T	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.	JUP P JEK JUP JEK J
F.4	Instructions		P
147	a) Information prior to installation and initial use	See user manual	Р
WALTER	b) Equipment for use in locations where children not likely to be present	it stiff wifet wifet	N/A
1	c) Instructions for installation and interconnection	20, 20, 3	N/A



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	EN IEC62368-	are the also	72, 7
Clause	Requirement – Test	Result – Remark	Verdict
w.	M. M. T.	TER MILTERIAL MILE	Mun An
.nlife!	d) Equipment intended for use only in restricted access area	THE THE THE	N/A
	e) Equipment intended to be fastened in place	Mr. Mr. M.	N/A
المالة الماليا	f) Instructions for audio equipment terminals	TEN LITER OLITER AND	N/A
الد عد	g) Protective earthing used as a safeguard	in in in	N/A
MULL	h) Protective conductor current exceeding ES2 limits	TER WHITER WHITER WHIT	N/A
WITE.	i) Graphic symbols used on equipment	ct rest into inter	N/A
Tet	j) Permanently connected equipment not provided with all-pole mains switch	The the the	N/A
The the	k) Replaceable components or modules providing safeguard function	mer mer mer a	N/A
ir. Aurr	Equipment containing insulating liquid	LIER WILL WALLE WA	N/A
it Tex	m) Installation instructions for outdoor equipment		⊱ N/A
F.5	Instructional safeguards	TET WITE WALL WALL	N/A
G	COMPONENTS		Р
G.1	Switches	White with whi	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	2 Mr. 41	N/A
G.1.3	Test method and compliance		N/A
G.2	Relays	yer were were	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	Mr. Mr. M.	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	UNITER WALTER WALTER	N/A
G.2.4	Test method and compliance	at at let	N/A
G.3	Protective devices	mer were me	N/A
G.3.1	Thermal cut-offs	No such component	N/A
TEK.	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	t ex ex	N/A
711. 7	Thermal cut-outs tested as part of the equipment as indicated in c)	MULL MILL MAR	N/A
G.3.1.2	Test method and compliance	WITE WILL WALL OF	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	LIET WATE WATE MALE	N/A
ALL!	b) Thermal links tested as part of the equipment	SER STEE WILL SUITE	N/A
G.3.2.2	Test method and compliance	100 July 1	N/A
G.3.3	PTC thermistors	No such component	N/A



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-20,	EN IEC62368-	ere and when when	20, 40
Clause	Requirement – Test	Result – Remark	Verdict
The .	M. M. The state of	Er Will Marie Mr.	Mun Alle
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	White White White	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	NITER WHITER WHITER WA	N/A
G.3.5.2	Single faults conditions	at the tell of	N/A
G.4	Connectors	The Marian	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	Aller Aller All	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	ONLIER WALLER WALLER	N/A
G.5	Wound components	at left left is	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	et let let let	N/A
G.5.2	Endurance test	The Me Me	N/A
G.5.2.1	General test requirements	LET JET JIET	N/A
G.5.2.2	Heat run test	Mr. In In.	N/A
neite mei	Test time (days per cycle)	At O STEEL	111° —
at all	Test temperature (°C):	2 1	.L -
G.5.2.3	Wound components supplied from the mains	THE LIFE WITH MILE	N/A
G.5.2.4	No insulation breakdown	70 4	N/A
G.5.3	Transformers	A WILL WILL MULL	N/A
G.5.3.1	Compliance method:	1 × c+	N/A
me, m	Position:	Will Mile Marie A	N/A
18# J	Method of protection:		N/A
G.5.3.2	Insulation	ALTE WALT WAL WA	N/A
EX JEX	Protection from displacement of windings:	at at at a	<i>y</i>
G.5.3.3	Transformer overload tests	INVEL AND AIR	N/A
G.5.3.3.1	Test conditions	- IN THE JES	N/A
G.5.3.3.2	Winding temperatures	Mr. Mr. Mr.	N/A
G.5.3.3.3	Winding temperatures - alternative test method	TEX TEX TEX	N/A
G.5.3.4	Transformers using FIW	me me me	N/A
G.5.3.4.1	General	TEX ITEX SITES ON	N/A
1 ×	FIW wire nominal diameter:	11. 11. 1.	_
G.5.3.4.2	Transformers with basic insulation only	et liet wiet wire	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	The set set	N/A



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20,	EN IEC62368-	The wife wife with	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
all a	M TO THE STATE OF	THE STATE WITH MINE	11/2 11/2
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	ist let little	N/A
G.5.3.4.5	Thermal cycling test and compliance	Mr. Mr. M.	N/A
G.5.3.4.6	Partial discharge test	THE LITTER ONLINE OF	N/A
G.5.3.4.7	Routine test	the an in a	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	74. 74. 74.	N/A
G.5.4.2	Motor overload test conditions	ALTER MITEL MILITER	N/A
G.5.4.3	Running overload test	74 7 7 7 7 T	N/A
G.5.4.4.2	Locked-rotor overload test	WILL WILL WALL A	N/A
TEX TE	Test duration (days):	A St St	TEK -
G.5.4.5	Running overload test for DC motors	THE WILL MULL MA	N/A
G.5.4.5.2	Tested in the unit	at at at all	N/A
G.5.4.5.3	Alternative method	MULL MULL MULL	N/A
G.5.4.6	Locked-rotor overload test for DC motors	at let let	N/A
G.5.4.6.2	Tested in the unit	Wer Mur Mur	N/A
SLIFE SOL	Maximum Temperature	It I TEN	N/A
G.5.4.6.3	Alternative method	2 4 20	N/A
G.5.4.7	Motors with capacitors	All All All All	N/A
G.5.4.8	Three-phase motors	211 211 211	N/A
G.5.4.9	Series motors	of the stiff with	N/A
A+	Operating voltage	Mr. 101. 12.	
G.6	Wire Insulation	LIER OLIER MITE	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	LITER OUTER MALTER AND	N/A
G.7	Mains supply cords	ar ar	- N/A
G.7.1	General requirements	No such component	N/A
TEK	Type:	t it it	
G.7.2	Cross sectional area (mm² or AWG)	WALL MALL WALL	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	NITER MITER MATERIAL	N/A
G.7.3.2	Cord strain relief	70. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	N/A
G.7.3.2.1	Requirements	LIET WALL WALL WAL	N/A
t Jet	Strain relief test force (N)	1 1 1 1 1 1	N/A
G.7.3.2.2	Strain relief mechanism failure	antic water water	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1 + 2+	N/A

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20,	EN IEC62368-	The way was and	an an
Clause	Requirement – Test	Result – Remark	Verdict
The .	M. M. S.	THE WALTER WALTER WALTER	The The
G.7.3.2.4	Strain relief and cord anchorage material	at at	N/A
G.7.4	Cord Entry	WILL WILL MILL	N/A
G.7.5	Non-detachable cord bend protection	" + + +	N/A
G.7.5.1	Requirements	ALTER WALTE WALL WA	N/A
G.7.5.2	Test method and compliance		N/A
- CK	Overall diameter or minor overall dimension, D (mm)	iter white white and	m —
Mer. 1	Radius of curvature after test (mm):	E STEEL WITE WALLE	int -
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements	WITE WALL MALL A	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	The MULL MALL MA	N/A
G.7.6.2.2	Test with 8 mm strand	s st st st	N/A
G.8	Varistors	in mil me me	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	With Mir Mir.	N/A
G.8.2.1	General	it the	N/A
G.8.2.2	Varistor overload test	2 24 24	N/A
G.8.2.3	Temporary overvoltage test	the to the st	N/A
G.9	Integrated circuit (IC) current limiters	The The The	N/A
G.9.1	Requirements	No such component	N/A
1	IC limiter output current (max. 5A):	The Ang An	_
Write W	Manufacturers' defined drift:	THE STEEL STEEL STEEL	mar —
G.9.2	Test Program	" " " " " " " " " " " " " " " " " " "	N/A
G.9.3	Compliance	LIER NITER AND FEBRUARY	N/A
G.10	Resistors		N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	a at at	N/A
G.10.3	Resistor test	UNITE WALL WALL	N/A
G.10.4	Voltage surge test	t it it	N/A
G.10.5	Impulse test	Write Mure Mury M	N/A
G.10.6	Overload test	at the state of	N/A
G.11	Capacitors and RC units	VILLE MULL MULL MULL	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	Maril Maril Maril	N/A
G.11.3	Rules for selecting capacitors	A A A	N/A



