



TEST REPORT

Reference	No	s : ,	WTF25D06171341Y

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

Hong Kong

Manufacturer.....: 111033

Address....: : --

Product...... : Apple Find My luggage tag, Smart Apple Find My PU wallet

Model(s)..... : MO2599, MO2697

Total pages : 67 pages and 4 pages of photo.

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

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2025-07-03

Date of Test...... : 2025-07-03 to 2025-07-16

Date of Issue..... : 2025-07-22

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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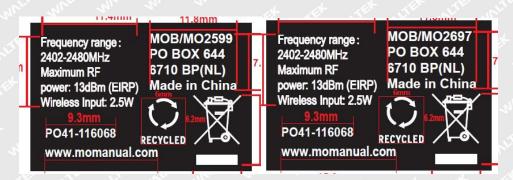
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	AL 05	
Test item description:	Apple Find M	y luggage tag, Smart Apple Find My PU wallet
Trademark	MOB	
Model and/or type reference	MO2599, MC	2697
Rating(s):	Wireless Inpu	
Remark:	all all	
Whether parts of tests for the product h	ave been sub	contracted to other labs:
☐ Yes ⊠ No		
If Yes, list the related test items and lab Test items:	information:	
Lab information:		LEK TEK LIFEK MITER MITER SIMIT SHALL S
Summary of testing:	WITE WA	we we are
Tests performed (name of test and to	est clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020		No. 77, Houjie Section, Guantai Road,
- The submitted samples were found to		Houjie Town, Dongguan City, Guangdong, China
the requirements of above specification	LEX CLIER	with my my my my my
Summary of compliance with Nation	al Difference	(List of countries addressed):
Summary of compliance with Nation	ai Dillerences	s (List of countries addressed):
EU Group Differences		
Lo Group Billorollogo		
The product fulfils the requirements	of EN IEC 623	368-1:2020+A11:2020.
E STATE	Le STER	LIFE WELL WELL AND
Use of uncertainty of measurement	for decisions	on 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 nple acceptance" decision rule, previously known as
Other: (to be specified, for examp requirements apply)	le when requir	red by the standard or client, or if national accreditation
Information on uncertainty of measu	rement:	
The uncertainties of measurement are	calculated by	the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of
IEC Guide 115 provides guidance on the decision rule when reporting tes	st results with	n of measurement uncertainty principles and applying in IECEE scheme, noting that the reporting of the necessary unless required by the test standard or
Calculations leading to the reported va	alues are on fi	le with the NCB and testing laboratory that conducted









Remark:

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



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TEST ITEM PARTICULARS:	Will all all all all all all all all all
Product group	
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	☐ UK: 13 A; Others: 16 A;Location: ☐ building ☐ equipment☒ N/A
Equipment mobility:	⊠ movable
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⋈ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location:	N/A ☐ restricted access area☐ outdoor location ☐
Pollution degree (PD):	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°C Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems	☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.087kg



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POSSIBLE TEST CASE VERDICTS:	the man and any and
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	And Any Any
Date of receipt of test item:	See covers page.
Date (s) of performance of tests:	See covers page.
GENERAL REMARKS:	LIFE NITE WILL WALL WALL WALL WALL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to t Throughout this report a □ comma / ⋈ point is u	he report.
GENERAL PRODUCT INFORMATION:	t itel alter alter wall wall wall and
Product Description 1. The EUT covered by this report is a Apple Find My Initial information apparatus. 2. The manufacturer specified maximum ambient temp including 2000 m above sea level. 3. The all electronic components are mounted on PWB ultrasonic welding, all circuits complied with ES1 and	erature is 25°C. The specified altitude is up to and and housed in a plastic enclosure which is secured by
Model Differences All models have the same circuit diagram and PCB layer	out, same material of enclosure.
Additional application considerations – (Considerations – (Considerations – N/A	rations used to test a component or sub-



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Clause	Possible Hazard			
;	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 output	Ordinary	N/A	N/A	N/A
3	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS1	Battery circuits	Equipment safeguard (e.g., no ignition occurs)	N/A	N/A
PS1 WALTER WALTER WALTER	All circuits	Equipment safeguard (e.g., no ignition occurs)	N/A	N/A
7	Injury caused by hazardou	s substances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	N/A N/A	R
N/A w w w	N/A	N/A	N/A	N/A
3	Mechanically-caused injury	/		
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
)	Thermal burn			
Class and Energy Source	Body Part	Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
ΓS1: 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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Unite Maria	The river river in	EN IEC 62368-	LIET MITER WALLER	Marie Marie Mari
Clause	Requirement – Test	C. M. M. M.	Result – Remark	Verdict

	The same of the sa	THE THE THE WAY	11,00
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	Р
4.1.2 miles	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	undi Pun Etek undi Ek undi Ek
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	THE THE STATE OF	N/A
4.4.3.3	Drop tests	L Mr. Mr. Mr.	Р
4.4.3.4	Impact tests	of the liter niterani	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
ris wer	Glass impact test (1J)	LIER WITER WITE MILIE	N/A
# _E#	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	WIET WITE WILL WILL WI	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	We all and	P
4.5.1	General White white white will be a second to the second t	No explosion occurs during normal/abnormal operation and single fault conditions	P
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	√n P



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Clause	Requirement – Test	Result – Remark	Verdict

<i>*</i>	condition	10 10	L 2+
Write W	No harm by explosion during single fault conditions	(See Clause B.4)	W.b
4.6	Fixing of conductors	See below	N/A
4	Fix conductors not to defeat a safeguard	ing my my	N/A
er antie	Compliance is checked by test	SET STEP STEP STEP OF	N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	111 111 111 11	N/A
4.8	Equipment containing coin/button cell batteries	S THE STEET WITE WALTE	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	1 211 211 21	N/A
4.8.3	Battery compartment door/cover construction	LEK LIEK ALTER OLIFE MY	N/A
<i>*</i>	Open torque test	The sail sail	N/A
4.8.4.2	Stress relief test	LIER NITER WITE WALL	N/A
4.8.4.3	Battery replacement test	The state of the s	N/A
4.8.4.4	Drop test	JANE MALIE	N/A
4.8.4.5	Impact test	- 1 tt	N/A
4.8.4.6	Crush test	LIE WITE WILL WILL OF	N/A
4.8.5	Compliance	and the state of	N/A
Me	30N force test with test probe	White white white was	N/A
TEK	20N force test with test hook	the state of	N/A
4.9	Likelihood of fire or shock due to entry of cond	ductive object	Р
4.10	Component requirements	at at all out	N/A
4.10.1	Disconnect Device	WELL MULL MULL MILL	N/A
4.10.2	Switches and relays	at at all the	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy	Classification and limits of electrical energy sources	
5.2.2	ES1, ES2 and ES3 limits	at at at the top	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	LEN TEN TEN STEEL STEEL STEEL	N/A



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	EN IEC 62368-	the wife when whi .	
Clause	Requirement – Test	Result – Remark	Verdict
5.3	Protection against electrical energy sources	the state of the s	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	White white white white	JI P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TER LIER ALTER ALTER	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	of the text start	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
J+	Accessibility to outdoor equipment bare parts	W W	N/A
5.3.2.2	Contact requirements	SLIER WILL WILL MILL	N/A
alt de	Test with test probe from Annex V	an an at left	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIFE WALL WALL WALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	e at at at	N/A
5.3.2.3	Compliance	e unit mi mi m	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	MULL MULL MULL MULL	Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	2 24 24	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	e at at let	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	MILL MALL MALL MA	N/A
5.4.1.5.3	Thermal cycling test	COLIFER MALL MALL WALL	N/A
5.4.1.6	Insulation in transformers with varying dimensions	a st set set	N/A
5.4.1.7	Insulation in circuits generating starting pulses	RITE WILL WILL WILL	N/A
5.4.1.8	Determination of working voltage	1 1 st st	N/A

5.3	Protection against electrical energy sources	11 12	P+
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	White white while when	JIP P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TEX TEX NITER WITER	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	or our out of the	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	EX WALTE
d-	Accessibility to outdoor equipment bare parts	An A Ch	N/A
5.3.2.2	Contact requirements	SLIER WILL MALLE WALLE	N/A
it it	Test with test probe from Annex V	an a to the	
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIET WILL WALL WALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	1 to the set	N/A
5.3.2.3	Compliance	E WILL MULL MAN MA	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	MULT MILL MILL MILL	, P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	2 44 44	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)	ALTE PAN
5.4.1.5	Pollution degrees	e state state of	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	mer mer me m	N/A
5.4.1.5.3	Thermal cycling test	CLIER WILL WALL WALL	N/A
5.4.1.6	Insulation in transformers with varying dimensions	and the set	N/A
5.4.1.7	Insulation in circuits generating starting pulses	NITE WALL WALL WALL	N/A
5.4.1.8	Determination of working voltage	s at at at	N/A
5.4.1.9	Insulating surfaces	in with mit me m	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	- NITER WILLER WILLER	N/A
5.4.1.10.2	Vicat test	The state of the	N/A
5.4.1.10.3	Ball pressure test	COLIFE WALL WALL WALL	N/A
5.4.2	Clearances		N/A
5.4.2.1	General requirements	LIE WHIL MILL MILL A	N/A
MULTER	Clearances in circuits connected to AC Mains, Alternative method	et nifet mifet skrifet sun	N/A
5.4.2.2	Procedure 1 for determining clearance	70, 2, 7	N/A
ares ar	Temporary overvoltage	ALTER OLITE MALTE MALTY	_



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Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	The Act of	N/A
5.4.2.3.2.2		TER LIER ALIER	White -
5.4.2.3.2.3		any any any	,t _
5.4.2.3.2.4		LIFE ALTER WALTER	Λ ²
5.4.2.3.2.5	Transient voltage determined by measurement	12 11 2 2	<u></u>
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	THE WALLE WAS	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	MUNITER MULITER WALTE	N/A
5.4.2.6	Clearance measurement	TER STER WITE	N/A
5.4.3	Creepage distances	211. 211. 21.	N/A
5.4.3.1	General	LIER SLIER WIFE AND	N/A
5.4.3.3	Material group	70	<i>x</i> –
5.4.3.4	Creepage distances measurement	EL MITE WALLE WAL	N/A
5.4.4	Solid insulation	** * * * **	N/A
5.4.4.1	General requirements	WILL MULLE MULL	N/A
5.4.4.2	Minimum distance through insulation	The state of the s	N/A
5.4.4.3	Insulating compound forming solid insulation	and the same of	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints	in mer mer m	N/A
5.4.4.6	Thin sheet material	the test that the	N/A
5.4.4.6.1	General requirements	Mr. Mr. M.	N/A
5.4.4.6.2	Separable thin sheet material	THE LITTE STEET	N/A
	Number of layers (pcs)	me me	N/A
5.4.4.6.3	Non-separable thin sheet material	TEX TIEX OLIER OF	N/A
+ 2+	Number of layers (pcs)	1. 24. 2. 2.	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	EX MALTER WALTER WAL	N/A
5.4.4.6.5	Mandrel test	- TEX STEX STE	N/A
5.4.4.7	Solid insulation in wound components	Mr. Mr. Mr.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	WALTER WALTER WALTER	N/A
IEK WYLLE	Alternative by electric strength test, tested voltage (V), K _R	LIEF WILEY WALLEY WA	N/A
5.4.5	Antenna terminal insulation	a a at at	+ N/A
5.4.5.1	General	WALL MALL WALL	N/A
5.4.5.2	Voltage surge test	L A A	N/A



