

TEST REPORT

Reference No	WTF21D08089114Y

Applicant: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... : 110075

Address : /

Product: TWS earbuds with charging base

Model(s).....: MO9838

Total pages...... : 62 + 7 pages of photo documentation

Standards : EN 62368-1:2014+A11:2017

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample : 2021-08-31

Date of Issue : 2021-09-30

Test Result: Pass

Remarks:

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

Prepared By:

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Compiled by: Approved by:

Gary Lin

Gary Liu / Project Engineer

Sam Qi / Designated Reviewer

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Test item description: TWS earbuds with charging base

Trademark: MOB

Model and/or type reference: MO9838

Rating(s) Input: charging base: 5V ===, 400mA (battery: 3.7V, 400mAh)

Earbuds: 5V ===, 35mA (battery: 3.7V, 35mAh*2)

Remark:

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes 🖾 No

If Yes, list the related test items and lab information:

Test items: Lab information:

Summary of testing:

Tests performed (name of test and test clause):

- EN 62368-1:2014+A11:2017 All applicable test

Testing location:

Waltek Testing Group Co., Ltd.

Address: No.77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Summary of compliance with National Differences:

List of countries addressed: National Differences and Group Differences for CENELEC countries were checked.

Copy of marking plate:

MO9838

PO4100106443

Frequency range: 2.4-2.48GHz Earbud Input: 5V 35mA MAX

Charging Box Input: 5V 400mA MAX

MOMANUAL.COM Maximum RF Power: 20dBm (EIRP)

RoHS **©**≥

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





Remark:

Above label for reference only, are the minimum requirements required by the safety standard. The final label marking on product shall contain the information at least. Name and address of the Importer AND Manufacturer must be affixed on the product when the product placed on the EU market. For the final productions, the additional marking which do not give rise to misunderstanding may be added.



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TEST ITEM PARTICULARS:	With Must Mar My My Mar Mary Mary		
Classification of use by:			
The state of the state of	☐Instructed person		
alter with white white wall was	☐Skilled person		
and an a set left that the	☐Children likely to be present		
Supply Connection	☐AC Mains ☐DC Mains		
The state of the state of	⊠External Circuit - not Mains connected		
est test lifet mitte unit war war	- ⊠ES1 □ES2 □ES3		
Supply % Tolerance:	<u>+10%/-10%</u>		
- LIER SLIFER WILL MULL MULL MALL W	<u>+20%/-15%</u>		
Mr. Mr. Mr. At 18t 15	☐+6%/ -10%		
a the side with white with white	None		
Supply Connection – Type:	pluggable equipment type A -		
TEX TEX STEX STEEL SHIPE SMITH WAY	☐ non-detachable supply cord ☐ appliance coupler		
The Mr. Mr. Mr.	direct plug-in		
of the state states outlier south south	mating connector		
mer me in in the	☐ pluggable equipment type B -		
tex tex stex with with white wh	non-detachable supply cord		
mil mil mil mil mil mil	appliance coupler		
	permanent connection		
Will May by A V Co.	☐ mating connector ☒ other: not directly connected to the mains		
Considered current rating of protective device as port	to the mains		
Considered current rating of protective device as part of building or equipment installation	Installation location: ☐building; ⊠equipment		
Equipment mobility	☐ movable☐ hand-held☐transportable☐ stationary☐ for building-in☐direct plug-in☐ rack-mounting☐ wall-mounted		
Over voltage category (OVC)			
the test and the state of the s	⊠other: not directly connected to the mains.		
Class of equipment	☐ Class I☐ Class II ☐ Class III		
Access location:	☐ restricted access location⊠ N/A		
Pollution degree (PD):	□PD 1⊠ PD 2□ PD 3		
Manufacturer's specified maxium operating ambient:	40°C		
IP protection class	.: ⊠ IPX0 □ IP20		
Power Systems	: ⊠ TN □ TT□ IT − V _{L-L}		
Altitude during operation (m)	⊠ 2000 m or less □ m		
Altitude of test laboratory (m):	: 🛛 2000 m or less 🗀 m		
Mass of equipment (kg):	☑ charging base: 0.038kg, earphone: 0.008kg		
POSSIBLE TEST CASE VERDICTS:	TEEK WILL MILL MILL MILL MILL MILL MILL		
- test case does not apply to the test object	N/A		