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Tigioreniee	10	EN IEC62368-1	LIET WILL WILL
Clause	Requirement – Test	Result – Remark	Verdict

G.12	Optocouplers	w	N/A
ang an	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
LITE WALL	Type test voltage V _{ini,a} :	TEX LIEX NUEL MITE	_
A 18	Routine test voltage, V _{ini, b}	L. M. M.	
G.13	Printed boards	TER SLIER WILL MILL AND THE WILL	N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A
G.13.2	Uncoated printed boards	et let let lite	N/A
G.13.3	Coated printed boards	White and any and	N/A
G.13.4	Insulation between conductors on the same inner surface	Liet Whitek Whitek Whitek	N/A
G.13.5	Insulation between conductors on different surfaces	EX SLIEK INLIER WIN	N/A
. St	Distance through insulation	70° × 34 A	N/A
112 M	Number of insulation layers (pcs):	CLIFE WALTE WALL WALL	
G.13.6	Tests on coated printed boards	The set	N/A
G.13.6.1	Sample preparation and preliminary inspection	White Murr	N/A
G.13.6.2	Test method and compliance	the test	N/A
G.14	Coating on components terminals	THE MUTT MUTT MUT A	N/A
G.14.1	Requirements	t let let let s	N/A
G.15	Pressurized liquid filled components	Wer, Mer Mer Mr.	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	mur, mur, mur, m	N/A
G.15.2.1	Hydrostatic pressure test	let let liet with	N/A
G.15.2.2	Creep resistance test	in my m	N/A
G.15.2.3	Tubing and fittings compatibility test	Et IET STEET WITE OF	N/A
G.15.2.4	Vibration test	My My My	N/A
G.15.2.5	Thermal cycling test	- THE STIES WITH WITH	N/A
G.15.2.6	Force test	20 20 T	N/A
G.15.3	Compliance	alife while while while	N/A
G.16	IC including capacitor discharge function (ICX)	a t	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
t feet	ICX with associated circuitry tested in equipment		N/A
21/2	ICX tested separately	CONTINUE WILL WILL WAY	N/A
G.16.2	Tests	4 4 14 16	N/A



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20,	EN IEC62368-	in the way we	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
an a	Mr. Mr. A. C.	EL WILL MULL WILL MI	211
MITER	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	the the title of	e —
	Mains voltage that impulses to be superimposed on:	and all all the	_
et et	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	With Man Man Man	_
G.16.3	Capacitor discharge test:	THE OUTER WHICH WALL V	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	WILL WILL MILL MI	N/A
H.2	Method A	a a at a	N/A
H.3	Method B	White Marie Marie Marie	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	EX STER STER WITE S	· —
H.3.1.2	Voltage (V)	The The Table	_
H.3.1.3	Cadence; time (s) and voltage (V)	ALTER MITE WALLE WAL	_
H.3.1.4	Single fault current (mA)::		<u> </u>
H.3.2	Tripping device and monitoring voltage	multi mail	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	THE STEE SHIPE	N/A
H.3.2.2	Tripping device	Z11 Z Z	N/A
H.3.2.3	Monitoring voltage (V)	A WITE WHITE WALL WA	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	201. 21. 22. 7 X	N/A
The Mar	Winding wire insulation	LIER NITER WITE WHITE	_
et zet	Solid round winding wire, diameter (mm):		N/A
MULL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	EL WHITE WHITE WHEN W	N/A
J.2/J.3	Tests and Manufacturing	- LIER WITER WITE WA	i Wer
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	THE WITE SUITE SUITE	N/A
JEK MIT	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	iet liet aliet aliet	N/A
K.4	Interlock safeguard override	M. M. M.	N/A
K.5	Fail-safe	- TEX TEX STE STE STE	N/A



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100	EN IEC62368-	ere we we all	2. O
Clause	Requirement – Test	Result – Remark	Verdict
ale	Mr. Mr. J. Aller S.	ter with out out on	40
K.5.1	Under single fault condition	4 4 4	N/A
K.6	Mechanically operated safety interlocks	Mechanically operated safety interlocks	
K.6.1	Endurance requirement	The state of the	N/A
K.6.2	Test method and compliance:	ALTER ANLTE WALL WALL	N/A
K.7	Interlock circuit isolation	the set set	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	it white white was w	N/A
ANDER 4	In circuit connected to mains, separation distance for contact gaps (mm):	White write white wh	N/A
WELL AL	In circuit isolated from mains, separation distance for contact gaps (mm):	MULTER WHITE WHITE	N/A
TIEK MUT	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A)	and the state of	N/A
K.7.3	Endurance test	and the many was the	N/A
K.7.4	Electric strength test	A St SET S	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	At THE THE	N/A
L.2	Permanently connected equipment	The same same	N/A
L.3	Parts that remain energized	The Thirt	N/A
L.4	Single-phase equipment	in any any any	N/A
L.5	Three-phase equipment	the feet feet state of	N/A
L.6	Switches as disconnect devices	They are the m	N/A
L.7	Plugs as disconnect devices	TEK TEK JEEK MITE	N/A
L.8	Multiple power sources	Mrs. Mrs. Ang. Ang.	N/A
Life MILL	Instructional safeguard:	TEX LIE NUTE WHILE	N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	, P
M.1	General requirements	TER STEE STEE WITH SE	Р
M.2	Safety of batteries and their cells	The the tensor	P
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	P
M.3	Protection circuits for batteries provided within the equipment	WALTER WALTER WALTER	w P
M.3.1	Requirements	of the text the	CIE P
M.3.2	Test method	ing any any any	Р
MULTER	Overcharging of a rechargeable battery	(See appended table AnnexM)	Р
MALTER	Excessive discharging	(See appended table AnnexM)	P



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Clause	Requirement – Test	Result – Remark	Verdict
VILLER I	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
aret a	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	ST P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	P
M.4.1	General	LIER SLIER WILL MILE	W. 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.	TEK MA
M.4.2.1	Requirements	at the state	N/A
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure	V-0 fire enclosure used	III P
M.4.4	Drop test of equipment containing a secondary lithium battery	with the text of	P
M.4.4.2	Preparation and procedure for the drop test	While Aur Aur Au	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		WI P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	MITEP
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	III P
M.4.4.6	Compliance	at at at	P
M.5	Risk of burn due to short-circuit during carrying		√U P
M.5.1	Requirement	No bare conductive terminal used	MILIP
M.5.2	Test method and compliance	a to the state	N/A
M.6	Safeguards against short-circuits	LITER MALIE WALL WALL V	Р
M.6.1	External and internal faults	L A A	N/A



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01	EN IEC62368-		
Clause	Requirement – Test	Result – Remark	Verdict
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.	PH
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
CLIER	Calculated hydrogen generation rate	t the the title of	N/A
M.7.2	Test method and compliance	me me m	N/A
WITE N	Minimum air flow rate, Q (m³/h)	TEK TEK STEK KITER	N/A
M.7.3	Ventilation tests	me me in m	N/A
M.7.3.1	General	THE LIEF SLIEF MILE.	N/A
M.7.3.2	Ventilation test – alternative 1	M. M. M.	N/A
MULL	Hydrogen gas concentration (%)	et lifet outer while our	N/A
M.7.3.3	Ventilation test – alternative 2	The The State of t	N/A
White a	Obtained hydrogen generation rate:	ALTER MITE WALL WALL	N/A
M.7.3.4	Ventilation test – alternative 3		N/A
her also	Hydrogen gas concentration (%):	Marie Mari	N/A
M.7.4	Marking	t it	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	ALIER WILLER WALLE WAL	N/A
M.8.2	Test method	70 7 × 3+ 3	N/A
M.8.2.1	General	ALTER MALTE MALLE WALL	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		- (Et-
M.8.2.3	Correction factors	HIL WHILL MULL MULL	7107
M.8.2.4	Calculation of distance d (mm)	at the set set	5EK - 5
M.9	Preventing electrolyte spillage	in Maria Albertan Albertan	N/A
M.9.1	Protection from electrolyte spillage	- 18th 18th 15th 15	N/A
M.9.2	Tray for preventing electrolyte spillage	mer mer me in	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	WILLER WALLER WALLER	N/A
TEX ITE	Instructional safeguard:	at the title	N/A
N n	ELECTROCHEMICAL POTENTIALS	The Mur. Mur. Mur. 1	N/A
LITER	Material(s) used	of the set set of	SER TO
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
NITE .	Value of X (mm)	at let the the	" COLLEGE