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01	EN IEC 62368-	71, 72, 72	N/
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.3	Insulation resistance (MΩ)	ALL AIR III	N/A
Mer. M	Electric strength test	ALTER WALTER WALTER	""N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	TEX LIEX NUTER	N/A
5.4.7	Tests for semiconductor components and for cemented joints	of the text	N/A
5.4.8	Humidity conditioning	in my my	N/A
WALTER OF	Relative humidity (%), temperature (°C), duration (h)	t whitek whitek white	AMIT -
5.4.9	Electric strength test	at at the	N/A
5.4.9.1	Test procedure for type test of solid insulation	white and me	N/A
5.4.9.2	Test procedure for routine test	at let let	N/A
5.4.10	Safeguards against transient voltages from external circuits	t it ist i	N/A
5.4.10.1	Parts and circuits separated from external circuits	e unit with whi	N/A
5.4.10.2	Test methods	the state of	N/A
5.4.10.2.1	General	WALL MALL MAL	N/A
5.4.10.2.2	Impulse test	at the	N/A
5.4.10.2.3	Steady-state test	- 1 m	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TE WHITE WHITE WA	N/A
5.4.11	Separation between external circuits and earth	e at at a	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	white mir me	N/A
5.4.11.2	Requirements	MITE WALLE WALLE	N/A
	SPDs bridge separation between external circuit and earth	TER STEE STEEL	N/A
	Rated operating voltage U _{op} (V)	L W W	,t -
MULL	Nominal voltage U _{peak} (V)	IEK WITER WITE WAL	_ nr _
, et	Max increase due to variation ΔU _{sp}	The state of	s
21/2 21	Max increase due to ageing ΔU _{sa}	White White White	nu -
5.4.11.3	Test method and compliance	A st set	N/A
5.4.12	Insulating liquid	WILL WILL WILL	N/A
5.4.12.1	General requirements	at the left	N/A
5.4.12.2	Electric strength of an insulating liquid	rice and any	N/A
5.4.12.3	Compatibility of an insulating liquid	at let let il	N/A
5.4.12.4	Container for insulating liquid	Mur. Mr. M.	N/A
5.5	Components as safeguards	- lit lit lit	N/A



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Clause	Requirement – Test	Result – Remark	Verdict		
5.5.1	General	No such components as safeguards.	N/A		
5.5.2	Capacitors and RC units	any any any	N/A		
5.5.2.1	General requirement	TEX TEX NITER MIT	N/A		
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	of the text step	N/A		
5.5.3	Transformers	in mr. mr. m.	N/A		
5.5.4	Optocouplers	t let the little	N/A		
5.5.5	Relays	The Me Me	N/A		
5.5.6	Resistors	TEX LIET OLITER IN	N/A		
5.5.7	SPDs	me me m	N/A		
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIER WHITER WHITER WHITE	N/A		
5.5.9	Safeguards for socket-outlets in outdoor equipment	let unifek whitek whitek	N/A		
JEX	RCD rated residual operating current (mA)	A AT AT	<u> </u>		
5.6	Protective conductor	WELL MUT MUT M	N/A		
5.6.2	Requirement for protective conductors	at the st	N/A		
5.6.2.1	General requirements	Class III equipment	N/A		
5.6.2.2	Colour of insulation	THE THE LITTE STIFF	N/A		
5.6.3	Requirement for protective earthing conductors	es me me m	N/A		
MILTER	Protective earthing conductor size (mm²)	et the tiet while.			
SLIEK I	Protective earthing conductor serving as a reinforced safeguard	the the that	N/A		
164 7	Protective earthing conductor serving as a double safeguard	and with any and	N/A		
5.6.4	Requirements for protective bonding conductors	RITE WALTE WALT WAL	N/A		
5.6.4.1	Protective bonding conductors	a st set set	N/A		
an.	Protective bonding conductor size (mm²)	The Mary Mary	2 ₀		
5.6.4.2	Protective current rating (A)	- At let let	N/A		
5.6.5	Terminals for protective conductors	Mer Mer Mer A	N/A		
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	UNLIES WALTES WALTES WAL	N/A		
TEX WALTE	Terminal size for connecting protective bonding conductors (mm)	TEL NIEK WIEK WAITE	N/A		
5.6.5.2	Corrosion	70 A X	N/A		
5.6.6	Resistance of the protective bonding system	er with antier antier	N/A		
5.6.6.1	Requirements	1 x x x	N/A		
5.6.6.2	Test Method	NITE MITE WILL AND	N/A		



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Clause	Requirement – Test	Result – Remark	Verdict	
- 000	The state of the state of	Ex WILL MULL MAY M	700	
5.6.6.3	Resistance (Ω) or voltage drop		N/A	
5.6.7	Reliable connection of a protective earthing conductor	MULLE MILL MULL MULL	N/A	
5.6.8	Functional earthing	STER STER STEEL STATES	N/A	
st si	Conductor size (mm²)	W. M. W.	N/A	
WALL	Class II with functional earthing marking	TER STEEL WITER WALTER S	N/A	
- 104	Appliance inlet cl &cr (mm)	W W	N/A	
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A	
5.7.2	Measuring devices and networks	100 L 14 /6	N/A	
5.7.2.1	Measurement of touch current	CLIFE WALL WALL WALL	N/A	
5.7.2.2	Measurement of voltage	in the contraction	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	Life White white white	N/A	
5.7.4	Unearthed accessible parts	EX WIFE WIFE WIFE W	N/A	
5.7.5	Earthed accessible conductive parts	70 7	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	White muite mut mu	N/A	
NITE WA	Protective conductor current (mA)	At MARKET MITE	N/A	
st si	Instructional Safeguard	7 1 1 1	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	TE WHITE WALLS WHITE	N/A	
5.7.7.1	Touch current from coaxial cables	A TEX STEX STEEL OF	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	and the text of	N/A	
5.7.8	Summation of touch currents from external circuits	mer we we will	N/A	
74 - 74 22 - 741-5	a) Equipment connected to earthed external circuits, current (mA)	NIE WALL MAIL WALL	N/A	
MULL	b) Equipment connected to unearthed external circuits, current (mA)	EX WALLEY WALLE WALLE A	N/A	
5.8	Backfeed safeguard in battery backed up supplies		N/A	
30	Mains terminal ES	The Mr. Mr. M.	N/A	
CLIFE IN	Air gap (mm)	Let LET JET JE	N/A	

	6	ELECTRICALLY- CAUSED FIRE	
300	6.2	Classification of PS and PIS	Р



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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.	N/A	
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A	
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A	
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P	
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3) Enclosure passed the Glow-Wire test at 550 °C according to IEC 60695-2-11	TEK JINE	
at .	Combustible materials outside fire enclosure	No such parts	N/A	
6.4	Safeguards against fire under single fault condi	tions	n P	
6.4.1	Safeguard method	Control fire spread	P	
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	Liter White Muli whi h	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	White white white wh	N/A	
6.4.3.1	Supplementary safeguards	. The The The Wife	N/A	
6.4.3.2	Single Fault Conditions	Mur. Mr. Mr. M. M.	N/A	
المالية المالية	Special conditions for temperature limited by fuse	TEX LIES NITES INTER	N/A	
6.4.4	Control of fire spread in PS1 circuits	in my min m	Р	
6.4.5	Control of fire spread in PS2 circuits	LEK STEK STEE STATE ON	N/A	
6.4.5.2	Supplementary safeguards	24, 25, 2	N/A	
6.4.6	Control of fire spread in PS3 circuits	LIFE WITE WITE WITE	N/A	
6.4.7	Separation of combustible materials from a PIS	10 The second	N/A	
6.4.7.2	Separation by distance	WITE WILL WALL MALL	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	LIE WALL WALL WALL V	N/A	
6.4.8.2	Fire enclosure and fire barrier material properties	1 1 1 1 1 1 1	N/A	
6.4.8.2.1	Requirements for a fire barrier	LE MUTTE MUTTE MUTE AND	N/A	
6.4.8.2.2	Requirements for a fire enclosure	1 1 1 1 1	N/A	



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Clause	Deguirement Teet	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	the text text	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	Wer Mr. M.	N/A
6.4.8.3.2	Fire barrier dimensions	TEX SEX STEEL OF	N/A
6.4.8.3.3	Top openings and properties	in the sail in	N/A
WILL	Openings dimensions (mm)	EK STEK STEK WIT	N/A
6.4.8.3.4	Bottom openings and properties	24	N/A
Mury 1	Openings dimensions (mm)	CLIEB WITE WILL	N/A
WILLER WA	Flammability tests for the bottom of a fire enclosure	TEX LIEX SLIEK	N/A
+ 4	Instructional Safeguard	No. The Tay of	N/A
6.4.8.3.5	Side openings and properties	TEX SITER NITER OF	N/A
<u></u>	Openings dimensions (mm)	211 211	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	White white white	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	UNLIEK WALTER WALTER	N/A
6.4.9	Flammability of insulating liquid	A LET	N/A
6.5	Internal and external wiring	2 21/2 21	N/A
6.5.1	General requirements		N/A
6.5.2	Requirements for interconnection to building wiring	Mer we will	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets	MULT WILL WALL	N/A
6.6	Safeguards against fire due to the connection to add	itional equipment	N/A
7	INJURY CAUSED BY HAZARDOUS SUBSTANCE	antite anti-anti-	III. III.
7.2	Reduction of exposure to hazardous substances		N/A
7.3	Ozone exposure	- W. W. W.	A N/A
7.4	Use of personal safeguards or personal protective	ve equipment (PPE)	N/A
(Ele	Personal safeguards and instructions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7.5	Use of instructional safeguards and instructions	JALIER WALTE WATE	N/A
Clerk .	Instructional safeguard (ISO 7010)	at at at	(E)
7.6	Batteries and their protection circuits	With Mile Mile	Р
76t - 176	THE MET WAT THE TANK THE	at at at .	det stet i
8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	t et jet je	P.
8.3	Safeguards against mechanical energy sources	Mur. Mur. Mr.	Р
8.4	Safeguards against parts with sharp edges and co	orners	P



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Clause	Requirement – Test	Result – Remark	Verdict
21/2 1	W W W W W	EL WILL WILL AND AND	211
8.4.1	Safeguards		t Put
mr. m	Instructional Safeguard:	MS1: Edges and corners of enclosure	w.b
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	WALL P
8.5	Safeguards against moving parts	at all the title	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
21/2 - 21/	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
بالارتيان	Moving MS3 parts only accessible to skilled person	LITER MITER WALTE	N/A
8.5.2	Instructional safeguard	24 24 St	N/A
8.5.4	Special categories of equipment containing moving parts	THE MULLE MULL WILL	N/A
8.5.4.1	General	ex lifex niter writer ou	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	141, 14, 14, 14, 14, 14, 14, 14, 14, 14,	N/A
8.5.4.2.1	Protection of persons in the work cell	ALTER MITE WALTER WALTE	N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system	" MULT WALL	N/A
8.5.4.2.2.2	Visual indicator	the state	N/A
8.5.4.2.3	Emergency stop system	ite white was along a	N/A
WALTER	Maximum stopping distance from the point of activation (m)	A CHIEF WHITE WALTER WA	N/A
NALIEK WA	Space between end point and nearest fixed mechanical part (mm)	itet nitet mitet anit	N/A
8.5.4.2.4	Endurance requirements	an an a	N/A
ILL WALL	Mechanical system subjected to 100 000 cycles of operation	NITER WALTER WALTE WALTE	N/A
I WALTE	- Mechanical function check and visual inspection	EX LIEX SLIEX INLIER OF	N/A
J.	- Cable assembly:	14. 14. 2.	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	WHITE WHITE WHITE WHI	N/A
8.5.4.3.1	Equipment safeguards	THE LIER WITER WITER	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	m. m. m. m.	N/A
8.5.4.3.3	Disconnection from the supply	TEX SITER OUTER MITE	N/A
8.5.4.3.4	Cut type and test force (N):	20 20 x	N/A
8.5.4.3.5	Compliance	ex niter write write wr	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
and an	Explosion test	ALTER MALE MALE MALE	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
ahrin	THE THE STATE OF	Et NITE WITE WHITE	Vice and
8.5.5.3	Glass particles dimensions (mm)	70 20	N/A
8.6	Stability of equipment	LIER WILL WHILL WAS	N/A
8.6.1	General	MS1: Mass of the unit	N/A
10 m	Instructional safeguard:	Will AVILL AVILLE AND	N/A
8.6.2	Static stability	at let let let	N/A
8.6.2.2	Static stability test	in Auto Auto Au	N/A
8.6.2.3	Downward force test	t let like like i	N/A
8.6.3	Relocation stability	Mur. Mr. Mr. M.	N/A
Willey W	Wheels diameter (mm):	TEK STEK STEK OUT	<u> </u>
	Tilt test	The The The	N/A
8.6.4	Glass slide test	LIER ALTER WITER WAITE	N/A
8.6.5	Horizontal force test:	211, 21, 2	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	Will Mill Mill And	N/A
TEX .	Test 1, additional downwards force (N)		N/A
15. 70.	Test 2, number of attachment points and test force (N)	a luci m	N/A
r wint	Test 3 Nominal diameter (mm) and applied torque (Nm)	TE WHITE WALL WALL	N/A
8.8	Handles strength	EX STEX SLIER WITER N	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	LITER OUTER ONLIES ONL	N/A
	Number of handles:	211, 21, 2	_
	Force applied (N)	ALTER WALTER WALTE WALTE	mr. —r
8.9	Wheels or casters attachment requirements	and the second	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	e st st st	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	WILL MULLE MULL MULL	N/A
8.10.3	Cart, stand or carrier loading test		N/A
Me	Loading force applied (N):	LIET MALTE WALL WALL	N/A
8.10.4	Cart, stand or carrier impact test	a at at at	N/A
8.10.5	Mechanical stability	MULL MULL MULL A	N/A
A COL	Force applied (N):	at at at	(6) <u>(4)</u>



