



TEST REPORT

Report No	:	WTF22D12245045Y
Applicant	sal	Mid Ocean Brands B.V.
Address	÷	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	÷	111033
Address	9	This which when the set set set state much
Product	÷	A4 portfolio with power charging
Model(s)	:5	MO9401
Total pages	:	77 pages and 5 pages of photo.
Standards	s.	⊠ IEC 62368-1: 2018
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample	×	2022-12-06
Date of Test	:	2022-12-06 to 2023-02-28
Date of Issue	÷	2023-02-28
Test Result	7	Pass if it is an in the second second

Remarks:

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

Prepared By: Waltek Testing Group Co., Ltd.

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Test item description	4 portfolio with power charging		
Trade Mark(s)	10B At the set of the set of the		
Model/Type reference	109401		
the ret ret with with with	Input: 5Vdc,2.0A (Supplied by Type-C port) USB output: 5Vdc, 2.1A; Wireless output: 5Vdc, 1.0A, Max.5W Capacity: 4000mAh /14.8Wh		
Remark: Whether parts of tests for the product have be Yes If Yes, list the related test items and lab inform Test items: Lab information:	🛛 No		
Summary of testing:	when we are the set of the		
Tests performed (name of test and test cla	use): Testing location:		
- EN IEC 62368-1:2020+A11:2020 The submitted samples were found to complerequirements of above specification.	with the No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China		
abaakad			
checked. The product fulfils the requirements of El 1:2020+A11:2020.	I IEC 62368-1:2020+A11:2020 and BS EN IEC 62368-		
☑ The product fulfils the requirements of El	State and the state with all		
 The product fulfils the requirements of El 1:2020+A11:2020. Use of uncertainty of measurement for de No decision rule is specified by the IEC s applicable limit according to the specification 	State of the state of the state of the state		
 The product fulfils the requirements of El 1:2020+A11:2020. Use of uncertainty of measurement for de Section and the specified by the IEC section applicable limit according to the specification without applying the measurement uncertain "accuracy method"). 	cisions on conformity (decision rule) : andard, when comparing the measurement result with the in that standard. The decisions on conformity are made		
 The product fulfils the requirements of El 1:2020+A11:2020. Use of uncertainty of measurement for de Section applicable limit according to the specification without applying the measurement uncertain "accuracy method"). Other: (to be specified, for example when 	cisions on conformity (decision rule) : candard, when comparing the measurement result with the in that standard. The decisions on conformity are made y ("simple acceptance" decision rule, previously known as		
 The product fulfils the requirements of El 1:2020+A11:2020. Use of uncertainty of measurement for de No decision rule is specified by the IEC s applicable limit according to the specification without applying the measurement uncertain "accuracy method"). Other: (to be specified, for example when requirements apply) Information on uncertainty of measurement: The uncertainties of measurement are calculated by the calculated by the uncertainties of measurement are calculated by the uncertainties of measurement ar	cisions on conformity (decision rule) : candard, when comparing the measurement result with the in that standard. The decisions on conformity are made y ("simple acceptance" decision rule, previously known as required by the standard or client, or if national accreditation		
 The product fulfils the requirements of El 1:2020+A11:2020. Use of uncertainty of measurement for de Secondary Secondary	cisions on conformity (decision rule) : candard, when comparing the measurement result with the in that standard. The decisions on conformity are made y ("simple acceptance" decision rule, previously known as		



Copy of marking plate:

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



Input: DC 5V- 2A Output: DC 5 V=2.1A(wired) Capacity: 4000mAh/14.8Wh Wireless charger: Frequency range: 100-200 kHz Wireless Output power: 5W Max. Output: DC 5V- 1A(wireless)



MOB/MO9401 PO BOX 644 6710 BP (NL) PO041-111542 Made in China

Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which don't 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:	street white white white white and and
Product group:	end product built-in component
Classification of use by	☑ Ordinary person ☑ Children likely present
	Instructed person
	Skilled person
Supply connection:	AC mains DC mains
	☐ not mains connected:
Standard and the state outper south month	\boxtimes ES1 \square ES2 \square ES3
Supply tolerance:	 □ +10%/-10% □ +20%/-15%
	□ +_%/%
	⊠ None
Supply connection – type:	pluggable equipment type A -
ALL WIT WIT AND AND AND	non-detachable supply cord
	appliance coupler
	direct plug-in
	D pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	permanent connection
Considered current rating of protostive device	 mating connector in other: not Mains connected UK: 13 A; Others: 16 A
Considered current rating of protective device	Location: building equipment
	⊠ N/A
Equipment mobility:	movable hand-held I transportable
	direct plug-in stationary for building-in
	 wall/ceiling-mounted SRME/rack-mounted other:
Overvoltage category (OVC)	
	□ OVC IV ⊠ other: not Mains connected
Class of equipment:	Class I Class II Class II
and what what what winds which which	Not classified
Special installation location:	 N/A □ restricted access area outdoor location □
Pollution degree (PD)	□ PD 1
Manufacturer's specified T _{ma}	35°C Outdoor: minimum °C
IP protection class	⊠ IPX0 □ IP
Power systems	TN TT ITV
at the the will write with a	⊠ 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):	0.511kg



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Possible test case verdicts:	+ street miles miles while and and an
- 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:	LIFE MALL WALL WITH WITH AND
Date of receipt of test item	2022-12-06
Date (s) of performance of tests	2022-12-06 to 2023-02-28
General remarks:	WIT THE A A A A A
"(see Enclosure #)" refers to additional information "(see appended table)" refers to a table appended	
Throughout this report a 🗌 comma / 🛛 poir	nt is used as the decimal separator.
General Product Information:	with the state of the test
Product Description:	et alter alter wait wat was and a
 The EUT covered by this report is a A4 portfolio Audio/video apparatus. It is supplied by externa port supply. 	o with power charging used as information and al power supply or by internal lithium ion Cells or Type C
2. The manufacturer specified maximum ambient including 2000 m above sea level.	temperature is 35°C. The specified altitude is up to and
3. All circuits complied with ES1 and PS2, no othe	er circuit existed.
Model Differences N/A	the street of the street street and
Additional application considerations – N/A	White white white white white white white



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N

Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All internal circuit	Ordinary	N/A	N/A N/A	N/A ~
ES1: Lithium Cell output	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2: >15 Watt circuits, <100 Watt circuits (Lithium Cells output)	Barriers	See 6.3	See 6.4.5	N/A
PS1: <15 Watt circuits	РСВ	N/A	N/A	N/A
PS1: <15 Watt circuits	The other components/materials	N/A	N/A	N/A
7	Injury caused by hazardous	ssubstances		
Class and Energy Source	Body Part (e.g., Skilled)	Safeguards		
(e.g. Ozone)		В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners of enclosure	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part (e.g., Ordinary)		Safeguards	
(e.g. TS1: Keyboard caps)		В	S	R
TS1: External enclosure surfaces	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				
NUTER WAITER WAITER WAITER WAITER WAITER WAITER WAITER	when when	whet white white a		
🛛 ES 🛛 PS 🖂 MS	🖂 TS	🖂 RS		
See details in OVERVIEW OF ENERGY SOU	RCES AND SAFE	GUARDS		



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	and the second		
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2	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	P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	P
4.4.3.1	General	Mr. W. W.	Р
4.4.3.2	Steady force tests	(See Annex T.2 and T.4).	JUP.
4.4.3.3	Drop tests	(See Annex T.7)	P
4.4.3.4	Impact tests	NUTE WALL WALL WALL	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
đ	Glass impact test (1J)	Jun In	N/A
were a	Push/pull test (10 N)	INVIEW WALTE WALT WALT	√°Ň/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	, «́Р
4.4.3.9	Air comprising a safeguard	No such air comprising a safeguard	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.3,4.4.3.8 no safeguard damaged.	P
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	INTER WALTER WALTER WALTER	P
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	Ster P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
WALL V	No harm by explosion during single fault conditions	(See Clause B.4)	_∿°P
4.6	Fixing of conductors	See below	P
inter an	Fix conductors not to defeat a safeguard	Internal wires are routed and secured so that adequate insulation are maintained.	P
t st	Compliance is checked by test	(See Clause T.2)	P
4.7	Equipment for direct insertion into mains socket	-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):	until sunt sunt sur	N/A
4.8	Equipment containing coin/button cell batteries	the state of the state	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard:	m m m	N/A
4.8.3	Battery compartment door/cover construction	white white white white	N/A
At	Open torque test	in it it lit	N/A
4.8.4.2	Stress relief test	NUTE WALL WALL WALL	N/A
4.8.4.3	Battery replacement test	at let let the	N/A
4.8.4.4	Drop test	when the me and so	N/A
4.8.4.5	Impact test	The super must will white	N/A
4.8.4.6	Crush test	when when the set	N/A
4.8.5	Compliance	WITE WALTE WALTE WALTE	_∿″Ñ/A
de la	30N force test with test probe	a at at at	N/A
e. w	20N force test with test hook	the main wat was a	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	P
4.10	Component requirements	when when we are	N/A
4.10.1	Disconnect Device	the write outer white	N/A
4.10.2	Switches and relays	The second second	N/A



Verdict

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Clause	Requirement + Test	Result - Re

Remark	
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1.50	10			~	_

5	ELECTRICALLY-CAUSED INJURY		
5.2	Classification and limits of electrical energy sour	ces	P
5.2.2	ES1, ES2 and ES3 limits	at at at the	с ^{ор} Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Ρ
5.2.2.3	Capacitance limits	No such capacitance	N/A
5.2.2.4	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals	No means for connection to telephone network and no ringing signal generated	N/A
5.2.2.7	Audio signals	of the the with the	N/A
5.3	Protection against electrical energy sources	Mr. M. M. A.	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See only 4.3 and 5.3 to 5.5 which applies to protection between the accessible parts and hazardous parts of other circuits.	WP Miller
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	set after street of	ν. Έ.Ν
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	and the state of the	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed for this product	P
at the second se	Accessibility to outdoor equipment bare parts	Mr. Wr. M. W.	N/A
5.3.2.2	Contact requirements	See below	л ^{ор} Р ,
itet ownite	Test with test probe from Annex V	The test probe cannot contact with the bare internal conductive part.	-
5.3.2.2 a)	Air gap – electric strength test potential (V)	No such air gap	N/A
5.3.2.2 b)	Air gap – distance (mm)	No such air gap	N/A
5.3.2.3	Compliance	stet stift atter white	P
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	NUTER MUTER WALT WALT V	р р «
5.4.1.2	Properties of insulating material	e at at at a	N/A
5.4.1.3	Material is non-hygroscopic	S white white where whe	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:	a de de de	N/A



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mr 1	and the state of the state	white white white a	We alle	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	whet while white son	N/A	
5.4.1.5.3	Thermal cycling test		N/A	
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	No such circuit	N/A	
5.4.1.8	Determination of working voltage	white white white	N/A	
5.4.1.9	Insulating surfaces	tet tet stat	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	and the states and	N/A	
5.4.1.10.2	Vicat test	- m. m. m	N/A	
5.4.1.10.3	Ball pressure test	et ster ater spire	N/A	
5.4.2	Clearances	the state	N/A	
5.4.2.1	General requirements	INTE WATE WATE	N/A	
NUTER NU	Clearances in circuits connected to AC Mains, Alternative method	suret intret intil you	N/A	
5.4.2.2	Procedure 1 for determining clearance		N/A	
- W	Temporary overvoltage	and which which		
5.4.2.3	Procedure 2 for determining clearance		N/A	
5.4.2.3.2.2	a.c. mains transient voltage	m. m. m.		
5.4.2.3.2.3	d.c. mains transient voltage	ALTER ALTER MALTER AN	N ¹⁶ -	
5.4.2.3.2.4	External circuit transient voltage	a state	d -	
5.4.2.3.2.5	Transient voltage determined by measurement:	NUTER WALTE WATER WATER		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Set while while while	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	whilet whilet whilet	N/A	
5.4.2.6	Clearance measurement:	at let let	N/A	
5.4.3	Creepage distances	NUT MUT MUT M	N/A	
5.4.3.1	General	Tet Jet with mit	N/A	
5.4.3.3	Material group:	Shir all sh	_	
5.4.3.4	Creepage distances measurement	at miner while white	N/A	
5.4.4	Solid insulation	at at at	N/A	
5.4.4.1	General requirements	WINTER WINTER WITTER	N/A	
5.4.4.2	Minimum distance through insulation	at the lite	N/A	