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- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING: A CONTROL OF THE CONTROL OF	and the same of the same of
Date of receipt of test item	2021-08-31
Date (s) of performance of tests:	2021-08-31 to 2021-09-10
GENERAL REMARKS:	A ST ST STEP
The test result presented in this report relate only to the o This report shall not be reproduced, except in full, without laboratory.	the written approval of the Issuing testing
The report would be invalid without specific stamp for test in	nstitute or the authority.
The report would be invalid without the signatures of report	er and reviewer.
"(see Enclosure #)" refers to additional information appen-	ded to the report.
"(see appended table)" refers to a table appended to the r	eport.
Throughout this report a \square comma / \boxtimes point is used	as the decimal separator.
GENERAL PRODUCT INFORMATION:	- TEX TEX STEX STEE WITH MILLS
Product Description	me m m
The equipment with model MO9838 is TWS earbuds with equipment;	th charging base which is classified as Class III
2. The charging base is powered by ES1/PS1 Micro-USB pearbuds are powered by ES1/PS1 charging box or ES1/PS	
3. The maximum operating temperature is 40°C.	A THE LIFE WITTER MITTER
Model Differences N/A	MILL MILL WITH THE STEET STEET
Additional application considerations – (Consideration	is used to test a component or sub-assembly)

N/A





ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
5Vdc input(charging base)	ES1 et jet lite nite mit unit u
Battery(charging base)	ES1
5Vdc input(earbuds)	EST THE NITE MET WALL WALL WALL
Battery(earbuds)	ES1 W

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)	
5Vdc input(charging base)	PS1 - Cot get at the mark man	
Battery(charging base)	PS1	
5Vdc input(earbuds)	PS1 SE STATE WITH WITH	
Battery(earbuds)	PS1	

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical		
N/A	N/A N/A		

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table

35.) Example: Wall mount unit

MS2

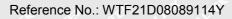
Source of kinetic/mechanical energy	Corresponding classification (MS)		
Sharp edges and Corners	MS1		
Equipment mass	MS1		

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner - thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
External enclosure	TS1





ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)		
Accessible parts (indicating lights)	RS1 A AN ANT STATE STATE STATE		
Acoustic energy source(sound pressure)	RS2		

Clause	Possible Hazard			JEK JEK
5.1	Electrically-caused injury	ry which was a second		
Body Part	Energy Source	at at	Safeguards	ik inliter sil
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	ES1: 5Vdc input (charging base) ES1: Battery(charging base) ES1: 5Vdc input (earbuds) ES1: Battery(earbuds)	N/A	N/AWANIEL WALEEL WALE	N/A
6.1	Electrically-caused fire		MULL MULL	10, 10,
Material part	Energy Source	Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
Internal combustible material	PS1: 5Vdc input (charging base) PS1: Battery(charging base) PS1: 5Vdc input (earbuds) PS1: Battery(earbuds)	N/A	INTER N/A CONTROL OF THE NAME	N/A
7.1 CIFE MILE WALLE	Injury caused by hazard	ous substance	S TEL TEL	CLIER WIFE
Body Part	Energy Source Safeguards		Safeguards	- A-
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			men m
Body Part	Energy Source	Safeguards		
	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	MS1: Sharp edges and Corners	N/A	N/A	N/A
Ordinary person	MS1: Equipment mass	N/A	N/A	N/A



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9.1	Thermal Burn			
Body Part	Energy Source	Safeguards		
(e.g., Ordinary) (TS2)	Basic	Supplementary	Reinforced	
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation	et Jet	ITER NITER MITE	Wery My
Body Part	Energy Source (Output from audio port)	Safeguards		
(e.g., Ordinary)		Basic	Supplementary	Reinforced
Ordinary (indicating lights)	RS1	N/A	N/A	N/A
Ordinary (sound pressure)	RS2	N/A	Instructional safeguard provided	N/A

Supplementary Information: (1) See attached energy source diagram for additional details.

(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault





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1000		, J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
N. W.	m m	IEC/EN 62368-1	MULL AND WILL
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	tex writer writer writer writer	Mr. P
4.1.2	Use of components	(See appended table 4.1.2)	IN P. W
4.1.3	Equipment design and construction	Mr. Mr. Mr.	Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	W. M. A.	y Par
4.4.4.2	Steady force tests	(See Annex T.4)	υP
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	THE MATER WATER WATER W	N/A
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard	(See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	the write must make my	Р
4.5	Explosion	No explosion	P
4.6	Fixing of conductors	2 34 24	N/A
4.6.1	Fix conductors not to defeat a safeguard	The The Little of	N/A
4.6.2	10 N force test applied to	any and any	N/A
4.7	Equipment for direct insertion into mains socket - outlets	LIER WHITE WHITE WHITE WHI	N/A
4.7.2	Mains plug part complies with the relevant standard	EK WALTER WALTER WALTER	N/A
4.7.3	Torque (Nm)	at at the text and	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell battery used	N/A
4.8.2	Instructional safeguard	the the the atterni	N/A
4.8.3	Battery Compartment Construction	Wer, Mr. Mr. M. M.	N/A
White M	Means to reduce the possibility of children removing the battery	TEX WHITEX WHITE WHITE	_
4.8.4	Battery Compartment Mechanical Tests	t get get with with	N/A
4.8.5	Battery Accessibility	Mer Me Me Me	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	WILLER MULTER MULTER WHITE ON	N/A