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Clause	Requirement – Test	Result – Remark	Verdict	
2/L	THE THE THE	THE STIP MILE MALE	The Me	
8.10.6	Thermoplastic temperature stability	24. 24. 2.	N/A	
8.11	Mounting means for slide-rail mounted eq	uipment (SRME)	N/A	
8.11.1	General	No such parts	N/A	
8.11.2	Requirements for slide rails	TEX WITE WHITE WHITE W	N/A	
Et JE	Instructional Safeguard	i	N/A	
8.11.3	Mechanical strength test	The Watt Mari Mari	N/A	
8.11.3.1	Downward force test, force (N) applied	: L Let Let	N/A	
8.11.3.2	Lateral push force test	white with with white	N/A	
8.11.3.3	Integrity of slide rail end stops	at let let let	N/A	
8.11.4	Compliance	VILL MUT MUT MUT	N/A	
8.12	Telescoping or rod antennas	et set set siet o	N/A	
	Button/ball diameter (mm)	: No such parts	_	

9	THERMAL BURN INJURY Thermal energy source classifications Touch temperature limits		Р
9.2			Р
9.3			Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	WITP V
9.3.2	Test method and compliance	See B.1.6 & B.2.3	of P
9.4	Safeguards against thermal energy sources	s with the the the	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
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitte	ers the street with the	N/A
9.6.1	General	The state of the s	N/A
9.6.2	Specification of the foreign objects	ALTE THE MILE WALL WALL WALL	N/A
9.6.3	Test method and compliance	:	N/A

10	RADIATION		P .
10.2	Radiation energy source classification		P. P.
10.2.1	General classification	See below	OF PART
2000	Lasers	et with white white wh	_
NALTEK NI	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low	_



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<u> </u>						
W. aw		EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict			

- 4	of the the the wife was and	power application.	
الار ياران	Image projectors:	THE LIFE SLIFE MITT	_
.4	X-Ray:	711 711 111 11 11 11 11 11 11 11 11 11 1	
أثني المالية	Personal music player	ITER SITES MITTER MALTER	
10.3	Safeguards against laser radiation	The tile in the	N/A
Murit	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	ΝP
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	WALL A
LIEK WALT	Instructional safeguard provided for accessible radiation level needs to exceed	Liter mitter uniter uniter	N/A
y TEX	Risk group marking and location	the state of	N/A
Miles	Information for safe operation and installation	ET WILL MULT WILL WA	N/A
10.4.2	Requirements for enclosures	A A A A	N/A
41, 2	UV radiation exposure	White white Auth Auth	N/A
10.4.3	Instructional safeguard	A THE THE	N/A
10.5	Safeguards against X-radiation	2 July July	N/A
10.5.1	Requirements	No X-radiation	N/A
20.	Instructional safeguard for skilled persons	is me me in a	_
10.5.3	Maximum radiation (pA/kg)	y let let liter of	_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	211 111 111	N/A
CLE MALL	Acoustic output L _{Aeq,T} , dB(A):	TEX SITES INTER MITE	N/A
* 4	Unweighted RMS output voltage (mV):	70	N/A
Me	Digital output signal (dBFS)	IEK OLITER WILLE WHILE WE	N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements	nite white white whi	N/A
10.6.3.2	Dose-based warning and automatic decrease	a st set set	N/A
10.6.3.3	Exposure-based warning and requirements	WILL MULL MULL MULL	N/A
SEX SE	30 s integrated exposure level (MEL30)	at at at let	N/A
271	Warning for MEL ≥ 100 dB(A)	The Mary Mary Aug 1	N/A
10.6.4	Measurement methods	at the tite tite.	N/A
10.6.5	Protection of persons	mi mi me m	N/A
C. C.	Instructional safeguards	of at alt do	N/A



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Clause	Requirement – Test	Result – Remark	Verdict		
The same	an an a let o	THE STEP WITH WILL	are an		
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	t ret tret after	N/A		
10.6.6.1	Corded listening devices with analogue input	Mr. Mr. M.	N/A		
rite wri	Listening device input voltage (mV)	TEX LIEX NITER	N/A		
10.6.6.2	Corded listening devices with digital input	in in in	N/A		
in white	Max. acoustic output L _{Aeq,T} , dB(A):	THE STEEL STEEL STEEL STEEL	N/A		
10.6.6.3	Cordless listening devices	14 14	N/A		
MALA	Max. acoustic output L _{Aeq,T} , dB(A):	Et LIER WITE WITE	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABO CONDITION TESTS AND SINGLE FAULT COND		UNI P
B.1	General Control of the Control of th		JUP P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	et tet tet stet stet	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
211 A	Audio Amplifiers and equipment with audio amplifiers	white must and an	N/A
B.2.3	Supply voltage and tolerances	See pages 2 rating.	olo P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	LIFE WALL WALL WALL OF	Р
B.3.1	General	(See appended table B.3)	P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
JEK .	Instructional safeguard	at all the off	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)	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	Mr. Mr. M.	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	P
B.4	Simulated single fault conditions	it let the the	ψP
B.4.1	General	mer mer me m	Р
B.4.2	Temperature controlling device	THE THE THE STEE	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р



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Clause	Requirement – Test	Result – Remark	Verdict
2/12		Contraction of the state of	70
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	et Per
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	MITE P.
B.4.9	Battery charging and discharging under single fault conditions	See annex M	TEX PI
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV ra	Protection of materials in equipment from UV radiation	
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	LIE OLIV MET MALL	N/A
C.2.1	Test apparatus:	7 × 3	N/A
C.2.2	Mounting of test samples	MITTER MALTER WALL WA	N/A
C.2.3	Carbon-arc light-exposure test	a start of	N/A
C.2.4	Xenon-arc light-exposure test	WILL MULL MULL AND	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	WELL MUEL MUL MUL	N/A
D.2	Antenna interface test generator	at let net tet	N/A
D.3	Electronic pulse generator	The Mary Mary Mary A	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio signals		N/A
WILLER OF	Maximum non-clipped output power (W):	TEK TEK JEK STE	_
	Rated load impedance (Ω):	me me me m	_
TENNET	Open-circuit output voltage (V)	TEX LIEX WIFE MITE	_
t st	Instructional safeguard:	11/2 11/1 10/1	_
E.2	Audio amplifier normal operating conditions	ith nitet united united w	N/A
at the	Audio signal source type:	20 x x	ė —
11 11 11 11 11 11 11 11 11 11 11 11 11	Audio output power (W)	LIFE NITE MITE MITE MI	



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Nesuit - Nemaik	Verdict
- At	Audio output voltage (V):	With the same and	_
Mrs. M	Rated load impedance (Ω)	RUTER MITE WILL WALL	
at 1	Requirements for temperature measurement	The state of the	N/A
E.3	Audio amplifier abnormal operating conditions	ALTE WALTE WALT WALT	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	TEX P
F.1	General	<i>n</i> , <i>n</i>	e⊬ P.e
MUC. 1	Language	English	_
F.2	Letter symbols and graphical symbols	and the second	P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	WITEL
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.	TEX WIT
F.3	Equipment markings	t TEX STEX STEEL WITH	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P
F.3.2	Equipment identification markings	See below for details.	PIL PIL
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below for details.	P.
F.3.3.1	Equipment with direct connection to mains	RUTER MUTE WALL WALL	N/A
F.3.3.2	Equipment without direct connection to mains	a de late late	P
F.3.3.3	Nature of the supply voltage:	NITE WALL WALL WALL	N/A
F.3.3.4	Rated voltage	at the fifth of the	N/A
F.3.3.5	Rated frequency	it was made made an	N/A
F.3.3.6	Rated current or rated power	- et et set s	N/A
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	mer mer me m	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	TEX WATER WALTER WALTER	N/A
F.3.5.2	Switch position identification marking	at the left of	N/A
F.3.5.3	Replacement fuse identification and rating markings	Must all all all	N/A
Wer. M	Instructional safeguards for neutral fuse	alife with with while	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
- JIP -		the state with the state of	200	
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	The state of	N/A	
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A	
F.3.6.1	Class I equipment	TEX SLIEN WITER WALLE W	N/A	
F.3.6.1.1	Protective earthing conductor terminal:	n n 1	N/A	
F.3.6.1.2	Protective bonding conductor terminals	ALTER WITE WALTER WAL	N/A	
F.3.6.2	Equipment class marking:	The state of	N/A	
F.3.6.3	Functional earthing terminal marking:	SLIER WILL MALL WILL	N/A	
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	INLIEK-	
F.3.8	External power supply output marking:	211 211	_N/A	
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р	
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	JUNITER WALTER	
F.4	Instructions	et get get get	Р	
	a) Information prior to installation and initial use	See user manual	Р	
WALTE	b) Equipment for use in locations where children not likely to be present	EK WALLER WALLER WALLER W	N/A	
JEE .	c) Instructions for installation and interconnection	- at alt alt of	N/A	
All A	d) Equipment intended for use only in restricted access area	must mer mer in	N/A	
ive an	e) Equipment intended to be fastened in place	WILL MULL MULL MULL	N/A	
TEN TEN	f) Instructions for audio equipment terminals	the state of	N/A	
" Mr.	g) Protective earthing used as a safeguard	LIE WILL WULL MULL	N/A	
MALTER	h) Protective conductor current exceeding ES2 limits	et stret wiret with	N/A	
1	i) Graphic symbols used on equipment	20, 20,	N/A	



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01	EN IEC 62368-	20, 20, 20, 20,	1,7 11.4
Clause	Requirement – Test	Result – Remark	Verdict
-NIFEK	j) Permanently connected equipment not provided with all-pole mains switch	Tet Tet Tet	N/A
Jet J	k) Replaceable components or modules providing safeguard function	with the sail	N/A
20	Equipment containing insulating liquid	Will Mur Mr. M.	N/A
IEW NITE	m) Installation instructions for outdoor equipment	at the the S	N/A
F.5	Instructional safeguards	The Mer Miles	N/A
G	COMPONENTS		Р
G.1	Switches	Mr. Mr. M.	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	m m m	N/A
G.1.3	Test method and compliance	THE STEE STEE ON	N/A
G.2	Relays	1 24 24 11 11 11 11 11 11 11 11 11 11 11 11 11	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	Sur Zu Z	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	WALTER WALTER WALTER	N/A
G.2.4	Test method and compliance	At O STEEL	N/A
G.3	Protective devices	7 1	N/A
G.3.1	Thermal cut-offs	No such component	N/A
K MLTEK	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	t Tet Tet Will	N/A
TEK .	Thermal cut-outs tested as part of the equipment as indicated in c)	The fit the	N/A
G.3.1.2	Test method and compliance	MULL MULL MULL A	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	ne me me m	N/A
m	b) Thermal links tested as part of the equipment	IE WALL MALL MAL	N/A
G.3.2.2	Test method and compliance	L at let let	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	No such component	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	mer mer me m	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	TE WALL MALL WALL	N/A
G.3.5.2	Single faults conditions:	ex outer outer outer	N/A
G.4	Connectors	The state of	N/A
G.4.1	Spacings	No such component	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
0.40		E WILL WILL AVE	-1/2 - 1/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	MULL MULL MULL	N/A
G.5	Wound components	TER THE NITER OF	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	TER STER WITER WITE	N/A
G.5.2	Endurance test	24. 24.	N/A
G.5.2.1	General test requirements	* STEET WITE WAITE	N/A
G.5.2.2	Heat run test	70 2	N/A
ine an	Test time (days per cycle)	CLIEB WIFE WALL OF	Ver -
TEX TE	Test temperature (°C)	" * * * * * * * * * * * * * * * * * * *	E -
G.5.2.3	Wound components supplied from the mains	LIFE MALL MALL WA	N/A
G.5.2.4	No insulation breakdown	a a at at	N/A
G.5.3	Transformers	ancie and ancie	N/A
G.5.3.1	Compliance method:	at the the	N/A
4, 4,	Position:	Were Mur Mile.	N/A
SLIER JOLI	Method of protection	LET THE	N/A
G.5.3.2	Insulation	2 4 4, 2,	N/A
TER WITE	Protection from displacement of windings:	All the state of	_
G.5.3.3	Transformer overload tests	and the contraction	N/A
G.5.3.3.1	Test conditions	H ITER SITER WITE	N/A
G.5.3.3.2	Winding temperatures	24, 24, 24,	N/A
G.5.3.3.3	Winding temperatures - alternative test method	LIER OLIER MILE	o [∞] N/A
G.5.3.4	Transformers using FIW	111 111	N/A
G.5.3.4.1	General	LIEF WITE WHILE WH	N/A
et let	FIW wire nominal diameter		<i>*</i> –
G.5.3.4.2	Transformers with basic insulation only	TER WITE WHILE WHEN	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	- lift whilet whilet	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	TEX TEX TEX	N/A
G.5.3.4.5	Thermal cycling test and compliance	me me me	N/A
G.5.3.4.6	Partial discharge test	THE LITTER SLITTER AND	N/A
G.5.3.4.7	Routine test	20 20 20	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	111 20 at	N/A
G.5.4.2	Motor overload test conditions	LIEF SITE WITE	N/A