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Clause	Requirement + Test	Result - Remark	Verdic
some -	Mi W The state of the state	white white white white	an.
5.4.4.3	Insulating compound forming solid insulation	the state of the	N/A
5.4.4.4	Solid insulation in semiconductor devices	NUTE WALL WALL WALL	N/A
5.4.4.5	Insulating compound forming cemented joints	at let set set	N/A
5.4.4.6	Thin sheet material	and the sur a	N/A
5.4.4.6.1	General requirements	t with writer multiple and	N/A
5.4.4.6.2	Separable thin sheet material	Mr. In Mr.	N/A
when w	Number of layers (pcs)	with out on the wait	N/A
5.4.4.6.3	Non-separable thin sheet material	No non-separable thin sheet	N/A
ter an	Number of layers (pcs)	WITER WALTER WALTE WALT	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	et maret mailet mailet w	N/A
5.4.4.6.5	Mandrel test	that the s	N/A
5.4.4.7	Solid insulation in wound components	white which white white	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	MUEL WALTER WALTER WALTER	N/A
NUTER WALT	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	att whitet whitet a	N/A
5.4.5	Antenna terminal insulation	No such antenna terminal used.	N/A
5.4.5.1	General	at not set with	N/A
5.4.5.2	Voltage surge test	Mart War war	N/A
5.4.5.3	Insulation resistance (MΩ)	ret the wret whet	N/A
at a	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	In white white white w	N/A
5.4.7	Tests for semiconductor components and for cemented joints	white white white white	N/A
5.4.8	Humidity conditioning	stick with which which	N/A
itien whi	Relative humidity (%), temperature (°C), duration (h)	The wire wire white	-
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:	and and an and an	N/A
5.4.9.2	Test procedure for routine test	the state of the	N/A
5.4.10	Safeguards against transient voltages from external circuits	No such external circuits	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
Jun 1	at an at the state state	white white white white	m
5.4.10.1	Parts and circuits separated from external circuits	and the state	N/A
5.4.10.2	Test methods	NUTE WALT WALT WAT	N/A
5.4.10.2.1	General	at all set set set	N/A
5.4.10.2.2	Impulse test	in more mer mer s	N/A
5.4.10.2.3	Steady-state test	t with with which whi	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	when we write and	N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements	the set set of	N/A
a state of	SPDs bridge separation between external circuit and earth	white white white white	N/A
In m	Rated operating voltage U _{op} (V):	white white all all all a	
LIE WALT	Nominal voltage U _{peak} (V):	ALTER MATER	
t it	Max increase due to variation ΔU_{sp} :		
Man	Max increase due to ageing ΔU_{sa}	mark while while wh	°
5.4.11.3	Test method and compliance	at at at at	N/A
5.4.12	Insulating liquid	No such liquid	N/A
5.4.12.1	General requirements	ret stat stat with	N/A
5.4.12.2	Electric strength of an insulating liquid:	a way way and	N/A
5.4.12.3	Compatibility of an insulating liquid	let allet antice while w	N/A
5.4.12.4	Container for insulating liquid:	s at at a	N/A
5.5	Components as safeguards	while while whe whe	N/A
5.5.1	General	at all set se	N/A
5.5.2	Capacitors and RC units	nut my my with	N/A
5.5.2.1	General requirement	Tex whet while while	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	at white white white	N/A
5.5.3	Transformers	THE THE ACCESS	N/A
5.5.4	Optocouplers	while while while whi	N/A
5.5.5	Relays	No such relays used	N/A



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5.5.6	Resistors	N/A
5.5.7	SPDs	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	N/A
100	RCD rated residual operating current (mA)	
5.6	Protective conductor	N/A
5.6.2	Requirement for protective conductors	N/A
5.6.2.1	General requirements	N/A
5.6.2.2	Colour of insulation	N/A
5.6.3	Requirement for protective earthing conductors	N/A
* Just	Protective earthing conductor size (mm ²)	
J. LEK	Protective earthing conductor serving as a reinforced safeguard	N/A
and a	Protective earthing conductor serving as a double safeguard	N/A
5.6.4	Requirements for protective bonding conductors	N/A
5.6.4.1	Protective bonding conductors	N/A
. A	Protective bonding conductor size (mm ²)	- 1
5.6.4.2	Protective current rating (A):	<u>م</u> کې د N/A
5.6.5	Terminals for protective conductors	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	N/A
er sult	Terminal size for connecting protective bonding conductors (mm):	N/A
5.6.5.2	Corrosion	N/A
5.6.6	Resistance of the protective bonding system	N/A
5.6.6.1	Requirements	N/A
5.6.6.2	Test Method	N/A
5.6.6.3	Resistance (Ω) or voltage drop:	N/A
5.6.7	Reliable connection of a protective earthing conductor	N/A
5.6.8	Functional earthing	N/A
A	Conductor size (mm ²)	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
			· · · · · · · · · · · · · · · · · · ·

	Class II with functional earthing marking	the state of the	N/A
me u	Appliance inlet cl & cr (mm)	NUTE WALTE WALT WALT	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	≪N/A
5.7.2	Measuring devices and networks	its when we we we	N/A
5.7.2.1	Measurement of touch current	et stat strat wiret with	N/A
5.7.2.2	Measurement of voltage	the second second	N/A
5.7.3	Equipment set-up, supply connections and earth connections	anifet white white and	N/A
5.7.4 🔊	Unearthed accessible parts	with with white white w	N/A
5.7.5	Earthed accessible conductive parts:	i s at at	_∕N/A
5.7.6	Requirements when touch current exceeds ES2 limits	Not exceeds ES2	N/A
m	Protective conductor current (mA):	white white white white	N/A
Set .	Instructional Safeguard:	at at the set	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	No such connection to external circuits.	N/A
5.7.7.1	Touch current from coaxial cables	the the the	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	The substance which white white	N/A
5.7.8	Summation of touch currents from external circuits	Not such equipment	N/A
NITES	a) Equipment connected to earthed external circuits, current (mA):	when when the state	N/A
5 ⁶⁴	b) Equipment connected to unearthed external circuits, current (mA)	at all all suit	N/A
5.8	Backfeed safeguard in battery backed up supplie	es and an an a	N/A
MALTE	Mains terminal ES	No battery used	N/A
4	Air gap (mm)	The the to be	N/A

6	ELECTRICALLY- CAUSED FIRE		_≪P
6.2	Classification of PS and PIS	mit whit was war a	Р
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)	PAL VALIE

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Clause	Requirement + Test	Result - Remark	Verdic
WINT	NIT WE STORE THE	NITE MITE WATE	- mar
6.2.3	Classification of potential ignition sources	See the following details.	P
6.2.3.1	Arcing PIS	NUTE WALTE WALT WALT	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	S ^{er} P ,
6.3	Safeguards against fire under normal operating a conditions	nd 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)	P
A 1	Combustible materials outside fire enclosure:	No such parts	N/A
6.4	Safeguards against fire under single fault condition	ons with all on the set	E €
6.4.1	Safeguard method	Control fire spread, evaluation by Clause 6.4.4, 6.4.5, 6.4.6	P P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	Tet whet must anytek	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	at an aret multit	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions	MITE WALTE WALTE WAL	N/A
- Let	Special conditions for temperature limited by fuse	a at at at	N/A
6.4.4	Control of fire spread in PS1 circuits	WALTER MALE WALL WALL	<i>√</i> [™] P
6.4.5	Control of fire spread in PS2 circuits	See 6.4.6	_√ P
	Supplementary safeguards	 Compliance detailed as follows: <u>Printed board</u>: rated V-0 <u>Internal wires</u>: complying with UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21. <u>All other components</u>: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying with relevant IEC standard. Fire barriers used 	
6.4.6	Control of fire spread in PS3 circuits	111 111 111 11	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
- m	No we we also the state	and the and a shirt water	an.
6.4.7	Separation of combustible materials from a PIS	See below	N/A
6.4.7.2	Separation by distance	NUT WALL WALL WALL	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	Р
6.4.8.2	Fire enclosure and fire barrier material properties	t stret stret miret and	N/A
6.4.8.2.1	Requirements for a fire barrier	with the state	Р
6.4.8.2.2	Requirements for a fire enclosure	NUTER INTER MUTE WANT	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	tret ouret antret antret	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	i i it it i	N/A
6.4.8.3.2	Fire barrier dimensions	No fire barrier used.	N/A
6.4.8.3.3	Top openings and properties	at the set of	N/A
- San	Openings dimensions (mm)	No opening	N/A
6.4.8.3.4	Bottom openings and properties	the the when when	N/A
A	Openings dimensions (mm):	No bottom openings	N/A
here whe	Flammability tests for the bottom of a fire enclosure	at anti-	N/A
et de	Instructional Safeguard:		⊘ [⊥] N/A
6.4.8.3.5	Side openings and properties	white white white white	N/A
Tet	Openings dimensions (mm):	Separated from a PIS	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	at the state state	N/A
6.4.9	Flammability of insulating liquid:	where the and an	N/A
6.5	Internal and external wiring	* stet stet whet whet	Р
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	Per-
6.5.2	Requirements for interconnection to building wiring	A NUTER WITH WALLER WAL	N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:	i shat sh	N/A
6.6	Safeguards against fire due to the connection to	additional equipment	~ ¹ P

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Clause	Requirement + Test	Result - Remark	Verdict

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
in and	Personal safeguards and instructions	× _
7.5	Use of instructional safeguards and instructions	N/A
WILL	Instructional safeguard (ISO 7010):	_
7.6	Batteries and their protection circuits	P

8	MECHANICALLY-CAUSED INJURY		P
8.2	Mechanical energy source classifications	e at at at a	P
8.3	Safeguards against mechanical energy sources	white white white white	Р
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards	We we we we	Р
HIT WALL	Instructional Safeguard	MS1: Edges and corners of enclosure	P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts	at the state of the	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No move parts	N/A
Tet NTE	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
	Moving MS3 parts only accessible to skilled person	which which we we	N/A
8.5.2	Instructional safeguard:	- itek itek attek an	N/A
8.5.4	Special categories of equipment containing moving parts	with the state with	N/A
8.5.4.1	General	her we so in	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	set with miter white	N/A
8.5.4.2.1	Protection of persons in the work cell	No and the	N/A
8.5.4.2.2	Access protection override	at white white white wh	N/A
8.5.4.2.2.1	Override system	the state of	N/A
8.5.4.2.2.2	Visual indicator	MILL WAL WAL WIT	N/A
8.5.4.2.3	Emergency stop system	at at at at	N/A



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Clause	Requirement + Test	Result - Remark	Verdict

INTEX NO	Maximum stopping distance from the point of activation (m)	the state state without	N/A
51 ⁴	Space between end point and nearest fixed mechanical part (mm):	at the set set	N/A
8.5.4.2.4	Endurance requirements	in mer were me in	N/A
er white	Mechanical system subjected to 100 000 cycles of operation	- water water water water	N/A
J.T.E.K.	- Mechanical function check and visual inspection	at the set of	N/A
20 2	- Cable assembly	MUT. MUT. MUT. MI	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	LIEK WALTER WALTER WALTER	N/A
8.5.4.3.1	Equipment safeguards	et set site miles w	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	When the second	N/A
8.5.4.3.3	Disconnection from the supply	NUTER WALTER WALTE WALT	N/A
8.5.4.3.4	Cut type and test force (N)	the total	N/A
8.5.4.3.5	Compliance	until water water water	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
	Explosion test	2 Mr. m. n.	N/A
8.5.5.3	Glass particles dimensions (mm)	e are allow mare and	N/A
8.6	Stability of equipment	W W A	N/A
8.6.1	General	MITER MATER WALT WALT	N/A
Set .	Instructional safeguard:	a at at at	
8.6.2	Static stability	white white white white a	N/A
8.6.2.2	Static stability test:	et tet tet stet stet is	N/A
8.6.2.3	Downward force test	me m m	N/A
8.6.3	Relocation stability	NUTER INLITE WALTE WALT	N/A
de	Wheels diameter (mm):	i stat st	
m m	Tilt test	intre-white white white	N/A
8.6.4	Glass slide test	at let let the	N/A
8.6.5	Horizontal force test	in which which will a	N/A
8.7	Equipment mounted to wall, ceiling or other struct	ture the the state of	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	MITER MAITER MALIE MALI	N/A
A	Test 1, additional downwards force (N)		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
de	the the second	a set set at at at at	an .