	5 ELECTRICALLY-CAUSED INJURY		Р	
12	5.2.1	Electrical energy source classifications	(See appended table 5.2)	N/A



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Olavis	IEC/EN 623	1 1/2 1/2 1/2 1/2 1/2	Manuflat
Clause	Requirement – Test	Result – Remark	Verdict
5.2.2	ES1, ES2 and ES3 limits	Considered as ES1	Р
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	N/A
5.2.2.3	Capacitance limits	My All All A	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 ringing signal generated	N/A
5.2.2.7	Audio signals	the state of the state of	N/A
5.3	Protection against electrical energy sources	LIEF WITE WILL MAIN WALL WAS	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	H STEEL STEEL MITEL SHITE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Tet Tet Tet Street	N/A
5.3.2.2	Contact requirements	me me me	N/A
MALTE	a) Test with test probe from Annex V	TEX LIEX OLIER WITER OF	N/A
	b) Electric strength test potential (V)	L. M. M. M.	N/A
WELL OF	c) Air gap (mm)	tex sites with while whi	N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements	White white	N/A
5.4.1.2	Properties of insulating material	- t	N/A
5.4.1.3	Humidity conditioning	MITE WALL WALL WALL V	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degree	Pollution degree 2 considered	, —
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	EL White Mile Mile Mile	N/A
5.4.1.5.3	Thermal cycling	TEX LIER NUTER MUTER	N/A
5.4.1.6	Insulation in transformers with varying dimensions	of the the the	N/A
5.4.1.7	Insulation in circuits generating starting pulses	WELL MENT WE ME AND AN	N/A
5.4.1.8	Determination of working voltage	(See appended table 5.4.1.8)	N/A
5.4.1.9	Insulating surfaces	ne me me	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	* Whitek whitek whiteh white	N/A
5.4.1.10.2	Vicat softening temperature	et let let let	N/A
5.4.1.10.3	Ball pressure	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances	et let let liet liet o	N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A



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01	Demineral Tell	Descrit Demonstr	Manaliat
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	N/A
la a	a) a.c. mains transient voltage	inter mer me in	_
iter anit	b) d.c. mains transient voltage	No such transient voltage	_
4 4	c) external circuit transient voltage	No such transient voltage	_
MULL	d) transient voltage determined by measurement	No need to conduct this test	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Procedure 2 considered	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	Clearance distance was evaluated for altitude up to 2000m above sea level	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	N/A
5.4.3.1	General	Mr. An. An An	N/A
5.4.3.3	Material Group	Material group IIIb is assumed to be used	_
5.4.4	Solid insulation	EX TEX TEX STEEL OUT	N/A
5.4.4.2	Minimum distance through insulation	The sure of the sure	N/A
5.4.4.3	Insulation compound forming solid insulation	ALTER MITE	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	THE LIP MINE MILE IN	N/A
5.4.4.6	Thin sheet material	m m m	N/A
5.4.4.6.1	General requirements	CIEX OLIER WILE MULTE MAIL WAS	N/A
5.4.4.6.2	Separable thin sheet material		N/A
ing in	Number of layers (pcs)	est neiter ineite while while	N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	white white whit with	N/A
5.4.4.6.5	Mandrel test	ITEK NITEK MITER MALTE MI	N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	TEX NITE WITE WALL WALL	N/A
5.4.5	Antenna terminal insulation	The state of	N/A
5.4.5.1	General	THE MILL WALL WALL	N/A
5.4.5.2	Voltage surge test	a sharp state	N/A
2115	Insulation resistance (MΩ)	WILL WILL MILL MILL A	
5.4.6	Insulation of internal wire as part of supplementary safeguard	STEE OUTER MUTER MUTER AND	N/A
5.4.7	Tests for semiconductor components and for cemented joints	at at all the talk the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
on the same	The same same same same same same same sam	TEL TEL STOR	right Mark
5.4.8	Humidity conditioning	ar my my	N/A
Write W	Relative humidity (%)	TEX STEEL STEEL SOUTH	White —
at d	Temperature (°C)	201 201 2	<i>*</i> –
r. mr	Duration (h)	alter mile while	une -
5.4.9	Electric strength test	70° 70° 74° 74° 74° 74° 74° 74° 74° 74° 74° 74	N/A
5.4.9.1	Test procedure for a solid insulation type test	WITE WILL MALL A	N/A
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit	The Multi Mil Mul	N/A
5.4.10.1	Parts and circuits separated from external circuits	White white white	N/A
5.4.10.2	Test methods	TER LIER WIER	N/A
5.4.10.2.1	General	Mr. M. M.	N/A
5.4.10.2.2	Impulse test	LIEK NITER WITER NO	N/A
5.4.10.2.3	Steady-state test	1. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	N/A
5.4.11	Insulation between external circuits and earthed circuitry	TER WILLE MULTER WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	In the	N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V)	mer mer mer a	
MALTER	Nominal voltage U _{peak} (V)	TEX JEX STEX IN	TER JALI —
, t	Max increase due to variation U _{sp}	in the shift	
Write Wh	Max increase due to ageing ΔU _{sa}	EX JIEX NITER JULIE	"WILLE -
at a	U _{op} = U _{peak} + ΔU _{sp} +ΔU _{sa}	211 211	.t -
5.5	Components as safeguards	ALIER MITE MILIE	When the M
5.5.1	General	70, 20	N/A
5.5.2	Capacitors and RC units	WITE WALL WALL ON	N/A
5.5.2.1	General requirement	a de de	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	The Maria Maria Maria	N/A
5.5.3	Transformers	ALTER WITE WITE	N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	White White White	N/A
5.5.6	Resistors	a st sit	N/A
5.5.7	SPD's	KITE WALL WALL WA	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	1 1 1 1 1	N/A