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Clause	Requirement – Test	Result – Remark	Verdict

P	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS	P
P.1	General	See below	W. P
P.2	Safeguards against entry or consequences of e	entry of a foreign object	Р
P.2.1	General	RETER WITE WALL WILL S	P
P.2.2	Safeguards against entry of a foreign object		P
m.	Location and Dimensions (mm):	No opening.	701
P.2.3	Safeguards against the consequences of entry of a foreign object	to the writer while whi	N/A
P.2.3.1	Safeguard requirements	The state of	N/A
ing an	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	MULTER MULTER MULT WILL	N/A
rie mer	Transportable equipment with metalized plastic parts:	LIER WATER WATER WATER	N/A
P.2.3.2	Consequence of entry test:	et let the tiet with the	N/A
P.3	Safeguards against spillage of internal liquids	in my me	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	41. 41.	N/A
P.3.3	Spillage safeguards	LEE COUTE WITE	N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing par	rts all mile and w	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	A WILL WILL MULL AND	N/A
, Et	Conditioning, T _C (°C):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11/10 21	Duration (weeks)	mile while while whi	10/2 -
Qot 3	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	JE'P
Q.1	Limited power sources	See appended table Annex Q.1	Р
Q.1.1	Requirements	er with white with we	Р
TEX	a) Inherently limited output	a at at a	N/A
Mr. 1	b) Impedance limited output	WILL MULL MULL AND	A P
TEN	c) Regulating network limited output	it it let	N/A
10 m	d) Overcurrent protective device limited output	AUTI AUTI AUT AU	N/A
TEX SIT	e) IC current limiter complying with G.9	at left telt telt	N/A
Q.1.2	Test method and compliance:	See below	Р
MALTER	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	P
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A



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~	EN IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- 21-	Maximum autout aurrent (A)	e with his one we	N/A
- 1. C. C.	Maximum output current (A):	at the state of	N/A
$\overline{a_n}$ a	Current limiting method:	murry aut. mur any	20, —
R	LIMITED SHORT CIRCUIT TEST	1.10 1.20 1.10 1.10 1.10 1.10 1.10 1.10	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	at the title that	N/A
20.	Overcurrent protective device for test:	int my a	
R.3	Test method	t the text text is	N/A
	Cord/cable used for test:	me me me	
R.4	Compliance	TEX TEX LIER NUTE	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	ALL ALL ALL ALL	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		N/A
	Samples, material:	et let let liet .	JEK -
20,	Wall thickness (mm):	Mr. Mr. Mr. M.	_
NITE.	Conditioning (°C):	LEK TEK JEK NI	14/1/2
All A	Test flame according to IEC 60695-11-5 with conditions as set out	THE THE	N/A
120	- Material not consumed completely	a the me	N/A
SER SLIP	- Material extinguishes within 30s	The Thirt	N/A
24,	- No burning of layer or wrapping tissue	in the me me	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
2,,	Samples, material:	Mer Mr. My My	
WITE OF	Wall thickness (mm):	THE THE LITTER WITH	1000
	Conditioning (°C):	mes me me	
S.3	Flammability test for the bottom of a fire enclos	ure the state of t	N/A
S.3.1	Mounting of samples	to the same to	N/A
S.3.2	Test method and compliance	EK LIET NIET MLIET N	N/A
	Mounting of samples		ot _4
All To	Wall thickness (mm):	- SLIFE MLIFE WALFER WALFER	471
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials	THE WILL MALL MALL	N/A
3.3	of equipment with a steady state power exceeding 4 000 W	TEK TEK STEK MITEK	NITEK W
e st	Samples, material:	10 20	J+ -
White	Wall thickness (mm):	ex lifex with write w	1, 40,
1	Conditioning (°C):	74, 7, 7,	



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100	EN IEC62368-	to the the	20, 0,
Clause	Requirement – Test	Result – Remark	Verdict
Me	Mr. W. W. St. St. St. St. St. St. St. St. St. St	the with with our w	in any
T	MECHANICAL STRENGTH TESTS		Р
T.1 (General	White White Mur And	[™] P
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:	D. 711. D. 2	N/A
T.4	Steady force test, 100 N:	(See appended table T.4)	P
T.5	Steady force test, 250 N:	it with must must be	N/A
T.6	Enclosure impact test	e at at at a	N/A
	Fall test	MUTTER WATER WATER WAY	N/A
ALTER II	Swing test	let let let site	N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	Intil Po
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	TER WITER OUTER MUTEL AND	N/A
All the	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas		N/A
ULIEK MU	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U.C. SINLTE	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General A Company of the Company of		N/A
MULL	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	y protected CRTs	N/A
U.3	Protective screen		N/A
VE TO	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General	ER TER STEE OUTER	N/A
V.1.2	Surfaces and openings tested with jointed test probes	- 1th 1th 1th S	N/A
V.1.3	Openings tested with straight unjointed test probes	me me me m	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	TEK TEK TEK STER	N/A
V.1.5	Slot openings tested with wedge probe	he me in in	N/A
V.1.6	Terminals tested with rigid test wire	TEX LIER LIER WITE	N/A
V.2	Accessible part criterion	- M. 2n. 2.	N/A
X	ALTERNATIVE METHOD FOR DETERMINING CL INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
111 11 11	Clearance	WILL WILL MILL MULT	N/A



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46 0			
in m		EN IEC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	4	N/A
Y.3	Resistance to corrosion	RITER WITE WALL WA	N/A
Y.3	Resistance to corrosion	a state of	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	its while while whi	N/A
Y.3.2	Test apparatus	t aliet mile ancie	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	70 7	N/A
Y.3.4	Test procedure	KLIER WILL WILL W	N/A
Y.3.5	Compliance	an at at	N/A
Y.4	Gaskets	LIER WALTE WALL WAL	N/A
Y.4.1	General	a at at all	N/A
Y.4.2	Gasket tests	MULL MULL MULL	N/A
Y.4.3	Tensile strength and elongation tests	at at at	N/A
211. 1	Alternative test methods	Mr. Mur. Mur.	N/A
Y.4.4	Compression test	at Tet	N/A
Y.4.5	Oil resistance	2 1/2 24	N/A
Y.4.6	Securing means	de de lite all	N/A
Y.5	Protection of equipment within an outdoor enclo	osure	N/A
Y.5.1	General	t itel with with	N/A
Y.5.2	Protection from moisture	211 111 111	N/A
الا ميريانه	Relevant tests of IEC 60529 or Y.5.3	TEX STER BITES	N/A
Y.5.3	Water spray test	24. 24. 2.	N/A
Y.5.4	Protection from plants and vermin	LIER NITER WALTER WAY	N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General	ER WILLE MULLE MULL	N/A
Y.5.5.2	IP5X equipment	1 1 1	N/A
Y.5.5.3	IP6X equipment	WILL WILL MILL	N/A
Y.6	Mechanical strength of enclosures	at at at	N/A
Y.6.1	General	While Muris Muris All	N/A
Y.6.2	Impact test:		N/A



The sure of	EN IEC62368-1	TER WITE WITE W	rr an	10
Clause Requirement – Test	Mr. M. M.	Result – Remark	et d	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)	lifer write write white wh	Р
WALTER W	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	nbers in that column, except for 1:2018.	WINTER
EL WILTE	Add the following annexes: Annex ZA (normative)Normative references to interr corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	LIE WHITE WHITE WHITE WA	PU FER VINI
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following d	lefinitions:	N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa ² s. T $E = \int_{0}^{T} p(t)^{2} dt$	TEX WHITE WH	N/A



The Course	EN I	EC62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
2 2 4 0 4	cound expecting level SEI	THE WITE WITE WITE	N/A