NUTEK UN	Test 2, number of attachment points and test force (N)	the tak stak stak	N/A
inet and	Test 3 Nominal diameter (mm) and applied torque (Nm)	all the state state with	N/A
8.8	Handles strength	the super su	N/A
8.8.1	General	et instret instret would wo	N/A
8.8.2	Handle strength test	a at at a	N/A
242 1	Number of handles	white white white white	_
NUTER IN	Force applied (N)	let let uter when	NUT .
8.9	Wheels or casters attachment requirements	in a sure with the	N/A
8.9.2	Pull test	1st whet while while w	N/A
8.10	Carts, stands and similar carriers		< N/A<
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	NUTER INTER WALTE WALT	s/N/A
8.10.3	Cart, stand or carrier loading test		N/A
er ner	Loading force applied (N)	and white white	N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	me m m m	N/A
MALTER	Force applied (N)	- with with white white	Mr.
8.10.6	Thermoplastic temperature stability	and the set of	N/A
8.11 🖋	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A
8.11.1	General	No such parts	< ^N /A
8.11.2	Requirements for slide rails	it wat wat way a	N/A
MALTER	Instructional Safeguard	et is the all the multitude	N/A
8.11.3	Mechanical strength test	The the second	N/A
8,11.3.1	Downward force test, force (N) applied:	WITER WALTER WALTE WALT	_Ä/A
8.11.3.2	Lateral push force test	a at at at	N/A
8.11.3.3	Integrity of slide rail end stops	pert white white white	N/A ^S
8.11.4	Compliance	at the the states	N/A
8.12	Telescoping or rod antennas	, my my m m	N/A
NUT	Button/ball diameter (mm)	No such parts	_

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Clause	Requirement + Test	Result - Remark	Verdict

9 🦽	THERMAL BURN INJURY	in in the state	P
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits	a state of the	́Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	See B.1.6 & B.2.3	Р
9.4	Safeguards against thermal energy sources	at the set with with	Р
9.5	Requirements for safeguards	into any and any any	Р
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	rst nite nit white white	W P
9.6.1	General	No wireless power transmitters	_S [¢] P
9.6.2	Specification of the foreign objects	the start with a	Р
9.6.3	Test method and compliance	: See table 9.6	° P.√

10	RADIATION		P
10.2	Radiation energy source classification		Р
10.2.1 📣	General classification	See below	л ^{ус} Р <
de s	Lasers	in the state	
ex white	Lamps and lamp systems	.: RS1: LED only for indicating use which is considered as low power application.	
dit.	Image projectors	······································	
mer 1	X-Ray	in the method water water	
Jult in	Personal music player	It let get get	
10.3	Safeguards against laser radiation	white white white white a	N/A
TE WALT	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lam LED types)	ps and lamp systems (including	P
10.4.1	General requirements	LED indication light: Classed	P



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Clause	Requirement + Test	Result - Remark	Verdict

	tet stet state must will work with	as RS1 (Exempt Group)	* st
me m	Instructional safeguard provided for accessible radiation level needs to exceed	ALTER WALTE WALT WAL	N/A
in me	Risk group marking and location:	white white white white	N/A
et det	Information for safe operation and installation	the state	N/A
10.4.2	Requirements for enclosures	MALIE WALL WALL W	N/A
S.S.E.	UV radiation exposure	at the set of	N/A
10.4.3	Instructional safeguard	me m m	N/A
10.5	Safeguards against X-radiation	and all other outer white	N/A
10.5.1	Requirements	No X-radiation	N/A
in man	Instructional safeguard for skilled persons	Tel white white white	en. —
10.5.3	Maximum radiation (pA/kg):	the state	<u> </u>
10.6	Safeguards against acoustic energy sources	white white white wi	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	the all all an	N/A
in whi	Acoustic output <i>L</i> _{Aeq,T} , dB(A):	.et	N/A
8 . D	Unweighted RMS output voltage (mV)		N/A
- mar	Digital output signal (dBFS)	White white white out o	N/A
10.6.3	Requirements for dose-based systems	et set set	N/A
10.6.3.1	General requirements	mr. we we we	N/A
10.6.3.2	Dose-based warning and automatic decrease	TEX STER MITER WHITE	N/A
10.6.3.3	Exposure-based warning and requirements	in the second	N/A
n mr	30 s integrated exposure level (MEL30):	ret mile while while	M/A
* Set	Warning for MEL ≥ 100 dB(A):	A A A	N/A
10.6.4	Measurement methods	ment ment mer m	N/A
10.6.5	Protection of persons	at the set of	N/A
en e	Instructional safeguards:	me me me	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	LIEX WALTER WAITE WALTE	N/A
10.6.6.1	Corded listening devices with analogue input	set whet whet white	N/A
- At	Listening device input voltage (mV):	she was	N/A
10.6.6.2	Corded listening devices with digital input	Interest white white wh	N/A
đ	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	1 A A A	N/A



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Clause	Requirement + Test	NUTE WALL WAL	Result - Remark	Verdict
de	an an a	1 1 A	ister with out white	me m

10.6.6.3	Cordless listening devices	and the state	N/A
me m	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	NUTER WALT WALT WALT	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P Jr
B.1	the set of		Р
B.1.5			Р
B.2	Normal operating conditions	me me me e	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	р ¹² Р "уг
ine main	Audio Amplifiers and equipment with audio amplifiers	No audio amplifiers	N/A
B.2.3	Supply voltage and tolerances	I THE NUTER MUTER MAIN	Р
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	NUTER INTER WALTE WALT	« ^р Р «
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	a land and a	N/A
IEK WALTE	Instructional safeguard:	Instructional safeguard is not required.	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 voltage selector used.	N/A
B.3.5	Maximum load at output terminals	ster wifer mile white	µ ⁰ P √/
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	VER INTE MUT WALL W	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	PLIER
B.4	Simulated single fault conditions	the state of the	Р
B.4.1	General	white white white white	P
B.4.2	Temperature controlling device	(See appended table B.4)	P. P
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	S P



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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)	LI CAP
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	Tet P
B.4.9	Battery charging and discharging under single fault conditions	(See appended table B.4)	P P
C 🖉	UV RADIATION		N/A
Ç.1	Protection of materials in equipment from UV radiation		≪ [™] N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
Ç.1.3 🧹	Test method		N/A
C.2	UV light conditioning test	white white white white	N/A
C.2.1	Test apparatus	at at and and	N/A
C.2.2	Mounting of test samples	Mr. Mr. M. M.	N/A
C.2.3	Carbon-arc light-exposure test	with with white white	N/A
C.2.4	Xenon-arc light-exposure test	i s at at	N/A
D w.	TEST GENERATORS	LIES WALTE WALL WALL WA	N/A
D.1	Impulse test generators	L 14 14 14 15	N/A
D.2	Antenna interface test generator	white white white with	N/A
D.3	Electronic pulse generator	THE STAR NUMBER WITH	N/A
Ē	TEST CONDITIONS FOR EQUIPMENT CONTAININ	NG AUDIO AMPLIFIERS	N/A
E.1 📣	Electrical energy source classification for audio	signals	N/A
et de	Maximum non-clipped output power (W):	i at at at	(t
m	Rated load impedance (Ω)	while while while wh	
NUE	Open-circuit output voltage (V):	the set set as	- AL
	Instructional safeguard:	Mr. mr. mr. m.	
E.2	Audio amplifier normal operating conditions	the the she and	N/A



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See when		EN IEC 62368-1		the write write
Clause	Requirement + Test	the water war with	Result - Remark	Verdict

sur .	and the second	white white white white	m
	Audio signal source type:	and the state	- All
me m	Audio output power (W)	INTE WALT WITH WAT	m
all al	Audio output voltage (V)	at at the set	15 ⁶¹ -15
	Rated load impedance (Ω)	me me me	
annun a	Requirements for temperature measurement	et whet whet white white	N/A
E.3	Audio amplifier abnormal operating conditions	st at at	N/A
For v	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P
F.1 🔊	General	MITER MATTER MALIE MALIE V	v ه م
1 ⁴⁴ . 1 ⁴	Language	English, German	5 ⁴⁴
F.2	Letter symbols and graphical symbols	a which whic	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3	Equipment markings	the state what white white	P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	Per
F.3.2	Equipment identification markings	See below for details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	JE P
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	a state state	N/A
F.3.3.2	Equipment without direct connection to mains	white white white white	√ [™] P
F.3.3.3	Nature of the supply voltage:	IEC 60417-5032 for a.c. symbol used.	N ^{LIK} P
F.3.3.4	Rated voltage	See copy of marking plate.	P
F.3.3.5	Rated frequency	white and and an	N/A
F.3.3.6	Rated current or rated power	See copy of marking plate.	P



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Clause Requirement + Test	Result - Remark	Verdict
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F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	MUTE WALTE WALT WALT	en P
F.3.5.1	Mains appliance outlet and socket-outlet markings	Marked near socket-outlet	LT P
F.3.5.2	Switch position identification marking	a state of	⊘⊢ N/A
F.3.5.3	Replacement fuse identification and rating markings:	No replacement fuse used.	N/A
when w	Instructional safeguards for neutral fuse:	white white white white	N/A
F.3.5.4	Replacement battery identification marking	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	Marking is not placed on screws.	P P
F.3.6	Equipment markings related to equipment classification	No classification	N/A
F.3.6.1	Class I equipment	a at left left	N/A
F.3.6.1.1	Protective earthing conductor terminal	untit untit wat wat	N/A
F.3.6.1.2	Protective bonding conductor terminals	at the state	N/A
F.3.6.2	Equipment class marking	2 M. W. r.	N/A
F.3.6.3	Functional earthing terminal marking	No functional earth	N/A
F.3.7	Equipment IP rating marking:	This equipment is classified as IPX0.	MILIEN
F.3.8	External power supply output marking	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	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.	
F.4	Instructions	the state	Р



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Clause	Requirement + Test	Result - Remark	Verdic
white	when when when any start start	with with white	and the contract
.t.t.	a) Information prior to installation and initial use	Provided in the manual.	, P-
anne al	b) Equipment for use in locations where children not likely to be present	NUTE WALL WALL WALL	N/A
in whi	c) Instructions for installation and interconnection	JEK NITER INLITE MALTER	N/A
et united	d) Equipment intended for use only in restricted access area	+ Tex strek wirek	N/A
	e) Equipment intended to be fastened in place	The she was	N/A
WALL V	f) Instructions for audio equipment terminals	NUTER INVIEW NATE WA	N/A
At .	g) Protective earthing used as a safeguard	a state to	N/A
in m	h) Protective conductor current exceeding ES2 limits	the main water all	N/A
mun	i) Graphic symbols used on equipment	et miles white white	N/A
+ white	j) Permanently connected equipment not provided with all-pole mains switch	The sufet outer as	N/A
Milet a	k) Replaceable components or modules providing safeguard function	with the state with	N/A
4	I) Equipment containing insulating liquid	Inter Mar Mar Mar	N/A
une one	m) Installation instructions for outdoor equipment	at white white	N/A
F.5	Instructional safeguards	- State	N/A
G and	COMPONENTS		P
G.1	Switches	the state	N/A
G.1.1	General	White white white we	N/A
G.1.2	Ratings, endurance, spacing, maximum load	let the state with	N/A
G.1.3	Test method and compliance	no who who we	N/A
G.2	Relays	TEX WIFE MUTER MUTER	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	White white white w	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	martet anartet anartet and	N/A
G.2.4	Test method and compliance	a at at all	N/A
G.3	Protective devices	NET WALL WALL WITH	N/A

01 N

N/A

N/A

No thermal cut-offs provided

within the equipment.

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G.3.1

Thermal cut-outs separately approved according to

IEC 60730 with conditions indicated in a) & b)

Thermal cut-offs



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EN IEC 62368-1

Clause	Requirement + Test	Result - Remark	Verdict
	N. W. W. W.		<u></u>

MALTER M	Thermal cut-outs tested as part of the equipment as indicated in c)	Tet stret wiret whi	N/A
G.3.1.2	Test method and compliance	the second second	N/A
G.3.2	Thermal links	No thermal links used.	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	A MALEY MALTER WALTER W	N/A
Set	b) Thermal links tested as part of the equipment	A A A .	N/A
G.3.2.2	Test method and compliance	and since and an	N/A
G.3.3	PTC thermistors	ret ret wet with	N/A
G.3.4	Overcurrent protection devices	a me m m	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	et white white white	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	watter watter watter w	N/A
G.3.5.2	Single faults conditions:	ister with with with	N/A
G.4	Connectors	Nr. M. W.	N/A
G.4.1 🔊	Spacings	white white	N/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	white white white y	N/A
G.5	Wound components	white white white wh	N/A
G.5.1	Wire insulation in wound components	A 14 14 5	N/A
G.5.1.2	Protection against mechanical stress	in me me me	N/A
G.5.2	Endurance test	let thet while miles	N/A
G.5.2.1	General test requirements	W W A	N/A
G.5.2.2	Heat run test	White white white w	N/A
Set	Test time (days per cycle)	st st set :	et the
m a	Test temperature (°C):	white white white white	
G.5.2.3	Wound components supplied from the mains	tet the the ster atte	N/A
G.5.2.4	No insulation breakdown	and the cur	N/A
G.5.3	Transformers	at suffer marks white	N/A
G.5.3.1	Compliance method:	s s	- N/A
m	Position:	White white white you	N/A
1ª	Method of protection	at at at a	N/A

17.