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Olavia	Deminerate Test	Dogult Dogundu	\
Clause	Requirement – Test	Result – Remark	Verdict
5.5.7.2	Use of an SPD between mains and protective earth	AT ME THE THE	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	where the same is	N/A
5.6	Protective conductor	Write Will AND M	N/A
5.6.2	Requirement for protective conductors	it it it is	N/A
5.6.2.1	General requirements	Write Auri Auri Au	N/A
5.6.2.2	Colour of insulation	at let let let	N/A
5.6.3	Requirement for protective earthing conductors	THE WALL WAS THE	N/A
n m	Protective earthing conductor size (mm²)	INLIE WHILE WALL A	_
5.6.4	Requirement for protective bonding conductors	a at at	N/A
5.6.4.1	Protective bonding conductors	WHITE WHITE WALL WAS	N/A
y Cliek	Protective bonding conductor size (mm²)	at at at all	·
27	Protective current rating (A)	her and and an	700
5.6.4.3	Current limiting and overcurrent protective devices	TEX WHITEK WAITER WHITEK	N/A
5.6.5	Terminals for protective conductors	A A A	N/A
5.6.5.1	Requirement	2 24, 24	N/A
NUTLE ANTIE	Conductor size (mm²), nominal thread diameter (mm)	BUTE WALL WHILE WALL	N/A
5.6.5.2	Corrosion	at at at the	N/A
5.6.6	Resistance of the protective system	LIE WALL WALL WAL	N/A
5.6.6.1	Requirements	it it let text	N/A
5.6.6.2	Test Method Resistance (Ω)	is murit muri muri	N/A
5.6.7	Reliable earthing	. Let tet tet a	N/A
5.7	Prospective touch voltage, touch current and pr	otective conductor current	N/A
5.7.2	Measuring devices and networks	THE THE LITTER WITH	N/A
5.7.2.1	Measurement of touch current	ive me in in	N/A
5.7.2.2	Measurement of prospective touch voltage	tet cet cret miles	N/A
5.7.3	Equipment set-up, supply connections and earth connections	t lit lit lit	N/A
	System of interconnected equipment (separate connections/single connection)	Mur. Mr. M. M.	-
- 1017 - 1017	Multiple connections to mains (one connection at a time/simultaneous connections)	White Mill man whi	- N
5.7.4	Earthed conductive accessible parts	LIEX NIFE WAITE WALLE	N/A
5.7.5	Protective conductor current		N/A