Clause	Nequirement – rest	Nesult – Nemark	Veruici
The same	M. M. A.	MALLE WILL WILL	ne an
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	united united united on	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	tites white white with	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	et the ites	WALLER WILLER
ALTER IN	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	until unit unit v	iek wiek
3.3.19.5	digital signal level relative to full scale, dBFS	ner are are an	N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	TEX WHITEK WHITEK WHITEK	oner of oner
WALTER W	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	Whitek Whitek W	LITER WALTER
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	THE THE STIFF	N/A
10 6 1 1		Not such aquinment	- N1/A
	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:	Not such equipment	INTER WALLEY
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	Not such equipment	ITEL UNLIER WINTER WINT
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	Not such equipment	N/A N/A N/A N/A N/A N/A N/A N/A



" Mu	EN IEC62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
ne	requirements of either 10.6.2 or 10.6.2	I WILL MULL MALL W	Ver any
TEX.	requirements of either 10.6.2 or 10.6.3.	at at at .	TEX LIET .
11/2 11	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	antite white must make	
NITER WITE	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.	LIFEX WHITEX WAITER WHITE	ME EX MILE
- TEX	Listening devices sold separately shall comply with the requirements of 10.6.6.	Aug Aug au	TE LIEK
Mur 1	These requirements are valid for music or video mode only.	MULTER WALTE MALL W	of all
enverge. An	The requirements do not apply to: – professional equipment;	MILITER MILITER MILITER MILITER	er weit wh
er ler	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment.	TEX WALTER WALTER WALTER	Whitek white
White y	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music 	TEX SITEX WHITE WHITE A	ner mer
INITEK UNI TEK TE	players: • long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	white white	H WHITEK MAN
e whitek	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.	TER WHITE WHITE WILL	NITE WALTER
MULTER M	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	MUTER MUTER MUTER AND	TEX MUTER ON
strek whi Ek strek	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	LIET WHITEK WHITEK	WHILE WALL
- WITEK	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	TEX LIEX NUTER OF	rier Writer
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	THE THE THE	N/A
ing white	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 Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is	min my my	MATER WHITE THE WHITER



Š	Me	Mrs. Mar. All a	EN IEC62368-1	TEX INTEX WITE WI	rie mi	211.7.
ă.	Clause	Requirement – Test	in the man	Result – Remark	ot V	erdict

	drawn to EN 50360 and EN 50566.	39 3	ال ال
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> _{Aeq} , τ, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term <i>L</i> _{Aeq} , τ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements	Not such equipment	N/A N/A
provinces of the contract of t	may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> _{Aeq, 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.	while	TIEK WALTER WALTER WALTER WALTER WALTER WALTER
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, racoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as per 10.6.3.2.	JUNITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER	LE JANES AND THE AND T



N/A

211.	EN IEC62368-1	LIL WALL WALL WALL	211, 21,
Clause	Requirement – Test	Result – Remark	Verdic
10.6.2.3 AND THE AND	RS2 limits (to be superseded, see 10.6.3.3) 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	antifek whitek w	AND THE STREET OF THE STREET O
10.6.2.4	≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	A TEX WITER WHITER	N/A
10.6.3	Classification of devices (new)	N N	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Not such equipment	N/A
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, racoustic	JUNITER WHITER WHITER WHITER	N/A

output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN

- for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.

RS2 is a class 2 acoustic energy source that does

- for equipment provided as a package (player

10.6.3.3

50332-1.

RS2 limits (new)

not exceed the following:

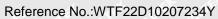


- ale	EN IEC62368-1	LIET WITE WALL WALL	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict
WILLER WILL SEE WILLER WINTER WINTER WILLER WILLE	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	antifek whitek w	AND THE MALTER OF THE MALTER O
10.6.4	Requirements for maximum sound exposure	Tr. Mr. Mr. M.	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A
10.6.4.2	Protection of persons	ALL MITTER AND	IN PUR
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	THE WALTER WALTER	THE WITH
	NOTE 1 Volume control is not considered a safeguard. 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	untitle white whitek	on stee wi
	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.	itt white whites whites	white white
	The elements of the instructional safeguard shall be as follows:	WALTER WALTER WALTER	UNLIER WALTER
	 – element 1a: the symbol (1907), IEC 60417-6044 (2011-01) – element 2: "High sound pressure" or equivalent wording 	Mitel whitek whitek wh	TER WITE ON
	 – element 3: "Hearing damage risk" or equivalent wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording 	A MULTER MULTER MULTER	White Multer
	An equipment safeguard shall prevent exposure	at let let	LIER SLIFER



	EN IEC62368-1	re all all all	20
Clause	Requirement – Test	Result – Remark	Verdict
Mr.	M. M. J. The state of	The option of the	The All
	of an ordinary person to an RS2 source without	20, 2	14 Lt
	intentional physical action from the ordinary	THE THE LIES	Will all the
	person and shall automatically return to an output	They were the	2.
	level not exceeding what is specified for an RS1		it lit
	source when the power is switched off.	TEX TEX STEE OF	Little Collection Collection
	The equipment shall provide a means to actively	in the the	
	inform the user of the increased sound level when		
	the equipment is operated with an output	the little still with	are are
	exceeding RS1. Any means used shall be	21/2 21/2 21/2	
	acknowledged by the user before activating a	A LIT TEN	THE THE
	mode of operation which allows for an output	alite white when	21/2
	exceeding RS1. The acknowledgement does not	21/2 24	
	need to be repeated more than once every 20 h of	A ST ST	THE LITE
	cumulative listening time.	alite wall wall of	6. 'n. '
	of the the tree wife was and	2 2 2	at at
	NOTE 2 Examples of means include visual or audible signals.	it it it	The Care The
	Action from the user is always needed.	I'mer wer we	211
	NOTE 3 The 20 h listening time is the accumulative listening		L
	time, independent of how often and how long the personal	It THE STEEL STEEL	WILL WILL
	music player has been switched off.	The The The	20, 2
	A skilled person shall not be unintentionally	1 4 1	LEK LEK
Wer a	exposed to RS3.	Little Willer Willer	WILL MUT
10.6.5	Requirements for dose-based systems	-W - W - W - W - W - W - W - W - W - W	N/A
10.6.5.1	General requirements	Not such equipment	N/A
	Personal music players shall give the warnings as	. 3	
	provided below when tested according to EN		
		The state of the s	
	50332-3, using the limits from this clause.	The next white while	They are
	50332-3, using the limits from this clause.	The white white	nus nu
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to	White mile whi	un' uni
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish	White white white	White white
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to	Whitek whitek whitek	MULTE WALTE
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without	white white white	White white
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to	Whitek whitek whitek	White white
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their	Whitek whitek whitek	White white
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If	White	White white was the same the s
	50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator	TEK WALTER WALTER WALTER	White whitek
	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,	TEX WHITEK WHITEK WHITEK	White white white was the same with the same
	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	THE WALTER WALTER WALTER	White White white white was a superior white whi
	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	Whitek wh	White
	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	TEX WHITE	White
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with	THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	WALTER WALTER
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the	Whitek	White
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and	Whitek wh	White
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be	THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly	Whitek wh	White
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the 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	TEK WHITEK WHITE	White
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the 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	Whitek wh	White
TEK WILLER	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the 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.	THE WALTER WALTER WALTER WALTER WALTER WALTER WALTE	N/A
TO.6.5.2	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. Dose-based warning and requirements	TER WHITER WHITE	JUNE WALLEY JUNE
MALIER WALTER WA	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the 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.	THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	THE WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER





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Clause	Requirement – Test	Result – Remark	Verdict
Maritest 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 W	WALLER WILLER
10.6.5.3	Exposure-based requirements	at let let the	N/A
Whitek wh	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 whitek whitek	intie waite
	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.	TEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK	et un tet un until tuntil
	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 WALTER WALTER	TEK BRITEK WATER
un ^{litet} w	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX TEX STEX	ILTER WALTER
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
10.6.6.1	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 and 27 mV or 100 dB and 150 mV.	Not such equipment	N/A
10.6.6.2	and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input	10 V	N/A
10.0.0.Z	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	Whitek whitek whitek	Whitek whitek



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Clause	Requirement – Test	Result – Remark	Verdict
"Me.	WI WI THE ST	all mile with	The Alle
WALTER WAL	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,7}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	antitek antitek antitek	antiek whitek
10.6.6.3	Cordless listening devices		N/A
WILLER WILLIER	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, racoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	EX WHITE WHI	MULIE WALTER MATER
10.6.6.4	Measurement method	WITE WILL WILL	N/A
NITER AND	Measurements shall be made in accordance with EN 50332-2 as applicable.	A A A	LIFEK NLIEK
3	Modification to the whole document		Р