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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
an .	an a	EL WILL WILL WILL	me an
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test	WHILE MULL MULL	N/A
Set S	Test duration (days):	1 + 4	all —
G.5.4.5	Running overload test for DC motors	WILL WUTE MUTE MU	N/A
G.5.4.5.2	Tested in the unit	a start of a	N/A
G.5.4.5.3	Alternative method	ite while whis whi	N/A
G.5.4.6	Locked-rotor overload test for DC motors	t at alt take	N/A
G.5.4.6.2	Tested in the unit	White Mar Aut	N/A
CLIER W	Maximum Temperature	et et et	N/A
G.5.4.6.3	Alternative method	Were Mer Mer A	N/A
G.5.4.7	Motors with capacitors	et let let	N/A
G.5.4.8	Three-phase motors	or any any any	N/A
G.5.4.9	Series motors	et tet tet tet tie	N/A
	Operating voltage:	Mr. Mr. My	
G.6	Wire Insulation	t let get site	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	Let Court of	N/A
G.7	Mains supply cords	7 37 30	N/A
G.7.1	General requirements	No such component	N/A
t st	Type	711 131	_
G.7.2	Cross sectional area (mm² or AWG)	et alter mitte spite	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	TEX STEX STEX	N/A
G.7.3.2	Cord strain relief	The Air Sair	N/A
G.7.3.2.1	Requirements	STER STER STER SIN	N/A
* #	Strain relief test force (N)	2. 10. 10. 1	√ N/A
G.7.3.2.2	Strain relief mechanism failure	TEX STEEL WITE WILL	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material	WITE WITE WITE	N/A
G.7.4	Cord Entry	-10 -24	N/A
G.7.5	Non-detachable cord bend protection	WILL WILL MILE	N/A
G.7.5.1	Requirements	1	N/A
G.7.5.2	Test method and compliance	LICK MILE MILE WILL	N/A
JUNE TO SE	Overall diameter or minor overall dimension, <i>D</i> (mm)	ex strex writer writer	W
4	Radius of curvature after test (mm):	11 12 2	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6	Supply wiring space	the were all all	N/A	
G.7.6.1	General requirements	TEX ITEX SITES ON	N/A	
G.7.6.2	Stranded wire	me me me	N/A	
G.7.6.2.1	Requirements	itet itet ourer initet	N/A	
G.7.6.2.2	Test with 8 mm strand	the offer on the	N/A	
G.8	Varistors	TET OLITER MITTER WALTER	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	ALIE WILL MALL ON	N/A	
G.8.2.1	General	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.8.2.2	Varistor overload test	WILL MULL MULL MILL	N/A	
G.8.2.3	Temporary overvoltage test	A ST ST ST	N/A	
G.9	Integrated circuit (IC) current limiters	With Mir Mari Aug .	N/A	
G.9.1	Requirements	No such component	N/A	
20	IC limiter output current (max. 5A):	They are my in	_	
INLIE W	Manufacturers' defined drift:	TEH ITER SITE ONLY	_	
G.9.2	Test Program	MIL MIL WILLIAM	N/A	
G.9.3	Compliance	LEE MITTER MALIE	N/A	
G.10	Resistors	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	L A CH	N/A	
G.10.3	Resistor test	EN WITE MUTTE MUTT MU	N/A	
G.10.4	Voltage surge test	a a at at	N/A	
G.10.5	Impulse test	WILLE MULL MULL MULL	N/A	
G.10.6	Overload test	at at let let	N/A	
G.11	Capacitors and RC units	Will My My My	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	any any any	N/A	
G.11.3	Rules for selecting capacitors	t tex trex strex act	N/A	
G.12	Optocouplers	m m m	N/A	
Wille Mu	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
ITEK NITE	Type test voltage V _{ini,a} :	of text text with		
20	Routine test voltage, V _{ini, b} :	re me me m	_	
G.13	Printed boards	et tet tet atter atter	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mrs.		the with whi.	The The	
G.13.2	Uncoated printed boards		N/A	
G.13.3	Coated printed boards	ALTER MITE MALL	N/A	
G.13.4	Insulation between conductors on the same inner surface	TEX TEX STEEL OF	N/A	
G.13.5	Insulation between conductors on different surfaces	int with the st	N/A	
do.	Distance through insulation:	in any any	N/A	
OLITER .	Number of insulation layers (pcs)	t get get get		
G.13.6	Tests on coated printed boards	Must Mer My	N/A	
G.13.6.1	Sample preparation and preliminary inspection	TEX TEX STEE	N/A	
G.13.6.2	Test method and compliance	me me and	N/A	
G.14	Coating on components terminals	TEX LIFE STEEL NO	N/A	
G.14.1	Requirements:	1, 1, 1,	N/A	
G.15	Pressurized liquid filled components	TEX LIFE NITE WITE	N/A	
G.15.1	Requirements	No such component	N/A	
G.15.2	Test methods and compliance	ALTER MITE WALTER	N/A	
G.15.2.1	Hydrostatic pressure test		N/A	
G.15.2.2	Creep resistance test	THE MALE W	N/A	
G.15.2.3	Tubing and fittings compatibility test	- L	of N/A	
G.15.2.4	Vibration test	LIE WILL MULT WILL	N/A	
G.15.2.5	Thermal cycling test	a state of the	N/A	
G.15.2.6	Force test	MULL WALL WALL	N/A	
G.15.3	Compliance	at let let	N/A	
G.16	IC including capacitor discharge function (ICX)	MULL MULL MINE	N/A	
G.16.1	Condition for fault tested is not required	No such component	N/A	
3,	ICX with associated circuitry tested in equipment	by my my m	N/A	
et antiet	ICX tested separately	Et TEX TEX NIT	N/A	
G.16.2	Tests III IIII IIII IIII	Mr. Mr. M.	N/A	
MUTTE W	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	WHITE WALTER WALTER	with -	
INLIES WAS	Mains voltage that impulses to be superimposed on	CRITER MILIER WALTER OF	ALTER -	
TEK WALTE	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	THE SLIET WIFE WA		
G.16.3	Capacitor discharge test:	20, 20, 3,	N/A	
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A	
H.1	General		N/A	
H.2	Method A	alter alter mile	N/A	



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76-1-13	100 100 100 100 100 100 100 100 100 100	39 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
to an		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

H.3	Method B		N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	Will Mult My	_
H.3.1.2	Voltage (V)	et let let liet allet a	_
H.3.1.3	Cadence; time (s) and voltage (V):	in my my	_
H.3.1.4	Single fault current (mA):	t tex liter with and	_
H.3.2	Tripping device and monitoring voltage	1/12 1/1 1/2	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	untiles while while while	N/A
H.3.2.2	Tripping device	TEX TEX LIFE OUTER	N/A
H.3.2.3	Monitoring voltage (V):	The American	N/A
J	INSULATED WINDING WIRES FOR USE WITHO INSULATION	UT INTERLEAVED	N/A
J.1	General	- let tet tet sit	N/A
20 1	Winding wire insulation:	mer me m	_
NITE NA	Solid round winding wire, diameter (mm):	if the stiff	N/A
56k 25%	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	The rest	N/A
J.2/J.3	Tests and Manufacturing	it with the My a	, <u>-,</u>
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
Mariter W	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	intit muti mut mus.	N/A
K.4	Interlock safeguard override	at let the the	N/A
K.5	Fail-safe	in my my my	N/A
K.5.1	Under single fault condition	- THE STATE STATE OF	N/A
K.6	Mechanically operated safety interlocks	Mr. Mr. M. M.	N/A
K.6.1	Endurance requirement	TER LIER WITER WITE	N/A
K.6.2	Test method and compliance:	Mr. M. M.	N/A
K.7	Interlock circuit isolation	TER STEE STEE SPITE S	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at the tit tit is	N/A
	In circuit connected to mains, separation distance for contact gaps (mm):	The My M Sh	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
TALTEX S	In circuit isolated from mains, separation distance for contact gaps (mm):	te main was mit	N/A
Stept 2	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):	with white with white	N/A
K.7.3	Endurance test	at let tet tet.	N/A
K.7.4	Electric strength test	in the man of	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	The The The Land	N/A
L.2	Permanently connected equipment	TEX TEX STEE STEE	N/A
L.3	Parts that remain energized	Mr. Mr. Mr. All	N/A
L.4	Single-phase equipment	TEN TEN STEE WITE	N/A
L.5	Three-phase equipment	1 1/1 1/1 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/	N/A
L.6	Switches as disconnect devices	Et liet nite anticon	N/A
L.7	Plugs as disconnect devices	70 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N/A
L.8	Multiple power sources	LIEF RITE WALTER WALTE	N/A
Jet .	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		W P
M.1	General requirements		P
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	PIE
M.3	Protection circuits for batteries provided within the equipment	TER STER STER WITE	- P+
M.3.1	Requirements	m m m	Р
M.3.2	Test method	TEL LIER OLIER MITE	WILL BAN
EK OLIE	Overcharging of a rechargeable battery	(See appended table Annex M)	TEL P
TEX	Excessive discharging	(See appended table Annex M)	P
TEN.	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
ir Ver All	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	ner Pur
M.4	Additional safeguards for equipment containin lithium battery	g a portable secondary	WP



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20,	EN IEC 62368-	Till with much and a	11. 24.
Clause	Requirement – Test	Result – Remark	Verdict
"Alex	M W TEN	the wife while my	- an-
M.4.1	General	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.	MAP MITEH MA
M.4.2.1	Requirements	Mur. Mur. My. M.	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	LIER WHITEK WHITEK WHITEK	WILL B
M.4.4.2	Preparation and procedure for the drop test	at let let.	TEX PUT
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	P
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	WP NITEX
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	Р
M.4.4.6	Compliance	The write mer me a	Р
M.5	Risk of burn due to short-circuit during carrying	g of the	P.S
M.5.1	Requirement	No bare conductive terminal used	Р
M.5.2	Test method and compliance	NITE WALTE WALL WALL	N/A
M.6	Safeguards against short-circuits	a de de de	P
M.6.1	External and internal faults	NITE WALL WALL WALL	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	TEE PAI
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
MULL	Calculated hydrogen generation rate:	TEX STEE BLIEF WAITE	N/A
M.7.2	Test method and compliance	20, 20, 7	N/A
WILL.	Minimum air flow rate, Q (m³/h)	ex niter write write on	N/A
M.7.3	Ventilation tests	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
M.7.3.1	General	SLIEF INLIE SPLIT WALL	N/A