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N/A

N/A

N/A

at wat	EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
where .	We want the set of the set of the	white white white	An.	
G.5.3.2	Insulation	the state	N/A	
m. m	Protection from displacement of windings	MUTE MALL MALL MAN	$n_{n} - z$	
G.5.3.3	Transformer overload tests	at set set set set	N/A	
G.5.3.3.1	Test conditions	is whe whe we we	N/A	
G.5.3.3.2	Winding temperatures	et with aller white white	N/A	
G.5.3.3.3	Winding temperatures - alternative test method	m m t	N/A	
G.5.3.4	Transformers using FIW	No such FIW	_√N/A ·	
G.5.3.4.1	General	a at at at	N/A	
n m	FIW wire nominal diameter	white would woll would be		
G.5.3.4.2	Transformers with basic insulation only	at set stat when a	N/A	
G.5.3.4.3	Transformers with double insulation or reinforced insulation	which will share with	N/A	
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	which which which which which	N/A	
G.5.3.4.5	Thermal cycling test and compliance	unter when the when	N/A	
G.5.3.4.6	Partial discharge test	set outer muter	N/A S	
G.5.3.4.7	Routine test		N/A	
G.5.4	Motors	No motors used.	N/A	
G.5.4.1	General requirements	a at at all	N/A	
G.5.4.2	Motor overload test conditions	while while whe whe	N/A	
G.5.4.3	Running overload test	at the set of a state	N/A	
G.5.4.4.2	Locked-rotor overload test	her me me me	N/A	
ire whit	Test duration (days)	wet with aller and an	ton the	
G.5.4.5	Running overload test for DC motors		⊱ N/A ⊘	
G.5.4.5.2	Tested in the unit	e must white white white	N/A	
G.5.4.5.3	Alternative method	the state of the	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	White put white white	N/A	
G.5.4.6.2	Tested in the unit	alt alt whet whet	N/A	
	Maximum Temperature		N/A	
G.5.4.6.3	Alternative method	Set white white white wh	N/A	

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G.5.4.7

G.5.4.8

G.5.4.9

Motors with capacitors

Three-phase motors

Series motors

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Clause	Requirement + Test	Result - Remark	Verdic
Mr 1	Operating voltage	WALTE WALT SHALL SH	<u>n - 1</u>
G.6	Wire Insulation	itet nitet intiget	N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation	VAL ANTICE MATERIAL	N/A
G.7	Mains supply cords	at at at 5th	N/A
G.7.1	General requirements	MULT WALL WALL	N/A
NALIER	Туре	The street which all	LIE MILE
G.7.2	Cross sectional area (mm ² or AWG):	and an so	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	White white white	N/A
G.7.3.2	Cord strain relief	Tex Mailer Maile Mail	N/A
G.7.3.2.1	Requirements	at at at	N/A
	Strain relief test force (N)	min min min	N/A
G.7.3.2.2	Strain relief mechanism failure	ster strer atter so	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	N/A
G.7.3.2.4	Strain relief and cord anchorage material	The works would	N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection	when which which	N/A
G.7.5.1	Requirements	THE STAR STAR	N/A
G.7.5.2	Test method and compliance	and and any a	N/A
NUCL AND	Overall diameter or minor overall dimension, <i>D</i> (mm)	NITER WALTER WALTER WAL	unu-
in main	Radius of curvature after test (mm)	VER ALTER MUTER MALTER	men -
G.7.6	Supply wiring space	a st st	N/A
G.7.6.1	General requirements	NATE WALL WAL	N/A
G.7.6.2	Stranded wire	at let set	N/A
G.7.6.2.1	Requirements	me me me m	N/A
G.7.6.2.2	Test with 8 mm strand	TEX TEX NUTER MUT	N/A
G.8	Varistors	the the the the	N/A
G.8.1	General requirements	No varistor provided	N/A
G.8.2	Safeguards against fire	the state	N/A
G.8.2.1	General	white white she is	N/A
G.8.2.2	Varistor overload test	at at at	N/A



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Clause	Requirement + Test	Result - Remark	Verdict

G.8.2.3	Temporary overvoltage test	1 A A A	N/A
G.9	Integrated circuit (IC) current limiters	intite water water water	N/A
G.9.1	Requirements	No IC current limiter provided within the equipment.	N/A
et .5et	IC limiter output current (max. 5A):	h at at at 5	*
14	Manufacturers' defined drift	mer mer mer m	
G.9.2	Test Program	Tex the with mile	N/A
G.9.3	Compliance	Mr M W	N/A
G.10 📣	Resistors	wifet miles white white	N/A
G.10.1	General	e state for	<∕ [√] N/A
G.10.2	Conditioning	and and and an	N/A
G.10.3	Resistor test	. at the the will	N/A
G.10.4	Voltage surge test	when when when we	N/A
G.10.5	Impulse test	stret out the work would	N/A
G.10.6	Overload test	and the second s	N/A
G.11	Capacitors and RC units	and white white of	N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	which when when wh	N/A
G.11.3	Rules for selecting capacitors	Tet wet outer mure	N/A
G.12	Optocouplers	m m m	N/A
white we	Optocouplers comply with IEC 60747-5-5 with specifics	White white white white	N/A
ine mus	Type test voltage V _{ini,a} :	let nifet mile while all	
t de	Routine test voltage, V _{ini, b} :	a to the to	*
G.13	Printed boards	white white white white	P
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board or over the outer surface of coated printed boards complied with the minimum clearance and creepage requirements of 5.4.2 and 5.4.3.	P



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the write	when she she s	EN IEC 62368-1	set outer anuter antite and	an mur
Clause	Requirement + Test	TE WALL MAY WIT	Result - Remark	Verdict

G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface	Tel multer white white w	N/A
G.13.5	Insulation between conductors on different surfaces	t state state states int	N/A
, t	Distance through insulation	when the second	N/A
when a	Number of insulation layers (pcs)	white white white white	m.
G.13.6	Tests on coated printed boards	e at at at	N/A
G.13.6.1	Sample preparation and preliminary inspection	street while while which a	N/A
G.13.6.2	Test method and compliance	at not not what is	N/A
G.14	Coating on components terminals	me me me m	N/A
G.14.1	Requirements	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components	White white white white	N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance	and the state with the	N/A
G.15.2.1	Hydrostatic pressure test	Mr. Mr. M.	N/A
G.15.2.2	Creep resistance test	NUTER INTER WAITE WALL	N/A
G.15.2.3	Tubing and fittings compatibility test	a se st st	N/A
G.15.2.4	Vibration test	NUTE WALL WALL WALL	N/A
G.15.2.5	Thermal cycling test	at at set set a	N/A
G.15.2.6	Force test	me m m n	N/A
G.15.3	Compliance	Tet with mite with	N/A
G.16	IC including capacitor discharge function (ICX)	W W tot	N/A
G.16.1	Condition for fault tested is not required	No such IC used	√ [®] N/A
Set 5	ICX with associated circuitry tested in equipment	to the state	N/A
ter the	ICX tested separately	it whit whe whe s	N/A
G.16.2	Tests	at that the with m	N/A
t stret	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	when we we we	
. lit	Mains voltage that impulses to be superimposed on	which will will super-	

G



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zn.	EN IEC 62368-1	it white white white wi	20
Clause	Requirement + Test	Result - Remark	Verdic
sur	when the state of the shift will	and white white white white	-101-
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	whet milet milet amiles	MALTER
G.16.3	Capacitor discharge test:	st it it	N/A
H. W.	CRITERIA FOR TELEPHONE RINGING SIGNALS	MUSE WALL WALL VALLY	N/A
H.1 🦽	General	it at at set	N/A
H.2	Method A	it white white white white	N/A
H.3	Method B	t wet whet which which	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	et set set with whet	Net of
H.3.1.2	Voltage (V)	i me me me	, - ,
H.3.1.3	Cadence; time (s) and voltage (V)	E NUEL WALFER WALFE WAL	1 min
H.3.1.4	Single fault current (mA)::	a at the tot	54
H.3.2	Tripping device and monitoring voltage	White white white white	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	at white white	N/A
H.3.2.2	Tripping device	and the state of	N/A
H.3.2.3	Monitoring voltage (V)	a mur mur mir a	N/A
Junite	INSULATED WINDING WIRES FOR USE WITHOUT INSULATION	UT INTERLEAVED	N/A
J.1	General	aret aret ouret on the	N/A
the state	Winding wire insulation:	an m m t	15-
er mer	Solid round winding wire, diameter (mm):	WHER WAITER WALTE WALTE V	N/A
t set	Solid square and rectangular (flatwise bending)	and the state of	N/A

winding wire, cross-sectional area (mm²)

Instructional safeguard:

Inadvertent change of operating mode

Interlock safeguard override

Components of safety interlock safeguard mechanism

Tests and Manufacturing

SAFETY INTERLOCKS

General requirements

. Г

N/A

N/A

N/A

N/A

N/A

N/A

No safety interlock provided

within the equipment.

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J.2/J.3

κ

K.1

K.2

K.3

K.4



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Clause	Requirement + Test	Result - Remark	Verdict

K.5	Fail-safe		N/A
K.5.1	Under single fault condition	nute white white white	N/A
K.6	Mechanically operated safety interlocks	at at at set	N/A
K.6.1	Endurance requirement	the me me a	N/A
K.6.2	Test method and compliance:	at the tree with the	N/A
K.7	Interlock circuit isolation	ma ma ma m	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	MALTER WALTER WALTE WALT	N/A
MITE W	In circuit connected to mains, separation distance for contact gaps (mm):	Inter white white white	N/A
JEE WAL	In circuit isolated from mains, separation distance for contact gaps (mm)	Et whitet whitet whitet w	N/A
WALTER	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):	the set state state	N/A
K.7.3	Endurance test	me min and an	N/A
K.7.4	Electric strength test	att while while a	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	and white white white wh	N/A
L.2 5	Permanently connected equipment	at at at 5	N/A
L.3	Parts that remain energized	MILL WAL WAL W	N/A
L.4	Single-phase equipment	set set with with	N/A
L.5	Three-phase equipment	her and an an	N/A
Ê.6	Switches as disconnect devices	wet mitter white white a	N/A
L.7	Plugs as disconnect devices	s at at a	N/A
L.8	Multiple power sources	white white white white	N/A
NUTER	Instructional safeguard:	at the set will	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	Р
M.1 🕠	General requirements	LIEK ALIEK MUTER MUTER	P
M.2	Safety of batteries and their cells	the state of the	, P
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved cell used	Р
M.3	Protection circuits for batteries provided within the equipment	while while while whi	P
M.3.1	Requirements	the the stree with	J P



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Clause Requirement + Test	Result - Remark	Verdict
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M.3.2	Test method	i it it it	P
me m	Overcharging of a rechargeable battery	NUTE WALT WALT WALT	P
5th 55	Excessive discharging	at at at set	́Р
et jet	Unintentional charging of a non-rechargeable battery	which which we will be	N/A
an.	Reverse charging of a rechargeable battery	water water war war	N/A
M.3.3	Compliance	Let set set all	Р
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		
M.4.1	General	a man m	Р
M.4.2	Charging safeguards	et with whet white wh	R.
M.4.2.1	Requirements	the second second	P
M.4.2.2	Compliance:	(See appended table Annex M.4)	P
M.4.3	Fire enclosure:	V-0 plastic cell frame fire enclosure used	P
M.4.4	Drop test of equipment containing a secondary lithium battery	Martin water of	Р
M.4.4.2	Preparation and procedure for the drop test	and white white white white	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	After test, the voltage difference less than 5% .	Pre
M.4.4.4	Check of the charge/discharge function	and at at	P
M.4.4.5	Charge / discharge cycle test	NUTE WHIT WALL WALL	Р
M.4.4.6	Compliance	at at the set	́Р,
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	Ρ
M.5.2	Test method and compliance	THE LER NUMBER MUTE	N/A
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	P
M.6.2	Compliance	white white white white	N/A
М.7	Risk of explosion from lead acid and NiCd batteries		N/A



EN IEC 62368-1					
Clause	Requirement + Test Result - Remark	Verdic			
sur.	an an a start the street with and and and	m			
M.7.1	Ventilation preventing explosive gas concentration	N/A			
m m	Calculated hydrogen generation rate:	N/A			
M.7.2	Test method and compliance	N/A			
	Minimum air flow rate, Q (m ³ /h)	N/A			
M.7.3	Ventilation tests	N/A			
M.7.3.1	General	N/A			
M.7.3.2	Ventilation test – alternative 1	N/A			
dit .	Hydrogen gas concentration (%):	N/A			
M.7.3.3	Ventilation test – alternative 2	N/A			
JEX NIT	Obtained hydrogen generation rate:	N/A			
M.7.3.4	Ventilation test – alternative 3	N/A			
NULLE	Hydrogen gas concentration (%):	N/A			
M.7.4	Marking	N/A			
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A			
M.8.1	General	N/A			
M.8.2	Test method	N/A			
M.8.2.1	General	N/A			
M.8.2.2	Estimation of hypothetical volume V _Z (m ³ /s):				
M.8.2.3	Correction factors				
M.8.2.4	Calculation of distance <i>d</i> (mm)	JUL			
M.9	Preventing electrolyte spillage	N/A			
M.9.1	Protection from electrolyte spillage	N/A			
M.9.2	Tray for preventing electrolyte spillage	N/A			
M.10	Instructions to prevent reasonably foreseeable misuse	N/A			
-m -m	Instructional safeguard	N/A			
N ^{S⁶¹^S}	ELECTROCHEMICAL POTENTIALS	N/A			
	Material(s) used: Pollution degree considered				
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES				
- 15-	Value of X (mm): Considered.	N/A			
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	P			
P.1	General No opening	P			

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Clause	Requirement + Test	Result - Remark	Verdict

P.2 Safeguards against entry or consequences of en		try of a foreign object	N/A
P.2.1 📣	General	nute white white white	N/A
P.2.2	Safeguards against entry of a foreign object	at at all set	JEK .
24	Location and Dimensions (mm)	white white white w	
P.2.3	Safeguards against the consequences of entry of a foreign object	t watter watter watter while	N/A
P.2.3.1	Safeguard requirements	the state state with	N/A
NUTEX ST	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	Not transportable equipment	N/A
itet mit	Transportable equipment with metalized plastic parts	Not transportable equipment	N/A
P.2.3.2	Consequence of entry test	Mar Mar Mar M	N/A
P.3	Safeguards against spillage of internal liquids	t with aller white white	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	INTER WATE WATE WATE	√ N/A
P.3.3	Spillage safeguards	at a set set	N/A
P.3.4	Compliance	a contraction of	N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	INTER INTERNATE WATE	N/A
det .	Conditioning, T _C (°C):	a to the let	. State
m. m	Duration (weeks):	NUT WILL WAL WAL	n
Q ^{at} S	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	С ^С Р
Q.1	Limited power sources	See appended table Annex Q.1	Р
Q.1.1	Requirements	me me me	Р
white a	a) Inherently limited output	with with mith white	N/A
d.	b) Impedance limited output	No was at sit	P
un m	c) Regulating network limited output	LIFE WALTE WALT WALT	N/A
let al	d) Overcurrent protective device limited output	a at at at a	N/A
-2m	e) IC current limiter complying with G.9	white white white white	N/A
		1 2 4	×
Q.1.2	Test method and compliance:	See below	P