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	IEC/EN 623	68-1	
Clause	Requirement – Test	Result – Remark	Verdict
alle	The the second	THE STEE STEE IN	The West
	Supply Voltage (V)	1. 24 24 24 2.	
anin a	Measured current (mA)	EX STER OUTER WITH	murr —
at .	Instructional Safeguard	24 24	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	WALTER WALTER WALTER	N/A
5.7.6.1	Touch current from coaxial cables	THE THE STATE OF	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	in the text	N/A
5.7.7	Summation of touch currents from external circuits	The Mark 18	N/A
The Th	a) Equipment with earthed external circuits Measured current (mA)	White Mail Aug	N/A
r. Mr.	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	WHITE WHITE WHITE	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potenti	al ignition sources (PIS)	JIP P
6.2.2	Power source circuit classifications		Р
6.2.2.1	General	anti mili a	L P
6.2.2.2	Power measurement for worst-case load fault	(See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	P
6.2.2.4	PS1	(See appended table 6.2.2)	Р
6.2.2.5	PS2	(See appended table 6.2.2)	N/A
6.2.2.6	PS3	EX SLIFE WILL WALL WALL TO	N/A
6.2.3	Classification of potential ignition sources	The state of the s	N/A
6.2.3.1	Arcing PIS	NITE WILL WALL WALL .	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	JII P
6.3.1 (b)	Combustible materials outside fire enclosure	* ITEM OUTER OUTER MITE	N/A
6.4	Safeguards against fire under single fault conditi	ions	P
6.4.1	Safeguard Method	Method of control fire spread used	Pil
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	THE THE THE STEEL WAS	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	e in a state	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
ar i	The American Control of the	TER CIENTER N	The way
6.4.3.1	General	21 20 20 20 20	N/A
6.4.3.2	Supplementary Safeguards	LEK LIEK NLIER MLTE	N/A
STER SINT	Special conditions if conductors on printed boards are opened or peeled	o- Tex Tex ITEX	N/A
6.4.3.3	Single Fault Conditions	Mus Mrs My	N/A
MULTE	Special conditions for temperature limited by fuse	INLIER WHITER WHITER W	N/A
6.4.4	Control of fire spread in PS1 circuits	at at at a	N/A
6.4.5	Control of fire spread in PS2 circuits	With Mary Mary Mary	N/A
6.4.5.2	Supplementary safeguards	of the text of	N/A
6.4.6	Control of fire spread in PS3 circuit	in my m	N/A
6.4.7	Separation of combustible materials from a PIS	MILIER MILIER WHITER	N/A
6.4.7.1	General	··· A A A .	N/A
6.4.7.2	Separation by distance	Will Mill Mar M	N/A
6.4.7.3	Separation by a fire barrier	at let let di	N/A
6.4.8	Fire enclosures and fire barriers	in which the things	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	I ANTIE	N/A
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	Will Mill My M	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	LIEK WIFE WRITER WAS	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	1 1 A A	N/A
6.4.8.3.2	Fire barrier dimensions	E WILL MULL MULL	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	A STER STER MUTER	N/A
et let	Needle Flame test	20, 20	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	MITE WALLE WHILE WE	N/A
MUTTE A	Flammability tests for the bottom of a fire enclosure	atek whitek whitek whit	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	S MALTER WALTER WALTER	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	LIER OUTER MUTER	N/A
6.5	Internal and external wiring	211 211 34	N/A
6.5.1	Requirements	ALTER MALLE WALLE WAL	N/A
6.5.2	Cross-sectional area (mm²)		£ 2



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Clause	Requirement – Test	Result – Remark	Verdict		
-ar-	All	The site of the	in the same		
6.5.3	Requirements for interconnection to building wiring	at let let let	N/A		
6.6	Safeguards against fire due to connection to additional equipment	in mer and an	N/A		
74	External port limited to PS2 or complies with Clause Q.1	E MULL MILL MALL	N/A		

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A
7.3	Ozone exposure	No ozone production	N/A
7.4	Use of personal safeguards (PPE)	my my my m	N/A
LIE OF	Personal safeguards and instructions	THE THE LIFE OUTER	_
7.5	Use of instructional safeguards and instructions	Who will the text of	N/A
10	Instructional safeguard (ISO 7010)	VILL MUTT ME ME IN	_
7.6	Batteries	at let let let like	N/A

8	MECHANICALLY-CAUSED INJURY		JALI P NA
8.1	General	Edges and corners are classed as MS1	LIEK P
8.2	Mechanical energy source classifications	mer me me a	Р
8.3	Safeguards against mechanical energy sources	et tet tet alter aller all	P
8.4	Safeguards against parts with sharp edges and corners	No edges and corners	P
8.4.1	Safeguards	While Aut Aut My	N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	Must must any any	N/A
8.5.2	Instructional Safeguard	WILL MILL MILL AND AND	_
8.5.4	Special categories of equipment comprising moving parts	TEX NIEX WIFE WITER WITE	N/A
8.5.4.1	Large data storage equipment	The state of	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	MILL MILL WILL WILL	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	THE STEE WIFE WHITE W	N/A
8.5.4.2.2	Instructional safeguards against moving parts	M An and	N/A
Mun.	Instructional Safeguard	LITER WITE MALL MALL MAN	_
8.5.4.2.3	Disconnection from the supply		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Cidado	Troquironiant Tool	Troodic Tromain	Vordict
8.5.4.2.4	Probe type and force (N)	the me me in	N/A
8.5.5	High Pressure Lamps	No high pressure lamps	N/A
8.5.5.1	Energy Source Classification	711 711 6	N/A
8.5.5.2	High Pressure Lamp Explosion Test	enties with antie was	N/A
8.6	Stability	The state of the s	N/A
8.6.1	Product classification	WILL MULL MULL MULL	N/A
- The	Instructional Safeguard	L A At Att	3 -
8.6.2	Static stability	alter water water water v	N/A
8.6.2.2	Static stability test	at all all all a	N/A
7, 2,	Applied Force	Mure mure me me	_
8.6.2.3	Downward Force Test	t let tex tex tex	N/A
8.6.3	Relocation stability test	mer me me m	N/A
MILIE	Unit configuration during 10° tilt	TEX LIER ALTER OLITER	. in .
8.6.4	Glass slide test	an an an an	N/A
8.6.5	Horizontal force test (Applied Force)	THE STEET NOTES SOUTH AND	N/A
it i	Position of feet or movable parts		<i>d</i> –
8.7	Equipment mounted to wall or ceiling	mali wa	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	Life with white	N/A
8.7.2	Direction and applied force	The The Table	N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	1 1 1	N/A
8.8.2	Applied Force	TER INLIE WALLE WALL ON	N/A
8.9	Wheels or casters attachment requirements	No wheels or casters.	N/A
8.9.1	Classification	white white whi whi	N/A
8.9.2	Applied force	at the test of the	_
8.10	Carts, stands and similar carriers	No carts or stands or other carriers.	N/A
8.10.1	General	The intie water water w	N/A
8.10.2	Marking and instructions	and the set of the set	N/A
10 20	Instructional Safeguard	White Mail Mar Mr.	
8.10.3	Cart, stand or carrier loading test and compliance	NIEK MIEK WAITER WALTER	N/A
t Jet	Applied force	The state of	_
8.10.4	Cart, stand or carrier impact test	ALTE WALTE WALL WALL	N/A
8.10.5	Mechanical stability		N/A