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Clause	EN IEC 62368-	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
M.7.3.2	Ventilation test – alternative 1	Mr. Mr. M. J.	N/A
White M	Hydrogen gas concentration (%)	LIER NITER WILL WALL	N/A
M.7.3.3	Ventilation test – alternative 2	74 14 14 14 14 14 14 14 14 14 14 14 14 14	N/A
the and	Obtained hydrogen generation rate:	alter with white white	N/A
M.7.3.4	Ventilation test – alternative 3	a start	N/A
The .	Hydrogen gas concentration (%)	TE WILL MULL MULL ON	N/A
M.7.4	Marking	L A A A A	N/A
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	WILL WILL MULT MULT	N/A
M.8.2	Test method	and the set set	N/A
M.8.2.1	General	LIFE WALTE WALL WALL	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):	a at at at	Jet -
M.8.2.3	Correction factors:	and the sure of	-20,
M.8.2.4	Calculation of distance d (mm):	the let the sti	
M.9	Preventing electrolyte spillage	wer har me me	N/A
M.9.1	Protection from electrolyte spillage	the life of the	N/A
M.9.2	Tray for preventing electrolyte spillage	2 4, 2,	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	TE WHITE WALLE V	N/A
LIER	Instructional safeguard	t let let let si	N/A
N	ELECTROCHEMICAL POTENTIALS	THE ME THE ME	N/A
OLITER OF	Material(s) used:	THE THE STATE OF THE	The state of
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		
Liter MILL	Value of X (mm):	THE THE NITE OUTER	WILLE OF
P.	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS	Р
P.1	General	See below	Р
P.2	Safeguards against entry or consequences of e	entry of a foreign object	↓ P _{<}
P.2.1	General	- CHER WITE WHITE WHI	₩P
P.2.2	Safeguards against entry of a foreign object	The set set	Р
no in	Location and Dimensions (mm)	No opening.	m_
P.2.3	Safeguards against the consequences of entry of a foreign object	TEX SITES SITES WILLES	N/A
P.2.3.1	Safeguard requirements	20, 20, 2	N/A
MULL	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE WHITE WHITE WHITE WA	N/A



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01	EN IEC 62368-		1,7 11.6
Clause	Requirement – Test	Result – Remark	Verdict
NI STEK	Transportable equipment with metalized plastic parts	the tet tet	N/A
P.2.3.2	Consequence of entry test:	MULL MULL MULL MILL	N/A
P.3	Safeguards against spillage of internal liquids	the the life with	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	LEK LIEK NIEK WITE	N/A
P.3.3	Spillage safeguards	The said	N/A
P.3.4	Compliance	it with nite intition	N/A
P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	The state of the s	N/A
11/2	Conditioning, T _C (°C):	LIFE WHITE WALL WALL	1/2 -2
y Jer	Duration (weeks):	a at the life	16k - 1
Q S	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		N/A
Q.1	Limited power sources	at the state of	N/A
Q.1.1	Requirements	Wer Mer Aug Me	N/A
SLITER IN	a) Inherently limited output	it it it it	N/A
	b) Impedance limited output	a the thin	N/A
ilik sincir	c) Regulating network limited output	The The Little	N/A
	d) Overcurrent protective device limited output	Mr. All All	N/A
MILIE	e) IC current limiter complying with G.9	EX STEX STEX BUTER OF	N/A
Q.1.2	Test method and compliance:	24 24 24	N/A
Maria M	Current rating of overcurrent protective device (A)	WHITE WALTER WALTER WAL	N/A
Q.2	Test for external circuits – paired conductor cable	NITER WILLER WILLER	N/A
EX LIEN	Maximum output current (A):	at left test the	N/A
20	Current limiting method:	in with my my	$a_n = \frac{a_n}{a_n}$
R	LIMITED SHORT CIRCUIT TEST	of the test with a	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup	TEK ITEK SLITEK RUI	N/A
	Overcurrent protective device for test:	The the the	
R.3	Test method	THE STEE STEE STEE	N/A
ال ا	Cord/cable used for test:	in the transfer of	J+ -
R.4	Compliance	Et TEK STER STER	N/A



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

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	
LTE NI	Samples, material	ر سائنگ
1	Wall thickness (mm)	~+-
MALI	Conditioning (°C)	90 - 41 c
MALTER	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
*	- Material not consumed completely	N/A
Willy ?	- Material extinguishes within 30s	N/A
,t	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
y	Samples, material:	et -1
The	Wall thickness (mm)	. The
TEX	Conditioning (°C)	-
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
EK OU	Mounting of samples:	را ر (– ر از
2,	Wall thickness (mm)	
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A
at .	Samples, material	Tok.
10	Wall thickness (mm)	112 -01
et si	Conditioning (°C)	512th - 51
T 40	MECHANICAL STRENGTH TESTS	Р
T.1 (100)	General	Р
T.2	Steady force test, 10 N:	N/A
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N:	N/A
T.5	Steady force test, 250 N:	N/A
T.6	Enclosure impact test	N/A
MILITE	Fall test	N/A
	Swing test	N/A
T.7	Drop test:	W P



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	EN IEC 62368-	2 41 - 12 - 2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Clause	Requirement – Test	Result – Remark	Verdict
T.8	Stress relief test:	in him in the	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	all the set set	N/A
The Marie	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	at the title	N/A
- TEX	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Ogle -	MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL		N/A
U.1	General	alier alier ancie mail	N/A
LIEK MLT	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	CEX CIEX SCIENT ONLINE ON	N/A
V	DETERMINATION OF ACCESSIBLE PARTS	14 14 14	N/A
V.1	Accessible parts of equipment	LITER WITE MULTER WALL	N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	Marie Marie	N/A
V.1.3	Openings tested with straight unjointed test probes	TE LIE GUILLANTE	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	Mr. In A	N/A
V.1.5	Slot openings tested with wedge probe	* SLIER WILLER WHILE AN	N/A
V.1.6	Terminals tested with rigid test wire	n, 2, 7	N/A
V.2	Accessible part criterion	ALTER MITE WALTE WALL	N/A
X ex wes	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
EN OLITE	Clearance	CH TEX TEX	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	my my m	N/A
Y.3	Resistance to corrosion	TEX TEX WIFE WIFE	N/A
Y.3	Resistance to corrosion	Mr. M. M.	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	LIER WALTER WALTER WALTER	N/A
Y.3.2	Test apparatus	et tet tet tiet tiet in	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	Mr. Mr. M. M.	N/A
Y.3.4	Test procedure:	THE THE STEE ST	N/A



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	EN IEC 6	2368-1	
Clause	Requirement – Test	Result – Remark	Verdict
Me		- LIER LIFE MITE WALL	Mur Mu
Y.3.5	Compliance	74. 14. 14	N/A
Y.4	Gaskets	LIEN SLIER WILL MILE	N/A
Y.4.1	General	in the	N/A
Y.4.2	Gasket tests	ITEX WITER WITE WHILL W	N/A
Y.4.3	Tensile strength and elongation tests		N/A
an.	Alternative test methods	the with mir we	N/A
Y.4.4	Compression test	L A At A	N/A
Y.4.5	Oil resistance	anti wat wat	N/A
Y.4.6	Securing means	the set of the	N/A
Y.5	Protection of equipment within an outdoor	enclosure	N/A
Y.5.1	General	at let tet tet .	N/A
Y.5.2	Protection from moisture	is my me me in	N/A
MILIE	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test	the the the m	N/A
Y.5.4	Protection from plants and vermin	TEX SEX SLIER WITE	N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General	THE ART PRINTERS	N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment	Et TE MITE WATER WATER	N/A
Y.6	Mechanical strength of enclosures	711 711 7	N/A
Y.6.1	General	THE MILE WALL WALL	N/A
Y.6.2	Impact test	: x	N/A



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n,	ale	24, 24, 2,	EN IEC 62368-1	ITER UNLIER WALLE	MULT. M	an.
Cla	ause	Requirement – Test	Net Mer M. M.	Result – Remark	all 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)	life write write were our	Р
WALTER O	Clause numbers in the cells that are shaded light grace 120368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and any those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P P P P P P P P P P P P P P P P P P P
neit white	Add the following annexes: Annex ZA (normative)Normative references to intern corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	THE WATE WALLE WAS	EK WAL
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	Not such equipment	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. $E = \int_{0}^{T} p(t)^2 \mathrm{d}t$	INTERNALIE WALLEY WALLEY WALLEY JUNITER WALLEY WALLEY WALLEY JUNITER WALLEY WALLEY JUNITER WALLEY JUNITER WALLEY JUNITER WALLEY JUNITER WALLEY JUNITER WALLEY JUNITER WALLEY	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
de	An In In	. The the still will all the	me m	

3.3.19.4	sound exposure level, SEL	10, 20,	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	whitek whitek whitek white	MULTER
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	lifer white white white	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	ER WHITE WHITE WHITE M	e un
WILLER OF	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	white with the area	NIJEK MLJEK
3.3.19.5	digital signal level relative to full scale, dBFS	WE ME ME ME	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	TEX WHITEK WHITEK WHITEK	in it is
	value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	A MULTER WATER WATER WA	ITE WAL
Whitek	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	WHITEK WHITEK WHITEK WHITE	MALTER MALTER
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources		N/A
Which	Replace 10.6 of IEC 62368-1 with the following:		is an
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	untick white white white white the care white white white white white white white the care white	White of
	 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 	White white white whi	ex mutex
	 has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). 	NITER WHITER WHITE WHITE	Nates an
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	t street mark and and	TEX WALT
	The time of the state of	71, 70, 0,	



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Clause Requirement – Test Result – Remark			
Requirement – Test	Result – Remark	Verdict	
NOTE 1 Protection against acquatic energy courses from	THE WALL MALE	The The	
telecom applications is referenced to ITU-T P.360.	the state of	LET LET	
NOTE 2 It is the intention of the Committee to allow the	OLIER MALTE MALTE	me me	
alternative methods for now, but to only use the dose	24 25 2	A let	
manufacturers are encouraged to implement 10.6.5 as soon as	TEX LIER OLIER OF	Lite Wally W	
possible.	her live let let		
Listening devices sold separately shall comply	at at let of	et little	
with the requirements of 10.6.6.	MULL WILL WAS	211.	
		11- 12	
	LIER WITH WITH	When when	
	27/2 20 20	4	
The substitution, who	Let Let Let	ALTER MITE	
NOTE 3Professional equipment is equipment sold through	Mr. Mur. Mur. 1	11 - 12	
electronics stores are considered not to be professional	a st st	TEN TEN	
equipment.	TER MITE WILL WA	" " " " " " " " " " " " " " " " " " "	
– hearing aid equipment and other devices for	10, 1	+ +	
assistive listening;	IN THE STEEL STIE	WILL WILL	
- the following type of analogue personal music	The The The		
	. It let the	LIER OLIE	
	antita mati mat	21/2	
		et let	
cassette player/recorder;	- EFF WITTE N	VII. 2 Vr. 7	
NOTE 4 This exemption has been allowed because this		4 1	
technology is falling out of use and it is expected that within a	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Williams	
	in the the	20	
The Title Will Mark May Mill and Mill a	L of the All	- 56 - 55°	
	WILL MALL MALL	41100 4110	
in use.	72. 4	14 14	
My My My The	TEX STEE WITE	MULL MULL	
	m. m. m.		
	at let set	TER STEE	
Tolovant toy standards may apply.	tree were and an	21 22	
The relevant requirements are given in	a state of	it set s	
	THE MALL WALL	Mr. Mr.	
	10. 0.	N1/A	
	LIER WITER WITE	N/A	
	27/2 201 201		
by European Council Recommendation	THE THE THE	NITER INLIE	
1999/519/EC of 12 July 1999 on the limitation of	our, mur, we a		
	e et et	Elt TEX	
	THE WITE WILL WA	211 211	
	20 0	L 14 16	
Time-Varying Electric, Magnetic, and	et tet tet te	WELL WILL	
Electromagnetic Fields (up to 300 GHz). For hand-	Aller Aller Aller	20	
I neig and body mounted devices, attention is	a state		
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. 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. Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: — professional equipment; NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. — hearing aid equipment and other devices for assistive listening; — the following type of analogue personal music players: • long distance radio receiver (for example, a multiband radio receiver, and All radio receiver), and • cassette player/recorder; 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. — a player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz). 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	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. 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. Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: — professional equipment; NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. — hearing aid equipment and other devices for assistive listening; — the following type of analogue personal music players: • long distance radio receiver (for example, a multiband radio receiver an AM radio receiver), and • cassette player/recorder; 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. — a player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in EN 71-1:2011, 4:20 and the related tests methods and measurement distances apply. Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz. 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	



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Lange Committee	Mr. Mr. Mr. M. M.	EN IEC 62368-1	MILL MULL MILL
Clause	Requirement – Test	Result – Remark	Verdict

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



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Me	an an transfer of the state of	in white white white	Mr. M.
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 LAeq, T acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	JEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	N/A ITEL STEEL STEEL INTER INTER
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	WAITER WHITER	N/A
10.6.3	Classification of devices (new)	THE TEN	√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	Not such equipment	N/A

Commission Decision of 23 June 2009, are given below. 10.6.3.2 N/A RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, racoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized

interface) when playing the fixed "programme simulation noise" described in EN 50332-1.