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The man	Mr. Mr. M.	EN IEC62368-1	TEK MITEK WILLER WI	Tip Music And
Clause	Requirement – Test	With The And And And	Result – Remark	Verdict

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``	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	700
Meria.	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	20/20
LIEK W	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	C.E.Y
× 5	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	d*-
771	Table 13						-2
MALTER	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	10
ALTEK .	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	NUTE
LEK WY	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	31 E.W.
MULTE	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	£ 21/
LITE .	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
24.	Y.4.5	Note					21/2
171° N	,			AF AV		V .0V .	17.16
N	lodification	to Clause 1					
N ei		ving note: e of certain substa ent is restricted v			Mritisk Mrit	EK WILLE MIL	



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Clause	Requirement – Test	Result – Remark	Verdict

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7/10	of the state of	ALTE WITH MALE MAN	10.
4.21 WINTER WINTER WINTER WINTER WINTER WINTER WINTER WINTER WINTER WINTER WINTE	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.	Not directly connected to the mains	N/A AND THE A
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
	110 (11)	No such radiation from the	N/A
10.2.1	Add the following to c) and d) in table 39:For additional requirements, see 10.5.1.	equipment.	IVA





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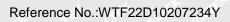
	EN IEC62368-1	rie wir wer and	
Clause	Requirement – Test	Result – Remark	Verdict
" Plan	Mr. M. V. L.	the will will all the	The Alle
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all	antiek whitek untiek	N/A
	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.	ex unifex unifex unifex	White white
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	WHITEK WHITEK WHITEK	ntier intie v
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	TER WILLER WHITER WH	TER ON TER ON!
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	Whitek Whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	it the milk with	EK MULLEK MULL
t JIEX	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	A At At	- JE AJE
9	Modification to G.7.1		N/A
G.7.1	Add the following note:	at all all	N/A
ing in	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in AnnexZD.	unite mail wat.	11. 11.
10	Modification to Bibliography		Р



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Clause	Requirement – Test	WELL MUCH THE TOP	Result – Remark	Verdict	

	M. M. T. The The The Will Make Make	20, 3
. et	Add the following notes for the standards indicated:	P-
White	IEC 80130-9 NOTE Harmonized as EN 80130-9. IEC 80269-2 NOTE Harmonized as HD 60269-2. IEC 80309-1 NOTE Harmonized as EN 80309-1. IEC 80364 NOTE some parts harmonized in HD 384/HD 80364 series. IEC 80601-2-4 NOTE Harmonized as EN 80601-2-4. IEC 80664-5 NOTE Harmonized as EN 80664-5. IEC 81032:1997 NOTE Harmonized as EN 81032:1998 (not modified). IEC 81508-1 NOTE Harmonized as EN 81558-1. IEC 81558-2-1 NOTE Harmonized as EN 81558-2-1. IEC 81558-2-4 NOTE Harmonized as EN 81558-2-6. IEC 81643-1 NOTE Harmonized as EN 81643-1. IEC 81643-311 NOTE Harmonized as EN 81643-311. IEC 81643-321 NOTE Harmonized as EN 81643-321. IEC 81643-331 NOTE Harmonized as EN 81643-331.	TEK MUTE TEK MUTEK
EX WITER	of the street of the street	-Miller
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P N
4.1.15 INTER WILLER WINLIER WINLIER	Denmark, Finland, Norwayand Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or anetwork shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatetsstikpropskaltilsluttesenstikkontakt med jordsom giver forbindelsetilstikproppensjord." In Finland: "Laite on liitettäväsuojakoskettimillavarustettuunpistorasiaan " In Norway: "Apparatetmåtilkoplesjordetstikkontakt" In Sweden: "Apparatenskallanslutas till jordatuttag"	N/A SLIF VIDE SLIFT VIDE SUBJECT VIDE SU

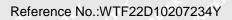




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Clause	Requirement – Test	Result – Remark	Verdict
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4.7.3	United Kingdom To the end of the subclause the following is added:	WILL MULTER MULTER MULT	N/A
ille wale	The torque test is performed using 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	tiek whitek whitek	Willey M
5.2.2.2	Denmark After the 2nd paragraph add the following:	No high touch current measured.	N/A
unliek whi	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.	while while while while	y unliter
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added:	No such external circuits.	N/A
	For separation of the telecommunication network from earth the following is applicable:	MULTER WALTER WALTER W	UL WALL
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	unifer white whi	F CLER
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	t ter	TEX N
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	TEX STEX WITH SUITER	an ante
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Milet Whilet Whilet Whilet	ex untilex on it
	 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	ie white Harret
	and of white white white	int with the title	TEXT OF
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	to write write writer.	on on
MUTIEK MU	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	MILIER WHITEK WHITEK	EK WALTER





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Clause	Requirement – Test	Result – Remark	Verdict	
Miss	THE THE THE THE	LIFE OUT WALL	are an	
MILIEK WI REFER WILLER	 A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: 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 	untited untite	TEX MILEX WALE	
whitek wh	 defined in 5.4.11; the additional testing shall be performed on all the test specimens as described in EN 60384-14; 	MALIER MALIER MALIER AN	NITE WILLER	
en viter	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.	ifet initet initet inite	t white white	
5.5.2.1	Norway	and the state of	N/A	
Mer	After the 3rd paragraph the following is added:	it outlies while while	ave ave	
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Whitek Murek Murek M	LITER WALTER O	
5.5.6	Finland, Norwayand Sweden	No such resistors.	N/A	
ret are	To the end of the subclause the following is added:	The tree to the tr	TEK ALTE	
t whitet	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	TE WILLER MULTER MULTER	With Muries	
5.6.1	Denmark	No such equipment.	N/A	
and an	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:	MITE WALLEY WALLEY WALLEY	White white	
- NALTEK	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	TER STEE WITER	NITE WALTER	
5.6.4.2.1	Ireland and United Kingdom	211. 211. 2.	N/A	
inite on	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 WHITE	our text white	



EN IEC62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		

5.6.4.2.1	France	14 10	N/A
WINLTER WILL	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.	unifek unifek unifek unifek	MULEK WI
5.6.5.1	To the second paragraph the following is added:	at let let liet w	N/A
MULTER	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm²to 1,5 mm²in cross-sectional area.	Thirty main maine marine	MUTTER
5.6.8	Norway	at at let get	Р
ine while lites while est whiles	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.	Shirter which which which we have the same of the same	itek wa itek watif
5.7.6	Denmark	701	P
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current	Whitek whitek whitek whitek	MUNITER W
F 7 C O	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	+ A+	
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	Multer multer multer multer	P
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.	TEK WHITEK	L'EX ON LEX
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or	THE WALL WALLES WALLES WA	iek vivi Prik
	similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	White white white whi	WALTER





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21,	EN IEC62368-1	the wife with the	211, 211,
Clause	Requirement – Test	Result – Remark	Verdict
Whitek Whitek	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation	Whitek	NITER WALTER MILE
	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. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparatersom er koplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkoplet utstyr – og er tilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskal det vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet."	INTER WHITE	EX ON LIEX ON
	Translation to Swedish: "Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet."	TE WALTER WALTER WALTER	WALTER WALTER
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	No external circuits.	N/A







	EN IEC62368-1		
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	Not directly connected to the mains	N/A
G.4.2	equipment, until the requirements of Annexes B.3.1 and B.4 are met Denmark To the end of the subclause the following is	Not directly connected to the mains	N/A
	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.	TEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	un are wu andrest whites whites
	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.	whitek whitek whitek whitek	TEL WILLEY
	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.	TER MITER MITER MITER	ov ^{ertek} ov
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	MUNITER MUTER MUTER MUTE	EY WALTEY

5a or DK 1-7a

Justification:

Mains socket-outlets with earth shall be in

Heavy Current Regulations, Section 6c

compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-







EN IEC62368-1				
/erdict	Requirement – Test	Clause		
,	Requirement – Test	Clause		