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th.	IEC/EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
- Mr.	Applied horizontal force (N)	WITER WILLER WILLER WAY	r wer will		
8.10.6	Thermoplastic temperature stability (°C)	1 1 2t 2t 2	N/A		
8.11	Mounting means for rack mounted equipment	Not rack mounted.	N/A		
8.11.1	General	E STEE WITE WALTER	N/A		
8.11.2	Product Classification	20, 27, 34	N/A		
8.11.3	Mechanical strength test, variable N	RETER WALTER WALTER WI	N/A		
8.11.4	Mechanical strength test 250N, including end stops	TEX LIES MITES MILE	N/A		
8.12	Telescoping or rod antennas	No rod antennas.	N/A		
iner on	Button/Ball diameter (mm)	" ITER NITE INITE	- avr		

9	THERMAL BURN INJURY		P ₂
9.2	Thermal energy source classifications	Enclosure is classed as TS1	TEN PUTER
9.3	Safeguard against thermal energy sources	wife while when when our	N/A
9.4	Requirements for safeguards	at the set set set	N/A
9.4.1	Equipment safeguard	and the same and any	N/A
9.4.2	Instructional safeguard	Instructional safeguard is not required	N/A

10	RADIATION		Р
10.2	Radiation energy source classification	The indicating lights were RS1, the sound pressure was RS2.	EK PIET
10.2.1	General classification	The indicating lights were RS1, the sound pressure was RS2.	NALI W
10.3	Protection against laser radiation	No laser radiation	N/A
THE WILL	Laser radiation that exists equipment:	LIER SLIER WILL WHITE	_
et et	Normal, abnormal, single-fault	Mr. Mr. Mr.	N/A
Me	Instructional safeguard	SLIER WILL MILE WHILE WA	_
. TEX	Tool	a de de s	_
10.4	Protection against visible, infrared, and UV radiation	The indicating lights were RS1	WP V
10.4.1	General	A STEE WIFE WHITE WHITE	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	In the state of the	N/A
10.4.1.b)	RS3 accessible to a skilled person	WITE WITE WALL WILL IN	N/A
y Whitek	Personal safeguard (PPE) instructional safeguard	TEX LIEX NUTEX MITEX WAY	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	The indicating lights were RS1	PEK NITER SI



	IEC/EN 623	368-1	
Clause	Requirement – Test	Result – Remark	Verdict
all co	the same and the s	THE LIFE LITE WITH MAN	7/1/2
10.4.1.d)	Normal, abnormal, single-fault conditions	. The indicating lights were RS1	Р
10.4.1.e)	Enclosure material employed as safeguard is opaque	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation	. No UV.	N/A
10.4.1.g)	Materials resistant to degradation UV	. No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	. No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	ar ar the the	N/A
10.4.2	Instructional safeguard	. Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment	(See appended table B.3 & B.4)	N/A
70	Normal, abnormal, single fault conditions	WILL MULL MULL MAN !	N/A
LIFE	Equipment safeguards	at at left left .	N/A
10,	Instructional safeguard for skilled person	With Mer Aug Me And	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	TEK MITEK MALTER WALTER	-
Let S	Abnormal and single-fault condition	A A A A A A A A A A A A A A A A A A A	N/A
10	Maximum radiation (pA/kg)	Multi Multi	N/A
10.6	Protection against acoustic energy sources	The state of the s	JE P
10.6.1	General	The sound pressure was RS2.	Р
10.6.2	Classification	The sound pressure was RS2.	P
TEX S	Acoustic output, dB(A)	. Earphone: Left side: 96.97dB(A) Right side: 98.12dB(A)	P
1, 2,	Output voltage, unweightedr.m.s.	MULL WALL MAY WAY	N/A
10.6.4	Protection of persons	the tel tel tel	Р
k Vilek	Instructional safeguards	. The elements of the instructional safeguard is provided in the	P