10.6.3.3 RS2 limits (new)

RS2 is a class 2 acoustic energy source that does not exceed the following:

- for equipment provided as a package (player

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



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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
The .	M. M. TER THE	er with any	we will
	with its listening device), and with a proprietary	20 7	X 24
	connector between the player and its listening	THE THE LITER	Will will
	device, or where the combination of player and	They were the in	20
	listening device is known by other means such as	200	it let
	setting or automatic detection, the weekly sound	LEK TEK STER NO	it is
	exposure level, as described in EN 50332-3, shall	The sale was the	20 20
	be ≤ 80 dB when playing the fixed "programme		t et .
	simulation noise" described in EN 50332-1.	THE THE LITE WITH	and and
	 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that 	The My M.	
	allows connection to a listening device for general	1 1 1	76 JE
	use, the unweighted r.m.s. output level, integrated	TER LITE OUT	wer when
	over one week, as described in EN50332-3, shall	The The In .	
	be ≤ 15 mV (analogue interface) or -30 dBFS	at the state	All The
	(digital interface) when playing the fixed	LIEN SLIPE WITH WE	in the
	"programme simulation noise" described in EN	14. 24. 25. 2	
	50332-1.	at at at it	EK JEEK O
10.6.4	Requirements for maximum sound exposure	The Muri Mur Miles	N/A
10.6.4.1	Measurement methods	Not such equipment	N/A
	All volume controls shall be turned to maximum	inti wat wat	20,
	during tests.	1 2	14 13th
	by my my my the st	- LEK TEK TEK	Cliff Mill
	Measurements shall be made in accordance with	with with the re	1. 2.
- t	EN 50332-1 or EN 50332-2 as applicable.		2t 25
10.6.4.2	Protection of persons	THE MAIN MAIN	N/A
	Except as given below, protection requirements for	7 7 7 7	
	parts accessible to ordinary persons,		L VIEW VI
	instructed persons and skilled persons are	it aire and wat	44 44
	given in 4.3.	20, 20	, L .
	NOTE 1 Volume control is not considered a safeguard .	I THE LIER STREET	WILL WILL
	at the text and will will will	mr mr m.	20 2
	Between RS2 and an ordinary person , the basic	A ST ST	THE LITTER
	safeguard may be replaced by an instructional	WILL WILL MILL W	2/1/2
	safeguard in accordance with Clause F.5, except	12. 25. 2	st st
	that the instructional safeguard shall be placed	at at all o	Er Jile ,
	on the equipment, or on the packaging, or in the	ery ours, and any	21, 21,
	instruction manual.		.
	Alternatively, the instructional safeguard may be	of the the	mer and
	given through the equipment display during use.	Mer The My	20 20
	The elements of the instructional safeguard	1 1	LEV LEV
	shall be as follows:	THE LIFE LIVE	inter and
		The The The	
	(19)	1 1	LET LET
	- element 1a: the symbol / P), IEC 60417-	THE STEE STILL STILL STEE	AND S
	6044 (2011-01)	16 24 24 24 24	
	- element 2: "High sound pressure" or equivalent	1 1 1 1	The Table
	wording	LIE SITE WITH SING	an an
	- element 3: "Hearing damage risk" or equivalent	24, 24, 25	
	wording	4 4	15
			200
	 element 4: "Do not listen at high volume levels 	et aller miles anite	MULL MULL
		MULTER WILLER MULTER	Mury Aur



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



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	EN IEC 62368-1	70, 70, 7	
Clause	Requirement – Test	Result – Remark	Verdict
ale.	Will the state of	and the suntil sunt	mr m
	acknowledgement. In case the user does not acknowledge, the output level shall automatically		Et LEX
	decrease to compliance with class RS1.	TER STEEL WITE OF	VICE WALL
	A THE THE THE STATE OF THE STAT	24 24 24 24 2	
	The warning shall at least clearly indicate that	at at let o	IFE LIFER .
	listening above 100 % CSD leads to the risk of	STE WILL MILL MAN	24 24
	hearing damage or loss.		<u></u>
10.6.5.3	Exposure-based requirements	EX IEX LITER WITE	N/A
	With only dose-based requirements, cause and	44. M. M. M.	
	effect could be far separated in time, defying the	at let let	JE SIE
	purpose of educating users about safe listening	THE WALL WALL	21/2
	practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	20.	A 15
	term sound level a user can listen at.	TEN TEN LITER O	LIE MILA
	A SE SEE SEE MEET AND .	ner were my in	
	The exposure-based limiter (EL) shall	at at at a	Eth TEX
	automatically reduce the sound level not to exceed	LIER WITE WITE WALL	214 211
	100 dB(A) or 150 mV integrated over the past 180	10, 10, 1	4 .
	s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level	It let tell the	NET WELL
	reduction to reaching target output) shall be 10 s	Will My My	20, 20,
	or faster.	1 4 4	LET LET
	to the text	LIEB SLIE WITE W	VIII MUST
	Test of EL functionality is conducted according to	74. 74. 22. 1	
	EN 50332-3, using the limits from this clause. For	at the	THE LITTER
	equipment provided as a package (player with its	" " " " " " " " " " " " " " " " " " "	24 2
	listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided		t et .
	with a standardized connector, the unweighted	The River Miles	The same
	level integrated over 180 s shall be no more than	111 111 111	
	150 mV for an analogue interface and no more	L st st st	LIFE SLIFE
	than -10 dBFS for a digital interface.	Will Mill Mill	11/2
	NOTE In case the source is known not to be music (or test	T *	et et
are ar	signal), the EL may be disabled.	THE THE STATE OF	The Marie
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	1 24 24 20 20	
	listening device, and with the volume and sound	at let let let	- LT # 15LT
	settings in the listening device (for example, built-	WILL WALL WALL	21/2 211
	in volume level control, additional sound features like equalization, etc.) set to the combination of	- T	- E* - E*
	positions that maximize the measured acoustic	TEN LIER CLIER	White white
	output, the input voltage of the listening device	Mr. Mr. M.	
	when playing the fixed "programme simulation	at at let	TEK JEE
	noise" as described in EN 50332-1 shall be ≥ 75	WITE WILL WALL WA	100
		40.	
	mV.		
	alite with water with the	et let let all	TEN OF
EX WALTE	MV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TEX MULTER MULTER WALT	The Marian
10.6.6.2	NOTE The values of 94 dB and 75 mV correspond with 85 dB	TEX MALTEX WALTER WALT	N/A
10.6.6.2	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input With any playing device playing the fixed	TEK WILLEK WILLEK WILLEK	N/A
0.6.6.2	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input	TEK MILIEK MILIEK WILLEK	N/A



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	EN IEC 62368-1	rice with more more	
Clause	Requirement – Test	Result – Remark	Verdict
Muriter M.	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the LAeq, <i>τ</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	STEEL STEEL STEEL STEEL	MAL MALTER OF
10.6.6.3	Cordless listening devices	7, 7	N/A
whitek whitek	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	LET WHITE WH	White whitek was a water was a
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	white white whi	N/A
3	Modification to the whole document		Р



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

		"country" note	s in the refe	rence docume	nt according	to the following	P
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	THE STATE OF THE S
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	SALES V
+ 12-	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	ici ex
3	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	6 J
7/1	Table 13						10/2
NITE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MITE
EX.	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	IN STEK
- 10	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	XEX ON
MILT	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MALTE
(Jd	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	JEK
٤	Y.4.5	Note				2	2/2 .
112	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			10 AV		L	13 16 11
Me	odification	to Clause 1					Р
NC	TE Z1 The use				WALTER WALT	ER WHITE WHI	Р
20	11/65/EU.			1 1			100
	lis lis	0.2.1 3.3.8.3 5.2.2.2 5.4.2.3.2.4 Table 13 5.4.10.2.1 5.5.2.1 5.6.8 8.5.4.2.3 40.6.1 Y.4.5 Modification Add the follow	0.2.1 Note 1 and 2	State	Section Sect	Section Sect	0.2.1 Note 1 and 2 1 Note 4 and 5 3.3.8.1 Note 2 3.3.8.3 Note 1 4.1.15 Note 4.7.3 Note 1 and 2 5.2.2.2 Note 5.4.2.3.2.2 Note c 7able 12 5.4.2.3.2.4 Note 1 and 3 5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Note Table 13 5.4.10.2.1 Note 5.6.8 Note 5.5.8 Note 5.6.4.2.1 Note 2 and 3 and 4 5.5.2.1 Note 2 5.7.8 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.8 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 6 10.5.3 Note 2 8.5.4.2.3 Note 3 F.3.3.8 Note 3 Y.4.1 Note 2 Modification to Clause 1 Add the following note: Modification to Clause 1



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

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
dunifer under Est windifest windifes	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.	mains Interest white the property of the prop	WALTER OF STEEL OF ST
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



N/A

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
The same	THE THE THE THE THE	The state of the s	The An	
10.5.1 WALTER WALTER	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an	MILIER MILIER MILIER	N/A	
	intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a	MILIER WHITE WHITEK	TEX WEEK ON	
	radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	the market market market	AND THE MILE	
	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	united white	
iek wair Lariek	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	THE WALL WALL	EX WAITE MAN	
9	Modification to G.7.1		N/A	

G.7.1

10

Add the following note:

Modification to Bibliography

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.



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The Maria	Mrs. Mrs. All	EN IEC 62368-1	IE! WITE WALLEY WAL	in mil mil
Clause	Requirement – Test	Net Ant Mr. M.	Result – Remark	Verdict

ale	and the state of the state with our and	211
, et	Add the following notes for the standards indicated:	P
Whitek whitek Whitek whitek Whitek whitek Whitek whitek	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61558-2-8. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-331 NOTE Harmonized as EN 61643-331.	WILLER WI
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15 THE WALLEST OF THE STREET OF THE STR	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A N/A N/A N/A N/A N/A N/A N/A
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A



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EN IEC 62368-1					
Clause	Requirement – Test	The Mary and the	Result – Remark	et s	Verdict

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



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100	EN IEC 62368-1	the the court	20, 0,
Clause	Requirement – Test	Result – Remark	Verdic
Me	an an a contraction of	att net we	The all
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STEEL STEEL	NITEK MALTER
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	united whites whites whi	TEX WITEX
EK WALTER	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITEK WHITE	whi the wh
5.5.2.1	Norway	t let litt liter	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mr.	CH TEX
iner on	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Writer Murie Mulie M	ek Lex
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	A STIFF WITER WATER	WILL A MINE
	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.	Whitek Muriek Muriek	MITER WALTE
5.6.1	Denmark	No such equipment.	N/A
sex unise unisex	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	Whitek whitek whitek	yunite yunit
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WALTER WALTER W	NITE MALL
5.6.4.2.1	Ireland and United Kingdom	A A A A	N/A
	After the indent for pluggable equipment type A , the following is added:	THE MULTER MULT WITH	- 7 EX
	 the protective current rating is taken to be 13 this being the largest rating of fuse used in the mains plug. 	MALIER WALTER WALTE	MUE MU
5.6.4.2.1	France	TEN LIFE OLIE	N/A
	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.	WILE MUTTER MUTTER AND	itek mitek K
5.6.5.1	To the second paragraph the following is added:	The way with win	N/A
MULLER	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	A MULTER WATER WATER	Write Auri