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Clause	Requirement + Test	Result - Remark	Verdict

Q.2	Test for external circuits – paired conductor cable	N/A
d.	Maximum output current (A)	N/A
r. m	Current limiting method	-111
R S	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General No such consideration.	N/A
R.2	Test setup	N/A
*	Overcurrent protective device for test	L
R.3	Test method	N/A
the s	Cord/cable used for test	
R.4	Compliance	N/A
S S	TESTS FOR RESISTANCE TO HEAT AND FIRE	S 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	
5 C C C C C C C C C C C C C C C C C C C	Samples, material	
NUTET ON	Wall thickness (mm)	N 11 - 1
at a	Conditioning (°C)	at
WILL WILL	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
m	- Material not consumed completely	N/A
Jet .	- Material extinguishes within 30s	N/A
n a	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	
*	Samples, material	* -
with	Wall thickness (mm)	na m
Set	Conditioning (°C)	d _
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
in whi	Mounting of samples	me the
A	Wall thickness (mm)	A
S.4	Flammability classification of materials	N/A



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Clause	Requirement + Test	Result - Remark	Verdict

S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	ANJEK WALTER WALTER WALTER	N/A
LIE M	Samples, material	Tet wet when when w	1.1° - 11
dt - 1	Wall thickness (mm)	where the state	*
me	Conditioning (°C)	e intre white white white	- The
T SP	MECHANICAL STRENGTH TESTS	. A A A A	P
т.1	General	water when we we	Р
T.2	Steady force test, 10 N	(See appended table T.2)	P
Т.3	Steady force test, 30 N	1	N/A
T.4 🔊	Steady force test, 100 N	(See appended table T.4)	R
T.5 🧹	Steady force test, 250 N	a at at a	N/A
T.6	Enclosure impact test	Marte while while white	N/A
SIL	Fall test	at at any are	N/A
and the second s	Swing test	UNE MARY WITH WITH	N/A
T.7	Drop test:	(See appended table T.7)	С ^Г Р _N
Т.8	Stress relief test	(See appended table T.8)	"⊢ Р
Т.9 🔊	Glass Impact Test:	No such glass	N/A
T.10 _	Glass fragmentation test	the state of	N/A
m	Number of particles counted	No such glass	N/A
T.11	Test for telescoping or rod antennas	at the state state	N/A
Set in	Torque value (Nm):	No such antennas provided within the equipment.	N/A
U Starte	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
U.1	General	we we we we	N/A
where	Instructional safeguard :	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen		N/A
V SUL	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment	in the state of the	N/A
V.1.1	General	and which which which	N/A



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Clause	Requirement + Test	Result - Remark	Verdic
		white white white white	
V.1.2	Surfaces and openings tested with jointed test probes	with miller whiter whiter	N/A
V.1.3	Openings tested with straight unjointed test probes	i i at at	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	after white white white w	N/A
V.1.5	Slot openings tested with wedge probe	a stat stat st	N/A
V.1.6	Terminals tested with rigid test wire	white when when with	N/A
V.2	Accessible part criterion	the state state with	N/A
X N ¹¹	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NOT (300 V RMS)		N/A
1 ⁶⁴	Clearance:	at at at at	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOC	R ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	with which the state	N/A
Y.3	Resistance to corrosion	NUTER MUTE WALT WALT	s∿N/A
Y.3	Resistance to corrosion	the state of the	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	the construction of the co	N/A
Y.3.2	Test apparatus	white white white white	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	the state state with	N/A
Y.3.4	Test procedure	mu mu m	N/A
Y.3.5	Compliance	street intreet intree white	N/A.
Y.4	Gaskets	i i it it	N/A
Ý.4.1	General	ret white white white w	N/A
Y.4.2	Gasket tests	t at not stat with	N/A
Y.4.3	Tensile strength and elongation tests	white white where while	N/A
MALTERN	Alternative test methods:	Tet stret wheet white	N/A
Y.4.4	Compression test	me me me	N/A
Y.4.5 🔊	Oil resistance	LIEK MUTER MALTE WALTE V	N/A
Y.4.6	Securing means	1 A A A	<-N/A
Y.5	Protection of equipment within an outdoor enclose	sure of the second	N/A
Y.5.1	General	at set set all	N/A
Y.5.2	Protection from moisture	mus me me	N/A
NUT N	Relevant tests of IEC 60529 or Y.5.3	at all all all	N/A



N/A

N/A

N/A

N/A

N/A

N/A

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1,

EN IEC 62368-1 Clause Requirement + Test Result - Rer	Intifer while while white
Clause Requirement + Test Result - Rer	
	mark Verdict
Y.5.3 Water spray test	N/A
Y.5.4 Protection from plants and vermin	N/A
Y.5.5 Protection from excessive dust	N/A

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn

Y.5.5.1

Y.5.5.2

Y.5.5.3

Y.6

Y.6.1

Y.6.2

General

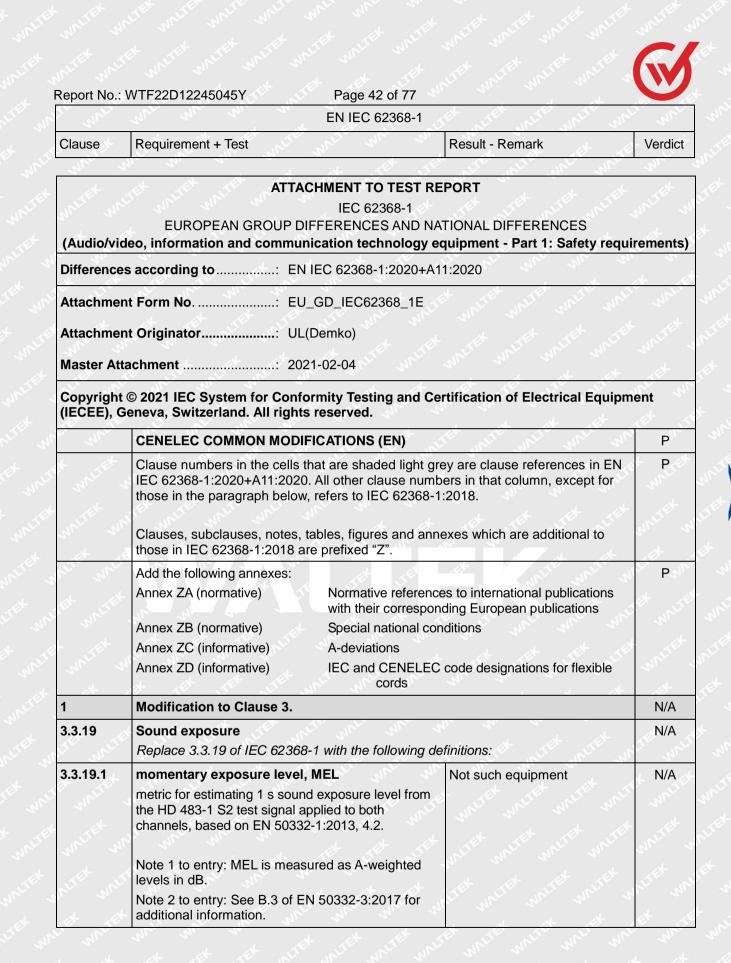
General

IP5X equipment

IP6X equipment

Impact test

Mechanical strength of enclosures





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EN IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
3.3.19.3	sound exposure, E A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	antifet white white wh	N/A	
	Note 1 to entry: The SI unit is $Pa^2 s$. $E = \int_{0}^{T} p(t)^2 dt$	et whitek whitek white	an 2 an	
3.3.19.4	sound exposure level, SEL	sure sure in in	N/A	
	logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	ULIEK WALTER WALTER WAL	et valiet v	
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.	Set while while while	white white	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	white wire white	Tet whitet	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at an area and	et antiret and	
3.3.19.5	digital signal level relative to full scale, dBFS		N/A	
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997- Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	white white white	MALE MALES	
	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.	Stret water water water	NO TOL MAN	
2	Modification to Clause 10		N/A	
10.6	0.6 Safeguards against acoustic energy sources		N/A	
which when	Replace 10.6 of IEC 62368-1 with the following:	and the market market and	white white	
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:	and white white white	AND	
	- is designed to allow the user to listen to audio or	A de de	Ser Ser	

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Clause Regult - Remark Vertical audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. 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 10.6.6 as soon as possible. Listening devices sold separately shall comply with the requirements of 0.6.6. These requirements do not apply to: - professional equipment; NOTE 3Professional equipment is equipment sold through special sales channels. All products 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 • cassette player/recorder; NOTE 4 This exemption has been allowed because this technologies.	white	EN IEC 62368-1	set with which which	where whe
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a at at and the other with which with the state of the		it at not not not white white white	m. m. m.	
 – a player while connected to an external amplifier that does not allow the user to walk around while in 			A at at	JEA JEAN



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Clause Requirement + Test	Result - Remark	Verdict
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	use.	St at at	at at
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	NUTER WALTER WALTER WALT	WALTER W
MULTER	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	MILEN MUTER MAILER	miret whi
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	Tet stat stat of	N/A
Tet white	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	Whitek whitek whitek	NUT SURIES
0.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
	 General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i>Aeq, <i>T</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>T</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. 	Not such equipment	N/A
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</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,	whitek whitek whitek	Tek antrek



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	EN IEC 62368-1	the the sh	27 2
Clause	Requirement + Test	Result - Remark	Verdic
whitek wh	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	white white antitet	Set miret
	 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 <i>L</i>Aeq, <i>T</i> 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 	where	
10.6.2.3	per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3)	att the sensitive wants	N/A
WALTER WALTER	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, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	WALTER WALTER WALTER	MALE WALE
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	at minet minet white	N/A
10.6.3	Classification of devices (new)	an a st	N/A
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level	Not such equipment	N/A

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Clause	Requirement + Test	Result - Remark	Verdic
Whitek wh	warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	ALTER ONLIER MALIER MA	Tet unifit
10.6.3.2	 RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, <i>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme 	And the and th	N/A
10.6.3.3	simulation noise" described in EN 50332-1.	a state on the superior	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.4	Requirements for maximum sound exposure	the state of the	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	Not such equipment	N/A
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed	white white white a	N/A

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	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Mar	persons and skilled persons are given in 4.3.	white white white white	-201-
	NOTE 1 Volume control is not considered a safeguard.	ALTER WALTER WALTER WALTER	WALLEN.
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	Antiret whitet whitet white	an Charlow And
	The elements of the instructional safeguard shall be as follows:	ster whiter whiter whiter	S ALTE V
	– element 1a: the symbol , IEC 60417-6044 (2011-01)	et white white white w	n n et is
	 – element 2: "High sound pressure" or equivalent wording – element 3: "Hearing damage risk" or equivalent 	while while while whi	- June
	wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	and worth which which	WALLEX .
	An equipment safeguard shall prevent exposure 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.	white white white	er ex mini
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output	white white white white	VINITER.
	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.	whitek whitek whitek	n ² wni Set wni t set
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	whitet white white white	whitek a
	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.	at ret ret of	e et un
	A skilled person shall not be unintentionally exposed to RS3.	white and white and	-SIL

Requirements for dose-based systems

10.6.5

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Clause	Requirement + Test	Result - Remark	Verdic
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	General requirementsPersonal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	Not such equipment	N/A
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	antiet antiet antiet antiet	white white
10.6.5.2	Dose-based warning and requirements	and white white	N/Å
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	white white white	suni ex vini nitet sunite
untit wh	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	LIFE WALLEY WALL WAL	VINL TEX
10.6.5.3	Exposure-based requirements	ier mile spile spile	N/A
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at.	whitek whitek whitek	UNITE UNITES
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	and whitek whitek whitek	WALTER WA
WITEK W	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For	at the tot of	JEX WITEK



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	EN IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
un .	an an an an an	NUTE INTE WALL WALL	2m2			
antifet yun	equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	AND AND THE WALTER WALTER	antifek a			
sur-	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	white white white white	- NU			
10.6.6	Requirements for listening devices (headphones	, earphones, etc.)	N/A			
10.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A			
	With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be \geq 75 mV.	and an aret an aret an aret and a set	ALTE MALES			
NUTER MALT	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	at the super marter of	LIEX WA			
10.6.6.2	Corded listening devices with digital input		N/A			
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	white white white white	WALTER JU			
10.6.6.3	Cordless listening devices	we we me m	N/A			
	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, T acoustic output of the listening device shall be \leq 100 dB with	where white white white	whitek			
10.6.6.4	an input signal of -10 dBFS. Measurement method	at the the	N/A			
		N N N N	N			



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Clause Requirement + Test	Result - Remark	Verdict
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3	M	odification	to the whole	document				Р
LIEK W	De lis		"country" note	s in the refe	rence docume	nt according	to the following	U T P
	er in	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	Set mis
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	a sh
	-Jun -I	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	MALT
	UNITES .	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	WALTER W
	500 -5	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	Ne was
	and a second	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	NUNLTE
	JUNIA	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	WALLER.
	aura A	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	Wallet W
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	LE WAL
	-	Y.4.5	Note					N INLIEN
-200. -	M	odification	to Clause 1			w. w.	<u></u>	P
с s	A	dd the follow	ving note:	15 5	5 55 3	The Main	with with	Р
set on	N ar	OTE Z1 The	use of certain equipment is					n Tet on
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Clause	Requirement + Test	Result - Remark	Verdict
in in	N NN N I A A A A A	white white white white	m
	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment, 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 shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Considered. Complied with item a) for internal fuse used and for parts as described in b) reliance on the protection in the building installation.	
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