person to RS2..... Means to actively inform user of increase sound pressure The symbol word "Tand the word "To prevent possible hearing damage, do not listen at high volume levels for long periods." are marked in the instruction manual. Equipment safeguard prevent ordinary person to RS2.....

instruction manual

Equipment safeguard prevent ordinary



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	IEC/EN 623	68-1	
Clause	Requirement – Test	Result – Remark	Verdict
. 100	Mr. Mr. Mr. Johnson	All All Marie Control	he me
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	at let the state of	N/A
10.6.5.1	Corded passive listening devices with analog input	Mer and an an	N/A
C# C#	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	MULLE MULL MULL MULL	_
10.6.5.2	Corded listening devices with digital input	SITER OUTER MALTER MALTE	N/A
. The	Maximum dB(A)		_
10.6.5.3	Cordless listening device	LIER WITE WILL MILL MILL W	JIP .
INLIEK WIN	Maximum dB(A)	Left side: 96.97, Right side: 98.12; less than 100dB	e* —

В	NORMAL OPERATING CONDITION TESTS, A CONDITION TESTS AND SINGLE FAULT CO		N. Ba
B.2	Normal Operating Conditions	TEX THE STIEF MITTER SIN	P
B.2.1	General requirements	(See summary of testing& appended test tables)	F PE
Co. Co.	Audio Amplifiers and equipment with audio amplifiers	No audio amplifier circuits	N/A
B.2.3	Supply voltage and tolerances	The Man	N/A
B.2.5	Input test	(See appended table B.2.5)	JE P
B.3	Simulated abnormal operating conditions	MULL MULL WALL WALL OF	Р
B.3.1	General requirements	(See appended table B.3&B.4)	P
B.3.2	Covering of ventilation openings	ice mer me me me	N/A
B.3.3	D.C. mains polarity test	et let let liet wife	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	P
B.3.6	Reverse battery polarity	The Au Au Au	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	INTER WHITE WATER WHITE WE	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions	a state of the	Р
B.4.2	Temperature controlling device open or short-circuited	No such controlling device	N/A
B.4.3	Motor tests	No such motors used	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	LIET SLIET WHEN SUITER SUN	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	P



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	Nesult – Nemark	Verdict
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)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	Mult mult mult mult	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	N/A
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	P
B.4.7	Continuous operation of components	Not intermittent or short-time operation equipment	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	THE STEEL STIFF STRIFES.	N/A
B.4.9	Battery charging under single fault conditions	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements		N/A
C.1.3	Test method	ALL MITE WALLE	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	LIFE WITE WALL WALL V	N/A
C.2.2	Mounting of test samples	The state of	N/A
C.2.3	Carbon-arc light-exposure apparatus	LIER WILL MULL MULL AND	N/A
C.2.4	Xenon-arc light exposure apparatus	and the state of	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	and the set of	N/A
D.2	Antenna interface test generator	WALLE WALL AND AND	N/A
D.3	Electronic pulse generator	at at get get	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONT	AINING AUDIO AMPLIFIERS	N/A
E.1 (1	Audio amplifier normal operating conditions	at let tet tet at	N/A
20.	Audio signal voltage (V)		_
المالية المالية	Rated load impedance (Ω)	* JEK JEK NIEK NIEK NIEK	_
E.2	Audio amplifier abnormal operating conditions	Me Me Me	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, A SAFEGUARDS	AND INSTRUCTIONAL	P.
F.1	General requirements	et tet tet tet tet	P
THE THE	Instructions – Language	Instructions in English are checked	-