G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	MULL.
EX WITE	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	LITER WALTER WALTER WALTER WALTER	ex white
G.7.1	United Kingdom	LET TEX STEEL STEEL	N/A
	To the first paragraph the following is added:	Mily My Mur My	20, 1
	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	TEN WA
NLTER WY	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 WILLER WILLER	ALTER W
G.7.1	Ireland	THE THE WAY	N/A
	To the first paragraph the following is added:	in the me me	27
Whitek w	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 whitek	unites
G.7.2	Ireland and United Kingdom	1 24 20 20 20 20 20 20 20 20 20 20 20 20 20	N/A
	To the first paragraph the following is added:	ex tex tiex offer of	E WILL
	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.	WAL WALLEY WALLEY WALLEY	WALTER
ZC 🎺	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A



Р

Reference No.:WTF22D10207234Y

ZD

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EN IEC62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mr.	All the state of	THE MET WITH WAR	10.	
10.5.2	Germany	No CRT within the equipment.	N/A	
	The following requirement applies:	ALTER MITER MALTER MALTER	and .	
	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.	titek whitek whitek whitek wh	ALTEK VII EK VINLI	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Whitek whitek whitek whitek	MULIER	
TEK MALT	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	TEX MULTER WHITER MULTER	TEX W	

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)



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EN IEC62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	•	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз ₹∨4-н
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords	d	H05Z1Z1-F H05Z1Z1H2-







L. Mr.	Mr. Mr. Car	EN IEC62368-1	er all
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical e	nergy sourc	es	- L	4 14	N/A	
Supply Voltage	Location (e.g.	Test conditions		Parame	eters		ES Class	
vollage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class	
et et	TER STER OF	Normal	5.0VDC	20 - 20	SS	DC	ES3	
5VDC	Input circuit	Abnormal	July 1	LIER WILLE	11/17 - 11	hr Alle	The	
MUTEK M		Single fault – SC/OC	10 - 10	et tiet o	LIEK IN	EK "IEK		
A A	Speaker	Normal	0.617VDC	1/1 1/1	SS	DC	ES1	
4.2VDC		Abnormal:Max.n on-clipped output power	1.75VDC	WALLEY WALL	NITE OF THE SERVICE	TEK U		
	TER STER ST	Single fault – speaker SC /OC :	0	NLT WILL	71/2 ·	7. T. 201	- TEX	
21/2	11. 24. 25.	Normal	4.2VDC	TER NITE.	SS	DC	ES1	
4.2VDC	Battery	Abnormal	2/12 - 2/1		,t ,	y - 764	CEN.	
mr. m		Single fault – SC/OC	LIEP NLIE	WALTE WA	200	'W. '	12. M	

Supplementary information:

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

Test Conditions:

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

SC=

3)

5.4.1.8	TABLE: Working	ig voltage measu	rement			N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comment	S
	THE STEE	SLIEB MITE	Wer the	n - 7n		et e
- me	me m.		CENT TENT	JEK MIER.	Write Mury Aug	71/2
Supplemen	ntary information:					
11/2 11	h. On a.		of the st	ER STEEL ON	it with whi	Mr.

5.4.1.10.2 TABLE: Vicat sof	MALIL	N/A		
Method		ISO 306 / B50		_
Object/ Part No./Material	T soften	T softening (°C)		
of the the state of	in the time of the	I At	A .	et alt
Supplementary information:				
THE LIFE STEE WITH	Mrs. Mr. M. A.	- A	et set	Clark.



nu.		EN II	EC62368-1				
Clause	Requirement	- Test	Resul	t – Remark	F 3	Verdict	
5.4.1.10.3	TABLE: Ball	pressure test of thermopla	astics	- uni	it vinti unt	71/2 11/2	N/A
Allowed im	pression diame	eter (mm)	:	≤ 2 m	m Nite With	21/2 F.	_
Object/Part	No./Material	Manufacturer/trademark	Thickness	s (mm)	Test temperature (°C)		oression eter (mm)
T+ .s+	Alt St	E SLIFER WLIFE MILIE	21/2 -71		<u> </u>	÷	st di
Supplemen	tary information	n:					

E 4 2 E 4 2 TABLE, Minimum 4	Clearen	000/040		liotopoo	10° 10°	r 40.	-2/1	N/A	
5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance									
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)	
ETER MITE WHITE WHIT W	- 44			A	KEN	T. E.K.	NITE IN	الماران الماران	
Supplementary information:									
1) Only for frequency above 30 kHz Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)								2)	

5.4.4.2 TABLE: Minimum distance through insulation								
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)			
- t		TEN ITE OF	- 3	T A	- 10 A			
Supplement	ary information:							
*See also su	ub-clause 5.4.4.9	TER WITE MADE MADE	70, 20	at at	at at			

5.4.4.9	TABLE: Solid i	ABLE: Solid insulation at frequencies >30 kHz							
Insulation n	naterial	E _P	Frequency (kHz)	<i>K</i> _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)	
TER WITE	WALL WALL	alue m	"	A A	(4)	JEK NIEK	-06	. Jak	
Supplemen	tary information:								
in in	Wer aler	41 - 111.		at at	JEK J	EK NITER	NITE	anir.	

5.4.9	TABLE: Electric strength tests	, <u>s</u>	t tet tet	N/A
Test volta	age applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Function	al:- Tex Life Nite wall	me me m		t 24 3
The Mark	Mr. Mr. Mr. Col.	# JEK JIEK	THE WILL WALL	ang - an
Basic/sup	oplementary:	in 20 20 20	a at at	TEN TEN
- 2/1/2	an an at it	e tiet witer mi	E WILL MILL	mer - one
Reinforce	ed: ret street mail while while	241 251 25	- et et	TEN TEN
7/0	THE STATE OF THE S	-ITEK OLITEK MITE	-nergy mer m	1/1 /1

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- an		EN IEC62368	8-1 The man was	
Clause	Requirement – Test	aur m	Result – Remark	Verdict
2/1/2	al all a	L LET	THE LIFE WITH WALL	The The
Routine T	ests:			
The W	in the sure of	A St S	EL SUITE MUTE SUPLIFE	² 11 ₂₂ 21 ₂₂ 21
Suppleme	entary information:			
Vr. 216	10. 10. 0	e st st	LITER OUT ONLY ON	is the the
			240 241 20 2	

5.5.2.2	TABLE:	BLE: Stored discharge on capacitors							
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class			
TEK ST	TER WILL	White -whi a	Normal	SF SO	5 AP 5	it with a			
764 70 <u>-</u>	e liter	WILEY WILEY	Single fault: SC/ OC	Mrs Mur.	Mus Mus				

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						
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
THE THE	1 10.		77. 37	- 18 18		
Supplementary information:						
the test the little with the	Wry Mr. M	7 7	A St	TEN TEN		

5.7.4	TABLE	E: Unearthed accessible parts						
Location		Operating and	Supply	F	Parameters		ES class	
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)		
L/N to secondary terminals		Normal	TEX - NITE	MALIE WALL	mer our s	1 21		
		Abnormal: overload	ch self	STER OUTER OF	liek rek	TEK WIL	MILLE	
		Single fault: SC/ OC	. 74 ⁻ - 24	# .564 .5	et intret unit	ik itel	WITTER.	
Suppleme	ntary info	rmation:					,	
SC= short	circuit: C	C= open circuit		- A A	The The	. C.	wer at	

5.7.5	TABLE: Earthed acces	ABLE: Earthed accessible conductive part				
Supply volta	ge (V)	THE WITE WITE WILL	mer me	211. 20	_	
Phase(s)		[] Single Phase; [] Three F				
Power Distri	bution System	[] TN [] TT[] NT []	WILL WILL	m. m.		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt	



n in mail	My Me M	EN IEC62368-1	TEK MITEK WITER W	Wife Marie Marie
Clause	Requirement – Test	Will AME AND AND	Result – Remark	Verdict

eutral open	0.024	ES1
E	eutral open	eutral open 0.024

5.8 TABLE: Backfeed safeguard in battery backed up supplies							
Location	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
-in- in in	7 - 4	# "# J	EL WILLEY	ALTE WALTE	mr m	4/12	
Supplementary infor	mation:						
34 - 24 - 25.		L A SE	Life" of	The state of	No. Mr.	14, 14,	

6.2.2	TABLE: Power source		LIE WILL WALL ON			
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Input circui	it Pin + to -	5.0	0.267	1.335	3	PS1
Speaker	Pin + to -	4.2	0.36	1.512	3 11	PS1
Cell	Output pin + to -	3.1	3.3	10.23	/ 13	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		at left left	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
20 m	2115 211	A A	* JE# JJE*	WILL THE MA	ry Mar M
Supplemen	tary information:				
The Mark	The The	Zr. Xt	et let	THE LUTE WIT	We will