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	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
- m	WE WE THE AT A SHE SHE	white white white white	m
	 Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. 		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	antet watet watet watet	Waret w
WALTER	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	white white white white	ex white
9	Modification to G.7.1		N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	Approved mains plug used (see appended table 4.1.2)	N/A
10	Modification to Bibliography		N/A



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Clause

Requirement + Test

Result - Rem

nark \	Verdict
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de la	Add the following notes for	or the standards indicat	ed:	- P-
	IEC 60269-2 NOT IEC 60309-1 NOT IEC 60364 NOT IEC 60661-2-4 NOT IEC 60664-5 NOT IEC 61032:1997 NOT IEC 61558-2-1 NOT IEC 61558-2-6 NOT IEC 61643-11 NOT IEC 61643-21 NOT IEC 61643-321 NOT	TE Harmonized as EN 6 TE Harmonized as EN 6	0269-2. 0309-1. red in HD 384/HD 60364 series. 0601-2-4. 0664-5. 1032:1998 (not modified). 1508-1. 1558-2-1. 1558-2-4. 1558-2-6. 1643-1. 1643-21. 1643-311.	NO TEX NOTES
11	ADDITION OF ANNEXES	, <i>1</i> , 1	ter	Jer yuntir
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		P	
4.1.15	 Denmark, Finland, Norw To the end of the subclaus added: Class I pluggable equipt for connection to other eq shall, if safety relies on co earthing or if surge suppre- between the network term parts, have a marking stat shall be connected to an e outlet. The marking text in the ap shall be as follows: 	se the following is ment type A intended uipment or a network nnection to reliable essors are connected inals and accessible ing that the equipment earthed mains socket-	Not directly connected to the mains	N/A
Whitek whitek	In Denmark : "Apparatets en stikkontakt med jord so stikproppens jord." In Finland : "Laite on liitett varustettuun pistorasiaan" In Norway : "Apparatet må stikkontakt" In Sweden : "Apparaten sl uttag"	om giver forbindelse til ävä suojakoskettimilla htilkoples jordet	antick antick antick antick	and some of



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Clause	Requirement + Test	Result - Remark	Verdict

4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:	NUTEX INTER WATER WATER	- units .
	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	Tet white white white	W LIEK W
5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	* 1
	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.	WALFOR WALFOR WALFOR WALF	whitek .
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:	et that whet muset a	NITEX MA
	For separation of the telecommunication network from earth the following is applicable:	when we would be	ret water
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	such and an and	t whitet
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 	at when some wint	WEITER W
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	and the south souther an	is ex whi
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	and and and and and and and	et wouret
	 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), 	white white white white	STA WALT
	and set much much while while	and what when we want	
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	and which which which	a n an
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	white white white white	E WALTE
	A capacitor classified Y3 according to EN 60384-	at at set set	NUTER



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20.	EN IEC 62368-1	in which all all all all	14
Clause	Requirement + Test	Result - Remark	Verdic
sur .	all and the second s	white white white white	m
	14:2005, may bridge this insulation under the following conditions:	and share mark sources	whitek.
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; 	THE WALLEY WALLEY WALLEY	N LTEX W
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	and an and and and	X WALTER
INLIES WAY	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.	and white white white	VALIE V
5.5.2.1	Norway	X-capacitors, Y-capacitors	N/A
	After the 3rd paragraph the following is added:	rated min. 250V.	St . St
WAL	Due to the IT power system used, capacitors are required to be rated for the applicable line-tOLine voltage (230 V).	white white white white	- WAL
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	the state of the state	Set
	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.	and and and and and	in ex mu
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	and souther and souther and souther	Whitek
et whitet	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	what which while way	SEX MALT
5.6.4.2.1	Ireland and United Kingdom	Approved mains plug used	N/A
white whi	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	(see appended table 4.1.2)	WALTER W
5.6.4.2.1	France	s at at at	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.	antifet antifet antifet anti	E WALTE

1

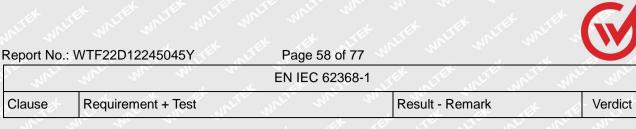


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EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
Mrs	with the set of the set	white white white	me me
5.6.5.1	To the second paragraph the following is added:	i de de	N/A
NNET W	The range of conductor sizes of flexible cords to be 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.	NUTER MUTER WAITE W	ex unit un
5.6.8	Norway	m m m	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.	WALTER WALTER WALTER	white white
5.7.6	Denmark	i i it	N/A
	To the end of the subclause the following is added:	tree watter watter way	and a start
JEK WALT	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.	et amilet antiet amile	A MUNICER WAY
5.7.6.2	Denmark	. It it it	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	mitet white whitet	uret whitet
5.7.7.1	Norway and Sweden	Not such system.	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	white white white	Martines Martines
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	Et water water water	et our ret our
	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:	whitet whitet whitet	MALIT MALIE
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a	Tet Tet Tet	ret waret w
	device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728- 11)"	white white white	LIFE MUTER



201 - 2	the state of the state	white white whe whe	-2m
antiet antie	NOTE In Norway, due to regulation for CATV- installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway):	North Whitek whitek whitek	untret white
MALIER MAL	"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."	and an and an and an and an and an and an and and	WALTER .
A JUNITER J	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 medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	MAN MAN SAME STAR	et someret
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	No external circuits.	N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	Not direct plug-in equipment	N/A
G.4.2	Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets	Approved mains plug used (see appended table 4.1.2)	N/A

Clause

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mouth	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
antitet an	with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	NUTER MALTER MALTER MALTER	anister .
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	water water water water	A WALT
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	eret would would would we	INLITER ON
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	whitek whitek whitek white	white
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 5a or DK 1-7a	ANTER MALTER WALTER WALTER	ountrest,
	Justification: Heavy Current Regulations, Section 6c	and the stift with	EX WALT
G.4.2	United Kingdom To the end of the subclause the following is added:	Not direct plug-in equipment	N/A
Whitek we	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	White white white	NUTEX D



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at white	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following is added:	Approved mains plug used (see appended table 4.1.2)	N/A
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	Set whitet whitet whitet white	antifet
INLIFEK WA	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	white white white white	NUTER W
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs	Should be evaluated during national approval however plug according to BS 1363-1 as for UK may be used.	N/A
MALE MAL	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	antite antite anti- anti-	surer our
G.7.2	Ireland and United KingdomTo the first paragraph the following is added:A power supply cord with a conductor of 1,25 mm²is allowed for equipment which is rated over 10 Aand up to and including 13 A.	Approved mains plug used (see appended table 4.1.2)	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	tet the state with	N/A
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.	whitet whitet whitet white	whitek
	<i>Justification</i> : German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	an white white white	et whi
WALTER	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	white white white white	whitek



Clause Requirement + Test Resul

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H05Z1Z1-F

H03Z1Z1H2-F

H05Z1Z1H2-F

C and CENELEC CODE DESIGNATIC	<u></u>	
Type of flexible cord	Code d	esignations
	IEC	CENELE
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 o	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 co	ord 60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed	cord 60245 IEC 87	Н03 RV4-Н
Crosslinked PVC insulated and sheathed con	d 60245 IEC 88	H03V4V4-H

Cords insulated and sheathed with halogen-

Light halogen-free thermoplastic insulated and

Ordinary halogen-free thermoplastic insulated and

free thermoplastic compounds

sheathed flexible cords

sheathed flexible cords

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5.2	TABLE: Classification of electrical energy sources					P			
Supply	Location (e.g.			Parameters					
, energe	circuit designation)		U (V)	l (mA)	Type ¹⁾	Additional Info ²⁾	Class		
5Vdc	5Vdc The EUT is designed to be supplied by Type -	Normal	<60Vdc		SS	DC	the second		
		Abnormal	in the	- 4hr	20th	200 - 200 T	ES1 (declar		
C port	Single fault – SC/OC	LIEK WALT	t	WALLER W	LIE WILLE	e)			
4.20Vdc	The EUT is	Normal	<60Vdc		SS	DC	N. TE		
designed to be	designed to be supplied by	Abnormal	141 V	m. m			ES1 (declar		
	Internal Li-ion battery cells	Single fault – SC/OC	Whitek W	LIEK- WALT	an white	mer- me	e)		

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 measurement					
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments		
in m			.5 th 5 th	MUTE MUT	white white where a		
att at	et - unifet antifet	AUT AUT	2424.		at the state		
-20-	A	st - st .	LIEF JULE	Unit BUL	me me - m m		
Suppleme	ntary information:						

5.4.1.10.2 TABLE: Vicat so	ftening temperature of thermo	plastics	N/A
Method		: ISO 306 / B50	white -
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)
- when we we	at wet the muter	mite unit unt	m. m. m.
Supplementary information:			
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5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed impression diam	eter (mm)	:	≤ 2 m	mart when a	nr.	
Object/Part No./Material	Manufacturer/trademark	Thickness (mm)		nm) Test temperature (°C)		ession ter (mm)
et allet - and the wall	mer mer m	,	÷	et .7. 5		the second
the second second	and an and a set of the set of th	the mit	m	mur mur	4	- *

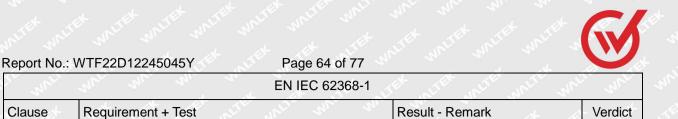
Supplementary information:

Other materials of transformer are no need to conduct this test. See appended table 4.1.2, and no other parts are necessary to be tested.

5.4.2, 5.4.3	TABLE: Minimum Clearances/Creepage distance						N/A		
	el) and creepage 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)
	5 A A	.5.4		NT CT	mr 1	12 - 21	-10		75-
White whi	-m m	20		704		5 ⁴ - 55	17	. Martine	mer-
1. 1.			S	"N	112		The second	7	,d
Supplementa	ary information:			P			<u></u>	, ji	<u></u>

5.4.4.2	TABLE: Minimum distance through insulation			at the	N/A
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
m n	1 - A A	set wet muse	untite martin wh	m. m.	
JUTER MALT	The way	m m	at the de	- Jak Mart	NALTE MAL
* #		Tet with white	m m		15- J
Suppleme	ntary information:				
. A	the state and	E MAIL WAL WA	24. 20	1 A	the set

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						
Insulation r	naterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
- m	The In		5 ⁰⁵	JEF NUE	- mile m	- win .	u_{n} u_{n}
Supplemen	tary information:						
The bobbin	of transformer ma	aterial is phen	olic	er nutre	inch where	in n	Cr.



5.4.9	TABLE: Electric strength	tests		N-
Test volta	ge applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functiona	: THE THE STREET OF	in white white when a	i i i	15 1
- m	me m m	at the street with the	Let white white	nur -nur
Basic/sup	olementary:	white white the second	t at at	JEK JIEK
	and the state	TEX - MITER WALTE WALT	- me me	<u>~</u>
Double/ re	inforced:	when it it it	Tet ster as	JER MALTER W
de la	t at the set	ALTER MALTE MAL	m to m	
in white	me me m n	t at the set	LIFER METER MAIN	min - mi
it set	THE NEAR MUTCH WIT	the must me - mi a	s To the	.dd
Routine Te	ests:	t with writer mutter whi	the wall wall	me m
- 500	NUTER INTER WALTE WALTE	un	- at at	Set Jiet
Suppleme	ntary information:			
NUTE IN	5° 6° 6° 6	shi a st	510 N	er alle an

5.5.2.2	5.5.2.2 TABLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class
NUTER IN	SE WAL	with mar ~		the state		A INTER
	t st	at - at a	Tet white white	and an	m. m.	,i
ine went	mar	m. The m	d=d+	JEt - JEt	NUTER - NUTE	men - m
Supplemer	ntary inform	nation:				1
X-capacitor	s installed	for testing are:	at let a	let still and	SE MALTE W	U. M.

[] 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: Resistan	ce of protective conduc	tors and termination	ons 🖉 🛷	N/A
Location	_	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
* STER	Intre- untit wh	5 1 <u>1</u> 1	s the state	_d+d+	JIE - JIE
		the state of	water water	m the a	-

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and when	mer me me	EN IEC 62368-1	ret when white whi	White White
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5.7.4	TABLE	E: Unearthed acces	sible parts			it	n/a
Location		Operating and Supply	Parameters			ES	
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class
Set-	Jet .	with mark whit	mr. m		L		544
		1 7 1	Set M	NALTE WALK	me- m	-11-	24
		me - m	Mr - w	15 15	50t- 50t	S. S. S.	51°
			JER - MITT	water - water	2424.		

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed access	ible conductive part		A St	N/A
Supply vol	tage (V):	- et alter alter a	NUTER WALTER W	Were and	
Phase(s)		[] Single Phase; [] Three F	Phase: [] Delta	[]Wye	
Power Dis	tribution System:	[]TN []TT []I	T S S	10 10	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commo	ent
- Intre	white white white white	s the state	Set - Set	NUTER INITE	MALTE
A	the the state with	water water water	n. 7n.	L A	j.t.
Suppleme	ntary Information:				
de la	et the the will	white when we we		st at	de .