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The with	Mes mes in in	EN IEC 62368-1	TEL STEE WITCH ST	Lie Write Will
Clause	Requirement – Test	MICH WE	Result – Remark	Verdict

5.6.8	Norway	24	N/A
	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.	unifer while while while	WALTER WAL
5.7.6	Denmark	The Maria Maria	N/A
Whitek W	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Whitek whitek whitek whitek	MITEL MITEL MITEL
5.7.6.2	Denmark	TEX STEEL WITER WITE W	N/A
ek whitek	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.	and the sourcest sour	ek vinitek
5.7.7.1	Norway and Sweden	Not such system.	N/A
MLTER ON TEX ON TEX ON TEX	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. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which	E MILIER	NITER WAS
	may be provided by a retailer, for example.	rie murit must must an	, 'm'
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	MUTER WHITER WHITER WHI	ER WALTE
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILE MUTER MUTER MUTER	Notes A
	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)"	TEK WALTER WALTER WALTER WALTER	TEX WALT MITES
	NOTE In Norway, due to regulation for CATV-installations, and	The Mr. Mr. M.	20. 2



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20,	EN IEC 62368-1	to the Mr. The 2	2 02
Clause	Requirement – Test	Result – Remark	Verdict
and a	M. M. C. LET J.	LITE OUT OF AND	10
nuriek an	in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	WELLER WILLER MULTER	WINLTER .
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sites in the whites whites	WATER ON
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	EX WHITEX WHITEX WHITEX WHI	LE WALTES
ner win fex white whitex	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	MITE WALTER WALTER WALTER	un itek uni Elek unite
8.5.4.2.3	United Kingdom	No external circuits.	N/A
	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.	THE MILITER WHITER	NALTEK W
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.4 Neit on the state of the st	The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	mains	dunifek dunifek dunifek dunifek dunifek dunifek
G.4.2	Denmark	Not directly connected to the	N/A
	To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	mains	WILEK WA
	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	Whitek whitek whitek out	TY WALTER



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10.	EN IEC 62368-1		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Clause	Requirement – Test	Result – Remark	Verdict
2/1/5	THE THE THE THE	the little with the way	- an-
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	30 x x x	* 15*
	with standard sneet DK 2-1a of DK 2-3a.	THE STILL MITE WALL	Wer
	If a single-phase equipment having a RATED	The My In	
	CURRENT exceeding 13 A or if a polyphase	LET LET LIEB LIEB	WITE M
	equipment is provided with a supply cord with a	LLIE WALL WALL WALL	20, 20,
	plug, this plug shall be in accordance with the	t at	10 1
	standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	ex writer maiter maite m	ic. wer
	Mains socket outlets intended for providing power	at at at at	E JEK
	to Class II apparatus with a rated current of 2,5 A	alifer while while while	The same
	shall be in accordance DS 60884-2-D1:2011	70, 20,	
	standard sheet DKA 1-4a.	LIEK SLIEK WLIEK WALTER	MILLE
	Other current rating socket outlets shall be in	14. 14.	24
	compliance with Standard Sheet DKA 1-3a	let tex tree with	Will at
	or DKA 1-1c.	in my my	0
	Mains socket-outlets with earth shall be in	at left left light is	ITER ISLIE
	compliance with DS 60884-2-D1:2011	and we we	-20.
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-		* Tex
	5a or DK 1-7a	LIER OLIFER MALTE MALT	MUST
	Justification:	4 4	t
	Heavy Current Regulations, Section 6c	ARE STATES MITTER	White A
G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is	mains	We are
	added:	The The The A	
	The plug part of direct plug-in equipment shall be	L at all the	TE STE
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,	WILL MULL MULL MAN	40,
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17,		t 15th
	except that the test of 12.17 is performed at not	TER STEE STEE WITE	WELL.
	less than 125 °C. Where the metal earth pin is	me m. m.	3
	replaced by an Insulated Shutter Opening Device	at at let let	TEN
	(ISOD), the requirements of clauses 22.2 and 23 also apply.	cette white wat white.	21, 20,
G.7.1	United Kingdom	e at at all	N/A
	To the first paragraph the following is added:	Music mer mer m	2/11
	Equipment which is fitted with a flexible cable or	the text of the st	E OLIE
	cord and is designed to be connected to a mains	MILL MILL MILL WILL	20
	socket conforming to BS 1363 by means of that	the state of	THE STATE OF THE S
	flexible cable or cord shall be fitted with a	LIER SLIER OLIVE MALTE	11/1/1
	'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory	14. 24. 24. 2	
	Instrument 1994 No. 1768, unless exempted by	at let let let	~ IE . (c)
	those regulations.	The Will Mill Aug 1	1, 20,
	NOTE "Standard plug" is defined in SI 1768:1994 and	1 + st st	15th 56
	essentially means an approved plug conforming to BS 1363 or	a life with with whi	alle
	an approved conversion plug.	11. 10. 1.	



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

G.7.1	Ireland	24. 25.	N/A	
MITER	To the first paragraph the following is added:	SLIET MITEL MILIER WHITER	Milier	
LIEK WAI	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	STEK Whitek whitek whitek wh	LITEK W	
G.7.2	Ireland and United Kingdom	UNLIES WALL WALL WALL WALL	N/A	
	To the first paragraph the following is added:	the set set		
	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.	intil antit wat and		
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	Germany The following requirement applies:	No CRT within the equipment.	N/A	
	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.	MULTER WHITER WHITER WHITER		
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive	TE WHITE WHITE WHITEK WHITE		
	96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	united whites whites		



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nu mu	1/1 1/1 1/1	EN IEC 62368-1	TER WITE WALL	MUTTER AIL	an an
Clause	Requirement – Test	Mur. M. M.	Result – Remark	at a	Verdict

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



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3 Mr. M	EN IEC 62368-1	TER WILL MULL MULL M	- an
Clause Re	equirement – Test	Result – Remark	Verdict

5.2	TABLE: Classification	on of electrical er	nergy sourc	es		t	P⊢
Supply Voltage	Location (e.g.	Test conditions Parameters			ES		
	circuit designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
5Vdc	The EUT is designed to be supplied by 5VDC	Normal	<60Vdc	n -a	SS	DC	ES1
		Abnormal	Jak .	ITER WITE	JOLITE W	Very Aller	(Declar ed)
		Single fault – SC/OC	711 - 711	t Clit	CLIEK NI	EK -	eu)
4.20Vdc	The EUT is	Normal	<60Vdc	1/1,- 2,	SS	DC	ES1
	designed to be supplied by	Abnormal	CEX CEX	ilies inti	17 11 LIVE	WILL W	in m
	Internal Li-ion battery cells	Single fault –	77/2	701 _ 701	t TEX	NIE WI	EK WIT

Supplementary information:

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

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

SC= short circuit; OC= open circuit

5.4.1.8	TABLE: Working	voltage measu	rement		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
- wite	White Mrs. M	2/15	4 7+	et the	LIEK NITER WITE WHITE
` _A	at let it	- ciet and	min me	21/2 21/	, <u>, , , , , , , , , , , , , , , , , , </u>
Suppleme	entary information:				
	at let let	TER OLIV	When are	24 24	7

5.4.1.10.2 TABLE: Vicat soft	5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method		ISO 306 / B50	miter uni —			
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)			
-weit met me me		t with street	LIE WILL - WILL			
Supplementary information:						
WELL THE THE	m & at at	TER TER N	The water was			

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



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EN IEC 62368-1									
Clause	Requirement – Test	Result – Remark Verdict							
" Plan	all the second	the still net only one on							
- 6	TEX TEX TEEN WITE WITE MY	M M							
Suppleme	ntary information:								
.+	tex tex itex site with our	The state of the s							

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)
- nette white whit whi	2/1	4,	بر		All L	56t	EK TITE	WILLEY.

Supplementary information:

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

5.4.4.2	TABLE: Minimum	TABLE: Minimum distance through insulation						
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)			
- ,et	TER TER ST	WITE WILL WAL	111 - 21,		et - et			
Supplemen	tary information:							
*See also s	ub-clause 5.4.4.9	The True		J 15	et set s			

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz								
Insulation material E_{P} Frequency K_{R} Thickness d (mm)								
- WILL MULL MULL M	- Mr.	- 4	# 11+	-TEX STE	- CLIER OF	AE MILIT		
Supplementary information:								
will will the shirt	24	, ,,,,,,,,		CENT SEPT	JEE RIT	TIPLY T		

5.4.9 TABLE: Electric	strength tests	at at at	TEX LIEX ALT	N/A
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	TER WALLE WALL	211. 211. 21.	1 1 2+	LEF LEF
-nur mr. m.	L St. Set	- JEK STER MIT	- with while h	Vr. 170 1
Basic/supplementary:	WILLE WAL	20 20 20 Z	at at	CENT STEP ST
The Me Me And	At All the	TIEK NITER WITE	while mury my	21/2 21/2
Reinforced:	Will Mr. A		at at a	F STEP STE
- 1/11 1/11 1/11	et stet si	ER OLITER WITE W	The Maria Maria	21/2 - 21/2
Routine Tests:	in Mr. M.		et let let	ALTER OLITER
- 4, 4,	et let site	- nite white whi	- me me.	ig. 20
Supplementary information:				



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La Maria	All Sales E	EN IEC 62368-1	Mr. Mr.
Clause	Requirement – Test	Result – Remark	Verdict

LIADLE.	Stored discharge of	on capacitors			N/A
	Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
7/1 /		Normal	JER WALLE	hri Ann.	in -in
LIFEE WA	TER WALTER WALTER	Single fault: SC/ OC	* Jet N	SEK TEK NE	LIEK WALTER
	all villed and		Supply voltage (V) Operating and fault condition 1) Normal Single fault:	Supply voltage (V) Operating and fault condition 1) Switch position Normal Single fault:	Supply voltage (V) Operating and fault condition 1) Switch position Weasured voltage (Vpk) Normal Single fault:

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	TABLE: Resistance of protective conductors and terminations						
Location	Location Test current Duration Voltage drop (A) (min) (V)							
		the country	1612 - 1945 A	L 4 2				
Suppleme	entary information:							
		TE MILL	70	14 10	,de			

5.7.4	TABLI	E: Unearthed accessible parts					
Location		Operating and Supply		F	Parameters		ES class
		fault conditions Voltage (V	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
L/N to secondary		Normal	. . .€	+ 5781 STE	"NLTE" NALTE	"INVER	211 - 21
terminals	Abnormal: overload	Muss - Mus	an - an	iter sites	mliet a	LIEK-	
		Single fault: SC/ OC	LIER WALL	nur, -nur,	n zn		EK

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed accessible conductive part						
Supply volta	age (V)	BY TEN TEN	ALTER OLIER S	ULL WALL OF	_		
Phase(s)		[] Single Phase; [] Three	Phase: [] Delta	[] Wye			
Power Distr	ibution System	[]TN []TT []IT	EL STEE IN	it with whi			
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt		
- 20, 1	a state of	A STER WITE WILL	ans - ans	24, 24,	4.		
Supplement	tary Information:						
21, 20,		- LIER ALIER MIRE	NATE WALL	me me	10, 20		



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in mi	The The Table	N IEC 62368-1	mer me
Clause	Requirement – Test	Result – Remark	Verdict

5.8	TABLE	TABLE: Backfeed safeguard in battery backed up supplies							
_ocation						ES Class			
Hill Will	Mr.	4115 411	T	A - 3	Et JEE (LIER WITE	Whis - Wh		
Supplemen	tary infor	mation:							
C 100	arv.	ar an	70	at at	- 48° 5		NET WILL		

6.2.2	TABLE: Power source	e circuit classifi	P			
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
5V input	UNI EK UNITEK VINITE	White whi	24 LB	- TEX	3S	PS1 (declared)
Battery circu	it	2.66	1.33	3.54	3S	PS1

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE: Determ	ination of Arcing PIS	, and all	711 Th	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
THE STEEL				-4-10	- LIFE OLIFE
Supplement	ary information:				
F (1)	المان المالي المالي	in which we is		at at all	All The

6.2.3.2	TABLE: Determi	BLE: Determination of resistive PIS						
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No				
JE MIL	Wer Alver	n - + 4	THE SHIP JUST MIS	" INIT WILL				

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.