6.2.3.2 TABLE: Deter	mination of resistive PIS		N/A
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	TEX SLITER WALTER WALTE	mill mill mil	Yes (declaration)

Supplementary information:

All circuits are considered as resistive PIS; A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

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





" "In	Mr. Mr. Car	EN IEC62368-1	2112 2112
Clause	Requirement – Test	Result – Remark	Verdict

8.5.5	TABLE: High p	ressure lamp	v. m.	* * *	15	N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		icle found nd 1 m Yes / No
- 20	A A	Et JET JET	Will Mull M	21/2 21/2	-20	- "
Supplemen	tary information:	•				
Supplemen	itary information:	A AR SET	intit with with	24 24	-0"	

9.6	TABL	E: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply v	oltage (V)				,	L St	At .	18th . J	
Max. trai	nsmit pow	er of transn	nitter (W)		TENNITO	Wir.	ner in	24	_
			eiver and contact	with receiver and direct contact					ceiver and at ce of 5 mm
Foreigr	objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Lit.	- 5EF	17 ^{EX} ₍₁ 17	er Mile	Mrs.	10 10.	20			EX TEX
Supplem	entary info	ormation:							

5.4.1.4, 9.3, B.1.5, B.2.6	perature m	easurem	ents	MITERIAN	it with	AN LIEK	WALLEY WALLEY			
Supply voltage (V)		:	Condition 1: (5Vdc):	Condition 2 (4.2Vdc):	NITER	NALTER	_			
Ambient temperature durin	g test T_{amb} (°C):	40	40		,c-	_			
Maximum measured temper	Maximum measured temperature <i>T</i> of part/at:				<i>T</i> (°C)					
DC input terminal	in.	, 4	46.5	1	JEH (C)	ER WITE	Ref.			
PCB near U1			47.5	47.0	-70		130			
PCB near U2			45.8	48.4		White .	130			
PCB near U3	CLIEB INL	E. MUT	44.9	48.5		,#	130			
Surface of battery package			44.7	44.7	MILLE	mer - un	Ref.			
Internal enclosure	JEE WILLE	Mer	44.4	44.2	T	J+ X	Ref.			
W. W. W.	L *	Jet 1	Adjust to 25°	C	Write W	in me	m. m.			
Switch button	MILL	21/2	26.8	27.3	×	th 18th	Z 77 Z			
External enclosure		TEN .	27.4	28.2	110	10	77			
Temperature T of winding:	t ₁ (°C)	$R_1(\Omega)$	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulation class			
- A A A A	17 ⁶⁷ ₁₈ 17	4.	40 4	, - a		Æ	1. T.			
Supplementary information:										





v. m.	M. 24. 27.	EN IEC62368-1	THE WILL W	Vr. 200	4112
Clause	Requirement – Test	The The The	Result – Remark		Verdict

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

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 40°C.

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

Condition 1: Only charge with internal empty battery

Condition 2: Only discharge with internal fully battery.

B.2.5	S T	ABLE: Inp	out test					EX WILL MULTE MULT AND
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc ¹⁾	,ŧ	0.267	0.5	1.335	107-117	MELL	71/2	Battery charge current: 0.617A
4.2Vdc ²⁾	100	0.08	3.6	0.336	unitek v	JALTEK JEK	unitek Stekani	BT mode: 1/8 of max. non-clipped output power with 1KHz signal input. Speaker: 1.23V*1 Battery discharge current: 0.150A
4.2Vdc ¹⁾	ilig Mari	0.36	3.6	1.512	anitek	* WITE	H LIFE	BT mode: 1/8 of max. non-clipped output power with 1KHz signal input. Speaker: 1.23V*1 Battery charge current: 0.230A

Supplementary information:

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

B.3, B.4	TABLE: Abnor	mal operatin	g and fau	ılt condit	ion tests	P At At A	
Ambient ter	mperature T _{amb} (°C)			See	below —	-
Power sour	ce for EUT: Man	ufacturer, mo	del/type,	outputrati	ng:	at at at -	-
Componer No.	nt Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A	Observation)	
Speaker	100% of max. non-clipped output power	4.2Vdc ²⁾	1hrs 49mins	LIEK WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER	METER WAY TEX WALTER WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX	PCB near U3:56.2°C Surface of battery package: Ambient: 40.0°C Switch button:28.6°C External enclosure:29.9°C Ambient: 25.0°C Unit working normally. No damage, no hazard. No higher temperature rise exceeding its limit occurred. Speaker: 3.48*1 Battery discharge current(A): 0.780	





10	71 71 71	EN IEC62368-1	LIER WILLE WALLE	West and	100
Clause	Requirement – Test	All Contract of the Contract o	Result – Remark	et d	Verdict

Speaker	s-c	4.2Vdc ²⁾	10mins	77.	21 - 21	Speaker has no output.
Murit Musi	Alur.	My My	TEK.	Et.	anti Eikanti	No damage, no hazard. Recoverable.
NITEK WAITE	White W	VER MUTTER MY	TEX MUTIL	, vir	LIE WALTE	No higher temperature rise exceeding its limit occurred. Battery discharge current(A): 0.150→0.001
U1 pin 4-5	S-C	5Vdc ¹⁾	7hrs	-WVT.	THE .	Unit shut down immediately. No damage, no hazard. Recoverable.
NTC	O-C	5Vdc ¹⁾	7hrs	JEK JEK	.ur <u>ur</u> .uri	Unit shut down immediately. Repeat 3 times. No damage, no hazard. Recoverable.
C1	s-c	4.2Vdc ²⁾	7hrs	'' ''''	TEK WILLEK	Unit shut down immediately. No damage, no hazard. Recoverable.
R9	S-C	4.2Vdc ²⁾	7hrs	 WALTE	A ALTEK	Unit normally working. No damage, no hazard. Recoverable.

Supplementary information:

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

M.3	TABLE: Pr	otection circu	its for batterie	es provided w	vithin the eq	uipment	P	
Is it possible	e to install the	battery in a re	verse polarity	position?:	11/2 11/	- 20	_	
				Charg	ging			
Equipment Specification			Voltage (V)		Current (A)			
		20. 20.	5Vdc	et Jet.	LIEK WITE	0.617A	in the .	
Battery specification								
		Non-recharge	eable batteries		Rechargeable batteries			
		Discharging	Unintentional	Char	ging	Discharging	Reverse	
Manufac	turer/type	current (A)	charging current (A)	Voltage (V)	Current (A)	current (A)	charging current (A)	
Techolog	Bai Jiaying yCo.,Ltd. / 2030	WALL ALTER	MULLER MV	3.7 Juniter	0.26	0.08	iter <mark>w</mark> itter	

Note: The tests of M.3.2 are applicable only when above appropriate data is not available.

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.





in an	EN IEC62368-1								
Clause	Requirement – Test	Result – Remark	Verdict						

Specified bat	tery tempera	ature (°C)	112		-201	10	0-45
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
Battery (charge base) (U1)	SC W	Charge	7h	onliek o	0	0	Unit shutdown immediately. Recoverable. No damaged, no hazard.