5.8 T	ABLE:	Backfeed sa	feguard in battery b	acked up s	upplies	. At	N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
-m m	-2m		at 3th 3th	NITER NO	JE WILL V	Vr mr.	20 <u>-</u> -
Supplementary	y inform	nation:					
h. n	20.		a de de	55 5	The stan	· m·	24. 24.

6.2.2	TAB	LE: Power source	circuit classific	ations	White white	me m	Р
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class

GK



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in main		EN IEC 62368-1		in more
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Battery cell	Output pin + to -	2.7	8.0	21.6	5S	PS2
Main board	Output pin + to - Signal fault (U3 pin 3-4 SC)	0*	0*	0*	3S	PS1
Main board	Output pin + to - Signal fault (U2 pin 1-6 SC)	white 0* hiter	0*	0*	3S	PS1
Main board	Output pin + to - Signal fault (U4 pin 1-2 SC)	0*	0*	0*	3S	PS1
Main board	Output pin + to - Signal fault (NTC1 SC)	0*	0*	0*	35	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.

* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1 TABLE: Dete	rmination of Arcing PIS	et stet stet	INLIER WALTER WA	N/A S
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
at at T	for the source			de d
Supplementary information:	:			
L At At A	a the strand with the	$h_{i} = 2h_{i} = 2h_{i}$	e de	the state

6.2.3.2	TABLE: Deter	rmination of resistive PIS		_∕r _ P
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/co		o ret miret would would would an	The white white white	Yes (declaration)

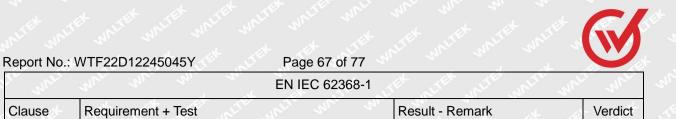
All primary and secondary circuit are considered as resistive PIS

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 availabel power exceeding 15 W measured 30 s after introduction of the fault.

All conductors and devices are considered as PIS.



8.5.5	TABLE: High	n pressure lamp			At	N/A
Lamp mai	nufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	icle found rond 1 m es / No
7 1	t set se	A WELFER WALTER WAY	an the main the	E A		5- S
Suppleme	entary information	ו:				

Supply voltage (V)			: 5	iv Num			-241-	
Max. transmit pow	er of transm	nitter (W)	: 5	w	At a	JEK JIEK	MUTER	
	w/o receiver and direct contactwith receiver and direct contactwith receiver and distance of 2 mm			with receiver and a distance of 5 mm				
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel disc	25.1	24.7	25.3	24.7	25.2	24.7	25.1	24.7
Aluminum ring	24.9	24.7	25.8	24.7	25.6	24.7	25.5	24.7
Aluminum foil	25.4	24.7	25.1	24.7	25.2	24.7	25.4	24.7

5.4.1.4, TABLE: Temp 9.3, B.1.5, B.2.6	erature measurement	S MALTER MALTER M	stet water water	P	
Supply voltage (V)	5	4.2	WALTE WALT W	_	
Ambient temperature during test <i>T</i> _{amb} (°C)	See below	See below			
Maximum measured T (°C)emperature T of part/at:					
Condition 1:Only charge w	vith internal empty batte	ery.	A A A	Str. S	
PCB near U1	48.4	ret mile - mile w	in min - me	130	
Battery body	38.3		the state - where we	Ref.	
Battery wire	38.5	white the way	Aller The she	80	
Internal enclosure near battery	36.7	INTER WATER WATER	WALTER WALTER WALT	70	
Ambient(°C)	35.0	× 77 At	Tet that when	INTE N	



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Accessible parts							
Switch	25.	.5	1 .	Et NUE	Inter W	Vite Mure .	48
External enclosure near battery	25.	.7	A	- Just	IN SEX WAL	Whitek W	48
Ambient(°C)	25.	.0 0	200			1 5	d
Condition 2:Only discharge	with interna	al fully batte	ery.	Internation International	NUL WALL	me m	240
PCB near U1	Ner Wit	mer	Ę	57.6	et et		130
PCB near U1(Wireless Charge)	TEX MUTEX WALTER V		INTE SE	52.4		Not set	130
Battery body		dt .	5 m 52	40.1 July	where we	~ m 1	Ref.
Battery wire	mur aur m		4	10.2	10 5	at the set	
Wireless Charge Winding	WALTER WALTER WALTE		53.4		un un	s at at s	
Internal enclosure near battery	with mint mult		37.2		in which	when when	Ref.
Internal enclosure near Wireless Charge	d	JANE V	51.0		NULL V	nt wat	Ref.
Ambient			35.0		100	JE- WALT W	in in
Accessible parts		No. 10				6 1	at de
Switch			26.4		Net white	Juni mar	48
External enclosure near battery	Inter whi	L NIN		26.8	set intret	WALTER WALTER	48
External enclosure near Wireless Charge	JER WALTE	whit		36.2	- Ninet al	LITTLE WALTER	48
Ambient	MUTER	where we		25.0		t de	St 5
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
- Mr. M. M.		s 18	4	<u></u>	ur - Nar	Mr Mr.	211

Supplementary information:

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

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 35°C.

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

B.2.5	r _{ال}	ABLE: Inp	out test		8 1	- Jet	JUEK	INLIER WALTER WALT	_√P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	l fuse (A)	Condition/stat	us

				 (√)
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ie men		EN IEC 62368-1		which white
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5 Vdc ¹⁾	What when	1.55	2 A	7.75	MUTTER .	UNLIER W	1.16 ₁ 11	Battery charge current: 1.78A
Conditi	on 2: O	nly dischai	rge with int	ernal fully b	attery	ITEX NI	I MARINE	white white where wh
4.2 Vdc ²⁾	ret	3.9	vnult Jet	16.38	er wi	et	WATTER	Battery discharge current: 3.9A, USB output: 5Vdc, 2.1A
4.2 Vdc ²⁾	mil	2.2	van v	9.24	WATER	whitek.	miret st	Battery discharge current: 2.2A, Wireless output: 5W
Supple	mentary	y informatio	on:					

1.0.

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6

B.3, B.4 TA	ABLE: Abnorn	nal operating	and faul	t conditio	on te	sts	at at a Pre-
Ambient tempe	rature T _{amb} (°C):			:	See be	low —
Power source f	or EUT: Manuf	acturer, mode	el/type, ou	Itputrating	gin:		NUTES ANUTES AND -
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		Fuse rent (A)	Observation
Condition 1: Or	ly charge with	internal empty	/ battery				the state of
U1 pin 1-7	SC	5Vdc ¹⁾	7hrs	UNLEY VIN	nure ret	WALTER.	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78→0.001
U2 pin 1-6	SC	5Vdc ¹⁾	7hrs	WALTER WALTER	wir Mail Mail	et white white	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78→0.001
Q3 pin 3-2	SC	5Vdc ¹⁾	7hrs	INIT W IFEK WNIT	et y	-NAL	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78→0.001
R55	SC	5Vdc ²⁾	7hrs	Whitek Multek	VN UNLTE LTEX	- val	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 1.78
CZ1	SC mi	5Vdc ²⁾	7hrs	** 14	t.	Tet .	Unit normally working. No damage, no hazard.



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	Requirement + Test			

whitek whitek	while whi	surfice of	ner v	A MALT	t white	Recoverable. Battery cells discharge current(A): 1.78
STE L1 ST	SC	5Vdc ²⁾	7hrs	WALLEX	aniter anit	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 1.78
R3	SC	5Vdc ²⁾	7hrs	TRE VINITE	or unifer	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 1.78
R6	SC	5Vdc ¹⁾	7hrs	vontret vo	nure- mure	Unit normally working. No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78
U4 pin 1-2	SC	5Vdc ¹⁾	7hrs	ster - out utet		Unit normally working. No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78
NTC1	0-C	5Vdc ¹⁾	7hrs	uni	et sources	Unit shut down immediately. Repeat 3 times No damage, no hazard. Recoverable. Battery cells charge current(A): 1.78→0.001
Condition 2: Or	nly discharge w	ith internal ful	ly battery	m	an a	and the state of the
U3 pin 3-4	SC	4.20 Vdc ²⁾	7hrs	WALLEX W	untret un	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9→0.001
C13	SC	4.20Vdc ²⁾	7hrs	Ter-whi white	Martin Martin	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9
R9	SC	4.20Vdc ²⁾	7hrs	anti v	net _{sunt} rat	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9

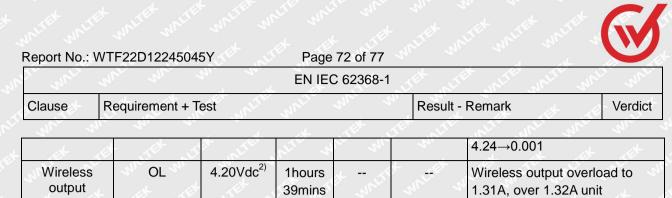


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Clause	Requirement + Test	Result - Remark	Verdict

		a starter		<u> </u>	2	
R92	SC	4.20Vdc ²⁾	7hrs	- val	Anninet an	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9
D15	SC	4.20Vdc ²⁾	7hrs	NALIEX DI	stret watte	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9
QD7 pin D-S	SC	4.20Vdc ²⁾	7hrs	at white	whitek whi	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9→0.001
R51	SC	4.20Vdc ²⁾	7hrs	natet yn	Tet united	Unit normally working. No damage, no hazard. Recoverable. Battery cells discharge current(A): 3.9
Q2 pin 1-2	SC	4.20Vdc ²⁾	7hrs	NALTEX W	ALTER MALT	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells discharge current(A): $3.9 \rightarrow 0.001$
USB output	SC	4.20Vdc ²⁾	10mins	STE-white	VE WALTER W	Unit shut down immediately. No damage, no hazard. Recoverable. Battery cells discharge current(A): $3.9 \rightarrow 0.001$
USB output	OL	4.20Vdc ²⁾	1hours 30mins	whitek w	unt un itek unite	USB output overload to 2.3A, over 2.3A unit shutdown, no hazard no damage. Recoverable when fault removed and no hazards.
anticet whitet		whitek whi	NUTE WAY	A WALFER	whitek w	PCB near U1:76.8°C Battery body: 42.1°C External enclosure near Battery :27.5°C
A MALE WALE		Tet white	whitek	WALTER WAY	netek whitek	Ambient: 25.0° C No higher temperature rise exceeding its limit occurred. Battery cells discharge current(A): $3.9 \rightarrow 3.75 \rightarrow$



NTER WALTER W	t white	WALT WALTE	4 WALTER	whitek	whitek whit	shutdown, no hazard no damage. Recoverable when fault removed and no hazards.
white white	whitek why	ret whitet	antirek .	WALTER W	white white	Wireless winding: 114.2°C Plastic enclosure outside near battery: 33.9°C
and the		t miret at	LITEK WIN	LIE WAL	MULT	Ambient: 25.0°C
and and and an	ret wattet	NALIEK MAL	et vinit	et wintifet	WALLER WA	No higher temperature rise exceeding its limit occurred. Battery cells discharge current(A): $2.2 \rightarrow 3.2 \rightarrow 0.001$

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

1) SC: Short-circuited; OL: Overloaded.

2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

M.3	TABLE: Pro	otection circu	its for batterie	s provided w	ithin the equ	ipment	P		
Is it possib	ole to install the	battery in a rev	erse polarity p	osition? :	t at	Jet Stek	_		
				Charg	ing				
Equipment Specification			Voltage (V)			Current (A)			
		INLIER WAL	5	u an.		2	dt . 5		
		Battery specification							
		Non-recharge	Non-rechargeable batteries			Rechargeable batteries			
		Discharging	Unintentional	Charging		Discharging	Reverse		
Manufa	acturer/type	current (A)	charging current (A)	Voltage (V)	Current (A)	current (A)	charging current (A		
BA TECHNOL	GUAN AIEN ATTERY LOGY CO.,LTD 866124	WALTER WAL	EX MATTEX M	3.7	2	4	LICE WAL		



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Clause	Requirement + Test	Result - Remark	Verdict
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Specified batt	ery temperat	ure (°C)		24		10-4	45
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
U2 Pin 1-7	SC	Charge	7h	NUTER W	0.001	3.7	Unit shutdown immediately. Recoverable. No damaged, no hazard.
R55	SC	Charge	7h	t	1.78	3.7	Unit working normally, no damage, no hazard.
R6	SC	Charge	7h	whitek w	1.78	3.7	Unit working normally, no damage, no hazard.
C13	SC	Discharge	7h	et - white	0.002	3.7	Unit shutdown immediately. Recoverable. No damaged, no hazard.
R29	SC	Discharge	7h	NLTER TEL	3.9	3.7	Unit working normally, no damage, no hazard.
Q1 Pin 1-2	SC	Discharge	7h	Tet-	0.002	3.7	Unit shutdown immediately. Recoverable. No damaged, no hazard.
R51	SC	Discharge	7h	NANCTE VANUTE	3.9	3.7	Unit working normally, no damage, no hazard.