8.5.5	TABLE: High pre	essure lamp	المالية المالية المالية المالية	in Muri Mur	21/4	N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		ticle found nd 1 m Yes / No
- NITE WA	ii. Aur. Aur.	-24	et jet jet	ALTER TALLER OF		men, m



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and and	M. M. M.	EN IEC 62368-1	ies me
Clause	Requirement – Test	Result – Remark	Verdict

Suppleme	entary inform	ation:									
111 1	hr M	20,	72,	 ×	JE*	J. J. F.	N.C.T.E.	MITTE	William	Mr	O)

Supply voltage (V	')		.:	- mr. m. m. m.					
Max. transmit pov	ver of transmi	tter (W)	:	JEX JE	y alter	OLTEN.	WILLEY W		
	,	.,,		vith receiver and direct contact		with receiver and at distance of 2 mm		eiver and at e of 5 mm	
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Steel disc	Et Ster	Neite - Mill	n.	1/1, 2,		L J+	75%	76t 3	
Aluminium ring	70.	x - #	12	11 Et (21)	ET JOLIT	MALIT	2 - 2	10 -m	
Aluminium foil	12E 10	St. Marine	1 - 2					(B) - (B)	

5.4.1.4, 9.3, B.1.5, B.2.6	mperature m		au au	LIEK WALLE	P			
Supply voltage (V)		:	Charging With empty battery	Discharg g	gin	VILLER	_	
Ambient temperature du	ring test T _{amb}	(°C):	See below	See bel	ow	20 2.	_	
Maximum measured temperature ${\cal T}$ of part/at:				T (°C)				
Surface of Battery			49.1	26.9		16th 176th	Ref.	
PCB near U2	PCB near U2			28.1	21/2 -21/2	7/1	130	
PCB near U10	Mer M	b. 2.	44.0	28.1	76th 56	NITE TO	130	
PCB near U5	Set S	sex and	43.4	28.4	ur m	20,	130	
Internal enclosure near U	2 111	ار خ	48.3	26.0	TEK LEET	WITE N	Ref.	
Outside enclosure botton	1 JEH JUE	JAL LA	34.7	34.7			48	
Outside enclosure Top no	ear LED light	, t	32.4	29.1	y Cliffin	TE TOLL	48	
Ambient	TEK NITEK	White !	25.0	25.0	- ' - '	L - J+		
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class	
- until white whi	'm		A -J+	7 4 -	JE - JE	C. Land	VILL WILL	

Supplementary information:

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



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

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

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

B.2.5	TA	BLE: Inp	ut test					P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Wireless charging	INLIE IER	White	uni. Mitex	For wireless power is 1.89W	2.5	er ani	EK TEK	Charging for empty battery. Battery charge current: 0.088A
4.2VDC		0.021 (Battery circuit)	7 - 910°	TEK MUTE	White TEX	VINL	White of	Battery discharging current:0.021A

The maximum measured current under rated voltage did not exceed 110% of the rated current.

TABLE: Abnor	mal operatin	g and fau	It condit	ion tests		A P
nperature T _{amb} (°C)	<u></u>		: Se	ee below	_
ce for EUT: Mar	ufacturer, mo	del/type, d	outputrati	ng:	2 July Apr.	_
t Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (n
5VDC with emp	oty battery	711	24	- L	at at the	Et LIER
S-C	TEX WALTER	10 mins	unli ^{ER} vi	est de	Unit shut down immed damage, no hazard. Recoverable.	diately. No
mode with fully	charged batte	ery	2000	in	The state of	A
S-C	4.14 Vdc	7H	y walte	WALTER	Unit shut down immed damage, no hazard. Recoverable.	diately. No
	mperature T _{amb} (rce for EUT: Mar nt Condition y 5VDC with emp s-c g mode with fully	mperature T _{amb} (°C) ce for EUT: Manufacturer, mont Condition Supply voltage (V) y 5VDC with empty battery s-c	mperature T _{amb} (°C) ce for EUT: Manufacturer, model/type, of the Condition Supply voltage (V) Test time y 5VDC with empty battery s-c 10 mins g mode with fully charged battery	mperature T _{amb} (°C) ce for EUT: Manufacturer, model/type, outputrating the Condition Supply Test Fuse voltage (V) time no. y 5VDC with empty battery s-c 10 mins g mode with fully charged battery	rce for EUT: Manufacturer, model/type, outputrating: nt Condition Supply Test Fuse Fuse voltage (V) time no. current or 5VDC with empty battery s-c 10 mins g mode with fully charged battery	mperature T _{amb} (°C)

Supplementary information:

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

- 1) 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.

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



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NI TILL	The Mar Mill	EN IEC 62368-1	TEN WITE WITE	White Alvie Alle	
Clause	Requirement – Test	Write Mure Mr. M.	Result – Remark	Verdict	3

M.3	TABLE: Pr	otection circu	its f	for batteri	es provid	led v	vithin	the equ	uipment	, P+
Is it possible	to install the	battery in a re	vers	se polarity	position?.	:	SEE.	WITE.	No The same	_
					C	Charg	ging			
Equipment S	pecification		Vo	oltage (V)					Current (A)	
		Se	ee pa	ages 2 ratii	ng			Se	e pages 2 ra	ting
					Batter	y spe	ecifica	tion		
		Non-recharge	Non-rechargeable batteries				Rec	hargeab	le batteries	
		Discharging current (A)	Unintentional charging		Voltage	Charging		ent (A)	Discharging current (A)	Reverse charging
Manufact		CL		ırrent (A)	J ()			` ′		current (A)
Nori Lithium	/ 014539	CER THE	4.2		0	.11	0.11	15° 1		
Note: The tes	sts of M.3.2 a	are applicable o	only	when abov	e appropr	riate	data is	s not ava	ailable.	
Specified bat	tery tempera	ature (°C)			1/2 2/	:	17		0-62	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltage (V)	e Obs	ervation
MULLE MU	Normal	Charge	2,	7h	ek jek	0.	088	4.0	Unit norma	al working, no o hazard.
U4 6-1	SC	Charge	74.e	7h	MIE		, J	- da	Unit shut of immediate damage, r	ly. No
re n a lir	Normal	Discharge	et	7h	nlie l w	0.	021	4.0	Unit norma	al working, no o hazard.
U4 6-1	SC	Discharge		7h	IEK -	£ 3	WILLER	WILLER	Unit shut of immediate damage, r	ly. No

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								
Maximum	specified o	charging voltag	e (V)	14 14	: 4.2	at at s	_		
Maximum	specified o	charging currer	nt (A)		: 0.11	: 0.11			
Highest sp	ighest specified charging temperature (°C)								
Lowest sp	ecified cha	arging tempera	ture (°C)		: 0	me m			
Battery		Operating		t	Observat	ion			
manufactu	rer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)				
Lowest spe	ecified cha	rging temperat	ure: 0°C	CLIER WILL	ie while w	or my me	2/1		
Nori Lithiu 014539	m /	Normal	4.20	O LIE	Battery temperature:	The battery charging	ing circuit		

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U. au		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
" Cales	24, 24, 27	L TEN TEN LITE OUT JAIL	"Me "Me.

A St	CENT TEN	LITER RETER	The The	0°C	
	Abnormal-		A 10	- Jak J	The mile wall of
	Single fault –	Charles of	VII 415.	1/11 - 1/11	- 1 1 1
Highest specified cha	arging tempera	ture: 62°C	at Jet	LITER RUTER	WITE WILL WILL WILL
Nori Lithium / 014539	Normal	4.20	0	Battery temperature: 62°C	The battery charging circuit stop charging
	Abnormal-	nr nr		* * *	Cot Tex Tex Will William
	Single fault –	LET - LET	WITE WIT	with an	- 4/2 4/1 4/1

Supplementary information:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A							
Output Circuit	Condition	U _{oc} (V)	Time (s)	$I_{sc}(A)$		S (VA)		
	Condition	O _{oc} (V)	Tille (S)	Meas.	Limit	Meas.	Limit	
- 14			2 10 - 10	-7/1	70,	L - H	, (*	
Supplemen	tary Information:							

SC = short circuit, OC = open circuit

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est un			N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
LET LET	TEX.	LIER MITE	Mirry.	71°	20, 2n	at the title of
Supplementa	ary informati	on:				
et et	SEE S	TET WITE	لاري ما	- 40	. 42.	a state of the

T.6, T.9	ABLE: Impa	ct test					N/A	
Location/Part Material		Thickness (mm) Heigh (mm			Obs	Observation		
White white	MUT. M	2/1	- d-	set set	TEK	NITER INLT	" WILL M	
Supplementa	ry information	:						
I'm NILL	ant me	2111	.t	et et	TEN.	LIE WLIE	aller with	

T.7	TABLE: Drop	test		· Let let liet with any	P
Location/Par	rt Material	Thickness (mm)	Height (mm)	Observation	



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The Maria	Mr. Mar. My.	EN IEC 62368-1	All Chile
Clause	Requirement – Test	Result – Remark	Verdict

- Francisco	Disatis	15	100	O No domonio	l b	15. 14.	70.			
Enclosure	Plastic	1.5	100	0 No damaged	i, no nazard.	it it	11			
Supplementary information:										
4 2	alt :	THE STEE	Carrie and	20, 20,	~		14 1			

T.8 TABLE: Stress relief test								
Location/Part Material		Thickness (mm) Oven Temperatur e (°C)		Duration (h)	Observation			
21, 21,	, ,,		EX RITER	INLIE WY	IL MULL	Mer	n.	14
Supplementa	ry information:							
8/1. On		+ 2+ 2t	- LIEF O	LIFE WALL	W. C.	Me	211	10, 0

X	an-	TABLE: Alternat	ABLE: Alternative method for determining minimum clearances distances								
5	Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measur (mn						
,	j.	TEK STEK AS	MITE WILL WAL	M. W. A.	N .0	- TEN					
Su	Supplementary information:										
	et d		11/1 1		et et	TEX J					



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Ġ	C. MUT.	The The All the	EN IEC 62368-1	TEX INTIES WILLER WA	211	211
	Clause	Requirement – Test	Mr. M. M.	Result – Remark	jt . 1	Verdict

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹	
Plastic enclosure	Shenzhen Guo-link Technology Co.,Ltd.	PVC water water	Min. Thickness 1.5mm, passed the Glow- Wire test at 550 °C according to IEC 60695-2-11	TEK LIEK	Test with equipment	
Battery	Huizhou Norei Lithium Energy Technology Co., Ltd.	014539	3.7V, 110mAh, 0.407Wh	IEC 62133- 2:2017	Report No.: RKEYS2501 14003	
PCB	Xinfeng Huihe Circuits Co Ltd	hh02g4	V-0, 130°C	UL 796	ULTER WIT	

Supplementary information:

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



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Figure 1



Figure 2



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Figure 3



Figure 4



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Figure 5

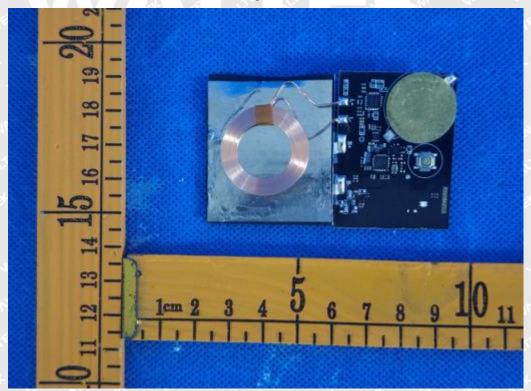


Figure 6



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Photo Documentation

Reference No.: WTF25D06171341Y

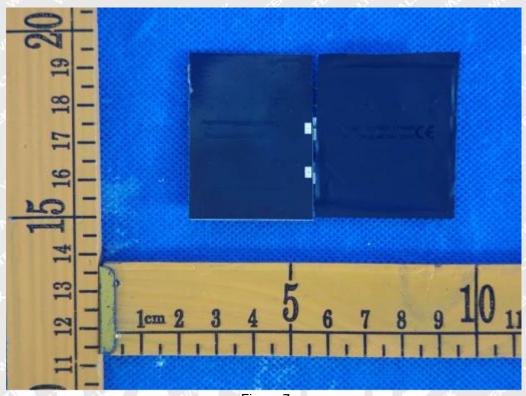


Figure 7

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