Supplementary information:

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	TABLE: battery	Charging sat	feguards for	equipment c	onta	aining a se	econdary lithium	P
Maximum	specified c	charging voltag	je (V)		(4.0	WILL WALL OF	_
Maximum	specified o	charging currer	nt (A)	70	:	5		_
Highest sp	ecified cha	arging tempera	ature (°C)		S.	45	VILL AUG	
Lowest spe	ecified cha	rging tempera	ture (°C)		., :	10	et let le	
Battery		Operating		Measuremen	t		Observati	on
manufactui	rer/type	and fault condition	Charging voltage (V)	Charging current (A)		Temp.		
Lowest spe	ecified cha	rging temperat	ure: 10°C (Bat	tery (earbuds))	- 1	t lit	TEX J
Shenzhen Bai Jiaying TechologyCo.,Ltd. /		Normal	4.2	0.26	ter	Battery mperature: 10°C	The battery charging curred decreases	
602030		Abnormal-	CIER - NITE	WILL ME		24 24	- 10 10	
	ite whi	Single fault – (U1)	EX MULTEX	ALTEK WALTER	ter	Battery mperature: 10°C	The battery charging curred decreases	
Highest spe	ecified cha	rging temperat	ture: 45°C (Ba	ttery (charge b	ase)))	White Will A	b. 14
Shenzhen Bai Jiaying TechologyCo.,Ltd. /		Normal	4.20	0.282	ter	Battery mperature: 10°C	The battery charging circ	
602030	Will AL	Abnormal-		J *	+	Total Contraction	Et NIET WITE	Metro
		Single fault – (U1)	TEK WILL	and was	ter	Battery mperature: 10°C	The battery charging ci	

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





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Clause	Requirement – Test	alut. All All	Result – Remark	Verdict

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output Condition	Condition	U _{oc} (V)	Time (s)	I _{sc}	(A)	S (VA)			
	Condition			Meas.	Limit	Meas.	Limit		
Vr. Wer	24, 25, 2		cek stre	CLIFER	NITE WAL	where.	me m		
	SLIFE OLIFE SOLIE	White My		70.	at at	, et	JEK JE		
	N 20 1	st st	t Willet	WILL OW	in mi	21/20 21	111		
	LIER OLIER MALIE	Mrs. Mrs.	20,	3.	L 1	at a	EX JEX		

Supplementary Information:

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

T.2, T.3, T.4, T.5	TABLE: St	E: Steady force test					
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	
Enclosure top(T.4)	Plastics*	See table 4.1.2	الين. الجاري	100	5	Enclosure remained intact, no crack/ opening developed	
Enclosure side(T.4)	Plastics*	See table 4.1.2	mr.	100	5	Enclosure remained intact, no crack/ opening developed	
Enclosure bottom (T.4)	Plastics*	See table 4.1.2	\rightarrow \(\sigma_1 \)	100	5	Enclosure remained intact, no crack/ opening developed	

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

T.6, T.9	TABLE: Impa	ct test	N/A		
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	
er an	-10 a.	1 x x+	CIEN S	EL RETE WILL MAN MAN MAN	24
et jet	LIER WITE	WILL WILL	24. 24	a state of the state of	JEN .
7/1 1	2	+ +	JEK JIE	The Walt with the Man of	
Supplementa	ry information	1:			
*Test was pe	rformed on pr	oduct with each so	urce listed in t	able 4.1.2.	

T.7 T	ABLE: Drop	test	t liet o	LITER WILL WILL WILL WILL WILL PIN	
Location/Part Material Thickness (mm) Height Observation					
Enclosure Top	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.	
Enclosure Side	Plastics*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.	



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in an	111, 12, 1	EN IEC62368-1	in me me
Clause	Requirement – Test	Result – Remark	Verdict

Enclosure Bottom	Metal*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. No hazards.
Supplementary	y information:			
*Test was perf	ormed on pro	oduct with each sou	urce listed i	n table 4.1.2.

T.8 T.	ABLE: Stres	s relief test	L 24	THE THE STEEL AS EET PAST		
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation	
Enclosure	Enclosure Plastic* See table 4.1.2 70°C		70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.	
Supplementary	information:					
*Test was perfo	ormed on pro	duct with each sou	urce listed in t	able 4.1.2.	The The An An An	

X	TABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
At 1	(a) (b) (c)	1 11 11 11		7 A A	LEK .		
Supplement	ary information:						
at let	B'A'/	3. 70		+ +	Let Le		



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In the	EN IEC62368-1						
Clause	Requirement – Test	Result – Remark	Verdict				

4.1.2	TABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model Technical data		Standard	Mark(s) of conformity ¹ Tested with appliance		
Speaker	Interchangeable Interchangeal e		Max. 3W, 4ohm, 1Pcs	EN IEC 62368-1			
PCB	UNICE MULTI- LAYER CIRCUIT (SHENZHEN) CO	TL-2	V-0, 130°C	UL 796	UL E339347		
(Alternative)	Interchangeable	Interchangeabl e	V-0, min. 105°C	UL 796	UL W		
Plastic enclosure	Teijin Polycarbonate Singapore Pte Ltd	LN- 2250(##)(f1)	V-0, min. thickness: 3.0mm, 115°C	UL94	UL E195100		
Wooden enclosure	Interchangeable	Interchangeabl e	Min. thickness: 1.0mm	EN IEC 62368-1	Tested with appliance		
Internal wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 30AWG, VW-1	UL 758	UL		
Battery lead wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 26AWG, VW-1	UL 758	UL WALTER		
Battery	Shenzhen Bai Jiaying Techology Co., Ltd.	602030	3.7V, 300mAh, 1.1Wh	IEC 62133-2: 2017	SGS: SZES21080 0549501		

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



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Photo Documentation



Figure 1: Overview

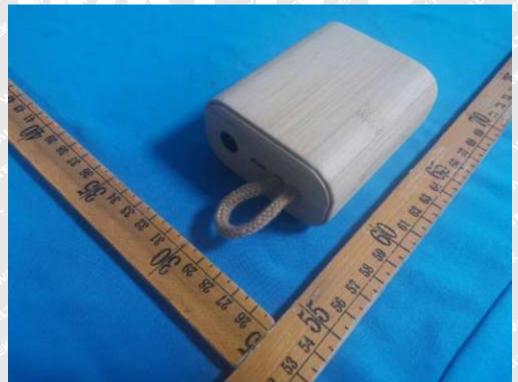


Figure 2: Side view



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Photo Documentation

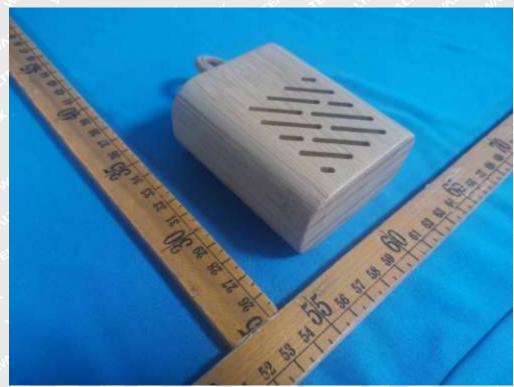


Figure 3: Side view



Figure 4: Side view



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Photo Documentation

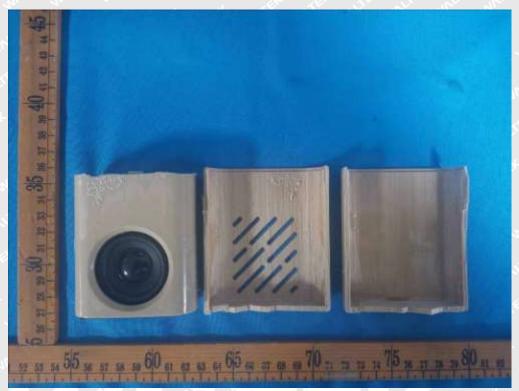


Figure 5: Internal view



Figure 6: Internal view



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Photo Documentation



Figure 7: Speaker



Figure 8: Battery



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Photo Documentation

Reference No.: WTF22D10207234Y

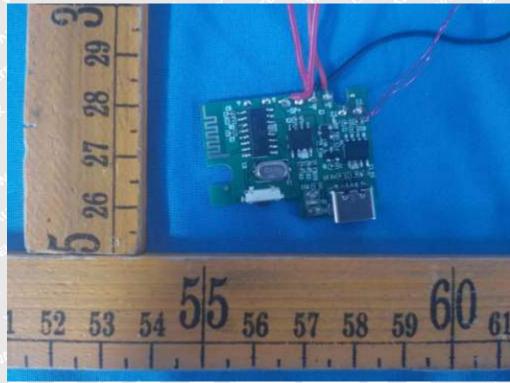


Figure 9: PCB view

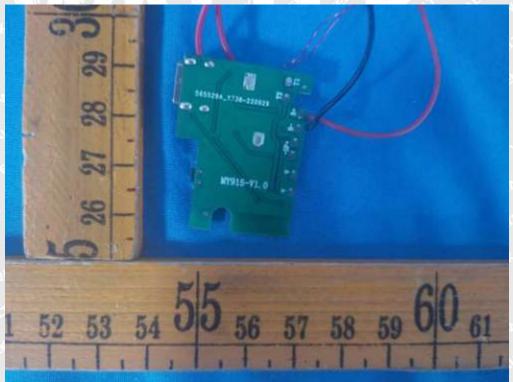


Figure 10: PCB view

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