Supplementary information:

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

M.4.2	TABLE: battery	TABLE: Charging safeguards for equipment containing a secondary lithium battery						
Maximum	specified c	harging voltage	ə (V)		: See below	s at		
Maximum specified charging current (A) See below								
Highest sp	ecified cha	rging temperat	ure (°C)		: See below	See below		
Lowest spe	ecified cha	rging temperati	ure (°C)		: See below	ne me m		
Battery		Operating		Measurement		Observatior	ı	
manufactu	rer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)			



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Ŷ	Clause	Requirement + Test	Result - Remark	Verdict

Lowest specified cha	rging temperature	: 10°C	10. 2.		at the first
DONGGUAN AIEN BATTERY TECHNOLOGY CO.,LTD /3866124	Normal	3.7	1.5	Battery temperature: 10°C	The battery charging current decreases
	Abnormal-	1. d=	Set and the	Mart Juli	the me in a
Whitek whitek	Single fault – (R3 SC under condition No.1)	3.7	0.001	Battery temperature: 10°C	The battery charging current decreases
Highest specified cha	arging temperature	e: 45°C	ton in		t set set states
DONGGUAN AIEN BATTERY TECHNOLOGY	Normal	3.7	0.001	Battery temperature: 42.3°C	The battery charging circuit stop charging
CO.,LTD /3866124	Abnormal-	Jet _ N	int 1	un the .	
	Single fault – (R3 SC under condition No.1)	3.7	0.001	Battery temperature: 42.3°C	The battery charging circuit stop charging

Supplementary information:

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

Q.1 TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output	Condition		Time (s)	l _{sc}	(A)	S	(VA)	
Circuit	Condition	U _{oc} (V)	Time (S)	Meas.	Limit	Meas.	Limit	
JER NIE	Normal	5.0	5	2.3		11.04	100	
	Single fault C14 SC	5.0	5	0	8.0	0	100	
USB output	Single fault U2 Pin1-8 SC	5.0	5	0	8.0	0	100	
A A	Single fault C8 SC	5.0	J 5 M	0	8.0	0	100	
Supplement	ary Information:							

T.2, T.3, T.4,	TABLE: Steady force test	
T5	an an	

P

	and the state state with an and a	\mathbf{V}
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2

		a she do		
6	Clause	Requirement + Test	Result - Remark	Verdict

Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
MAL- W NITER MAL	and and and	Figure V.1 and Figure V.2	10 	5	No reduction the clearances and creepage distances
plastic*	See table 4.1.2	WILTER VILLER	100	10-5-10-10-10-10-10-10-10-10-10-10-10-10-10-	Enclosure remained intact, no crack/ opening developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
plastic*	See table 4.1.2	- v	100	5	Enclosure remained intact, no crack/ opening developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
Plastic*	See table 4.1.2	NUN NIEK	-100	M ^A 5 MAI	Enclosure remained intact, no crack/ opening developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
	 plastic*	Material (mm) plastic* See table 4.1.2 plastic* See table 4.1.2	MaterialMaterialProbeFigure V.1 and Figure V.2plastic*See table 4.1.2plastic*See table 4.1.2	Material (mm)Probe (N)Figure V.1 and Figure V.210 V.1 and Figure V.2plastic*See table 4.1.2100plastic*See table 4.1.2100	MaterialThickness (mm)ProbeForce (N)Duration (s)Figure V.1 and Figure V.2105plastic*See table 4.1.21005plastic*See table 4.1.21005

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

Т.6, Т.9	TABLE: Impa	ct test		N/A
Location/Pa	rt Material	Thickness (mm)	Height (mm)	Observation
·	- 10 1	et and all	white wh	when when when the st
ine would	aur -m		15 1	t the with the shift white white wh
* -*		NUTER - NUTE	me -me	when the second
<u>0 - 10 -</u>	ary information		<u> 2</u>	

T.7 TA	BLE: Drop	test		a st st st st st st
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Enclosure bottom (T.7)	Plastic*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
Enclosure top	Plastic*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening

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I WALL	mer mer mer a	EN IEC 62368-1	LIEK NITER WALFER WALF	White whi
Clause	Requirement + Test	er with my m	Result - Remark	Verdict

(T.7)	whitek wh	Tet white whi	white the	developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
Enclosure side (T.7)	Plastic*	See table 4.1.2	1000	Enclosure remained intact, no crack/ opening developed. Internal ES2, ES3, TS2, TS3 were not accessible after test. No insulation breakdown.
Supplementary	/ information:			

T.8 👋 TA	ABLE: Stress	s relief test	STEL N	St. NALL	when when when a P
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
Enclosure	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no crack/ opening developed. Internal ES3, TS3 were not accessible after test. No insulation breakdown.
Fire barriers	Plastic*	See table 4.1.2	70°C	7h	Enclosure remained intact, no crack/ opening developed. Internal ES3, TS3 were not accessible after test. No insulation breakdown.

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

X	TABLE: Alternati	ve method for determining	minimum clearances	distances P
Clearance	distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
et just	Intite white w	mur - m m	1 - 1 A	. Tet attet mire
Supplemer	ntary information:	· · · · · ·		
See Table	5.4.2, 5.4.3	when it it	at at at	ALTER MUTE MAIL

4.1.2 TA	BLE: Critical compone	ents information	- let set	TEX NITER WIT	N LT P N
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard ²⁾	Mark(s) of conformity ¹
Plastic enclosure	LG Chem Huizhou Petrochemical Co.,Ltd	AF312C	V-0, min. thickness 2.5mm, 70 °C,	UL 94	UL E476284
PCB	Interchangeable	Interchangeabl e	V-0, 130 °C	UL 796	UL



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an week	EN	IEC 62368-1	white white
Clause	Requirement + Test	Result - Remark	Verdict

Fire barrier	NAN YA PLASTICS CORP PLASTICS 3RD DIV	64140G5	V-0, min. thickness 0.75mm, 65 °C,	UL 94	UL E130155
Internal wire	Interchangeable	Interchangeabl e	30AWG, Min 80 °C, 30V	UL 758	UL
Battery lead wire	Interchangeable	Interchangeabl e	30AWG, Min 80 °C, 30V	UL 758	ULST
Li-ion Polymer Cell	DONGGUAN AIEN BATTERY TECHNOLOGY CO.,LTD	3866124	3.7V 4000mAh 14.8Wh	IEC 62133- 2:2017	Test report No. PTC220701 01102S- IE01
Wireless winding	HRSW ELECTRONICS CO.,LTD	A11	130 ºC, 6.8uH	EN IEC62368-1	Test with appliance

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

²⁾ License available upon request



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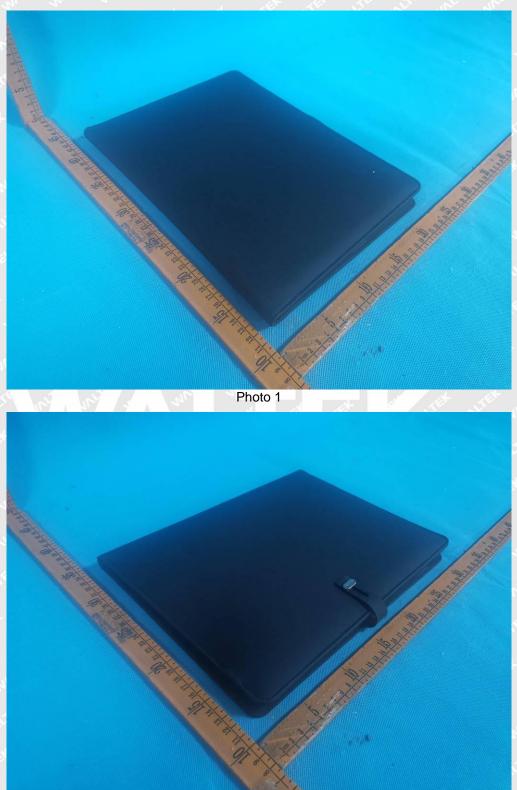
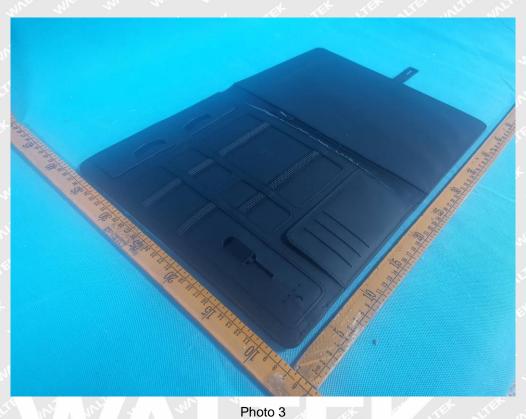


Photo 2



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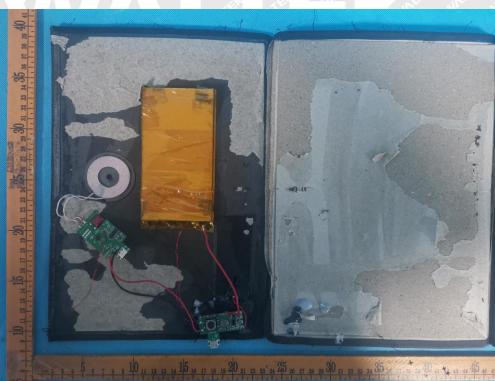


Photo 4



5

5

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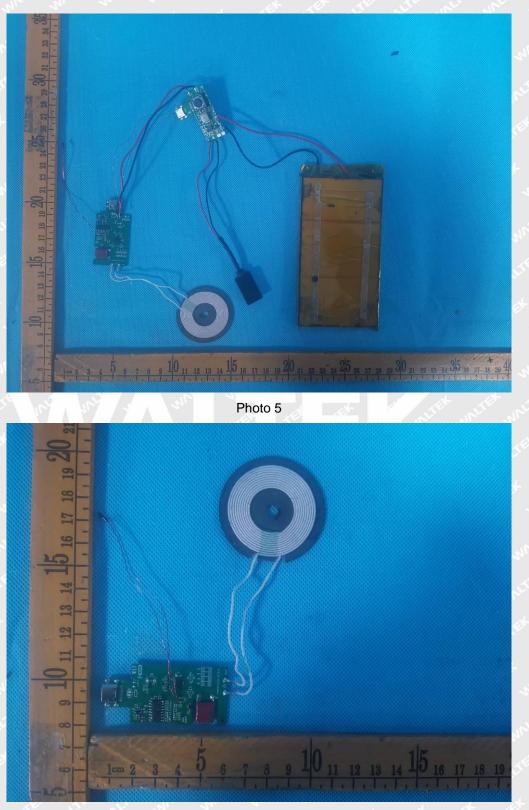
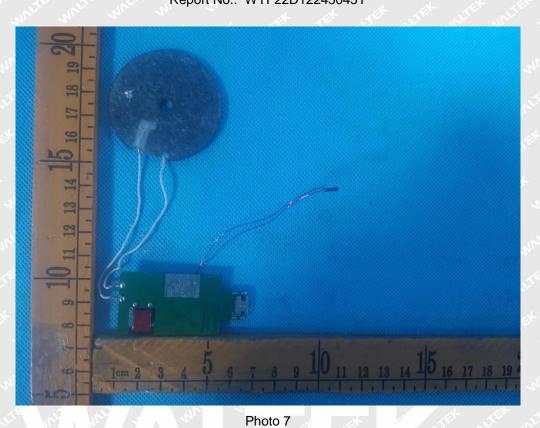


Photo 6



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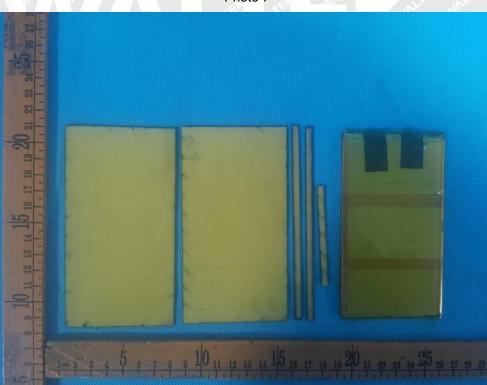


Photo 8



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Photo Documentation

Report No.: WTF22D12245045Y

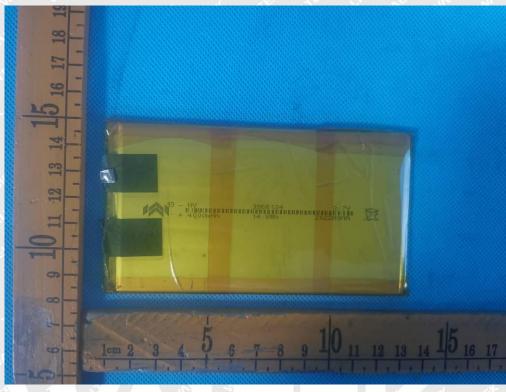


Photo 9

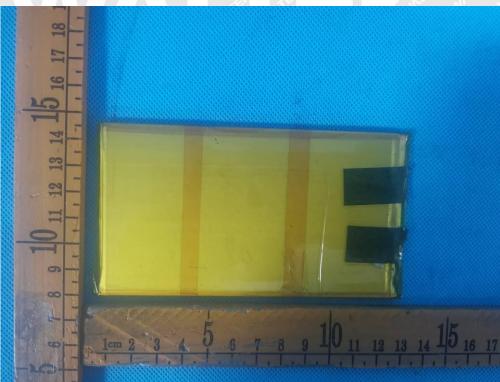


Photo 10

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