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Clause	Requirement – Test	Result – Remark	Verdict
10/200	Mr. Mr. Will all Mr.	TEX LIE NITE MITE NO	1/1/2
F.2	Letter symbols and graphical symbols	e m m -	P
F.2.1	Letter symbols according to IEC60027-1	IER STER WILL WILL MALLE	Ju₁, b
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	The life life with	P
F.3	Equipment markings	Mr. Mr. Mr. M.	Р
F.3.1	Equipment marking locations	Located on the enclosure surface	LT PO
F.3.2	Equipment identification markings	no my my my	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	_
F.3.2.2	Model identification	See page 1 for details	
F.3.3	Equipment rating markings	See copy of marking plate	W.b.
F.3.3.1	Equipment with direct connection to mains	the state of	N/A
F.3.3.2	Equipment without direct connection to mains	See copy of marking plate	L. by
F.3.3.3	Nature of supply voltage	DC	_
F.3.3.4	Rated voltage	5V anti uni uni un	_
F.3.3.4	Rated frequency	The set set set set	_
F.3.3.6	Rated current or rated power	See copy of marking plate	_
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection	N/A
F.3.4	Voltage setting device	No such device	N/A
F.3.5	Terminals and operating devices	The It will will be	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet	N/A
F.3.5.2	Switch position identification marking	No such switch	N/A
F.3.5.3	Replacement fuse identification and rating markings	it mitte matter mitter matte	N/A
F.3.5.4	Replacement battery identification marking	at at at at	N/A
F.3.5.5	Terminal marking location	White Must Make Man.	N/A
F.3.6	Equipment markings related to equipment classification	ALTER MALTER MALTER MA	N/A
F.3.6.1	Class I Equipment	a state of	N/A
F.3.6.1.1	Protective earthing conductor terminal	TET UNLIF WALL WALL WALL WALL	N/A
F.3.6.1.2	Neutral conductor terminal	at the life of the	N/A
F.3.6.1.3	Protective bonding conductor terminals	WHILE MULL MULL MILL	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	at all test the	N/A
F.3.6.2.1	Class II equipment with or without functional earth	MULT MAY MAY WILL W	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	Hite Milit Milit Milit Milit	N/A
F.3.7	Equipment IP rating marking	EK ITEK SITEK OLITE MINIT	_



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~ ~	IEC/EN 623	14 14 14 14 14 14 14 14 14 14 14 14 14 1	
Clause	Requirement – Test	Result – Remark	Verdict
F.3.8	External power supply output marking	The Maria Maria	N/A
F.3.9	Durability, legibility and permanence of marking	EEK WALTER WALTER	unti un P
F.3.10	Test for permanence of markings	A A A	JI D
F.4	Instructions	Marie Marie Vinte A	Р
WALTER	a) Equipment for use in locations where children not likely to be present – marking	UNLIES WHITER WHITES WH	N/A
LIFER	b) Instructions given for installation or initial use	at at all a	P
10, 1	c) Equipment intended to be fastened in place	rie mir mur mir	N/A
INLIER JUN	d) Equipment intended for use only in restricted access area	ex united whitek whiteh	N/A
ITEK WALTE	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	MALIER WALLER WHITER W	N/A
Wille	f) Protective earthing employed as safeguard	TER STER STER OUT	N/A
a Lifeth	g) Protective earthing conductor current exceeding ES2 limits	A SH THE THE	N/A
14, 2,	h) Symbols used on equipment	in with Mur Mur	" Р
ALTER WALT	i) Permanently connected equipment not provided with all-pole mains switch	and the same	N/A
iek walter	j) Replaceable components or modules providing safeguard function	LIFE ALTE OFFICE	N/A
F.5	Instructional safeguards	See 10.6.4	L P
WILE Y	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	See 10.6.4	JIP JEST
G	COMPONENTS		Р
G.1	Switches	et et et	N/A
G.1.1	General requirements	No such switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et let ilet il	N/A
G.2	Relays	Mury Mury Mury My	N/A
G.2.1	General requirements	THE THE LIFE WITH	N/A
G.2.2	Overload test	The the this	N/A
G.2.3	Relay controlling connectors supply power	* ITEK SITEK MITET	N/A
G.2.4	Mains relay, modified as stated in G.2	14, 14, 6,	N/A
G.3	Protection Devices	LIFE CLIFE MLTER AND	N/A
G.3.1	Thermal cut-offs	14, 24, 24, 3	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	NITES WAITE WALLE WALL	N/A



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Clause	Doguiroment Test	Dogult Demant	Verdict
Clause	Requirement – Test	Result – Remark	verdict
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	of the the the	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	which the tity the	N/A
G.3.2	Thermal links	This will will will	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
21/2 21	Aging hours (H)	LIER WILL MILL MILL AND	_
All C	Single Fault Condition	is at at at a	<i>*</i>
The Charles	Test Voltage (V) and Insulation Resistance (Ω)	MULL MULL MAN MIN	_
G.3.3	PTC Thermistors	No PTC used	N/A
G.3.4	Overcurrent protection devices	The state of the	N/A
G.3.5	Safeguards components not mentioned in G.3.	1 to G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	TEX SITES MITES MILITER MINI	N/A
G.3.5.2	Single faults conditions	. (See appended Table B.4)	N/A
G.4	Connectors	the training which	N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration	THE WALL WALL WALL SAME	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	THE STEEL STEEL STREET STREET	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components	the nites intition with which	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	THE THE STEE WITH MITH	N/A
G.5.1.2 b)	Construction subject to routine testing	m m m	N/A
G.5.2	Endurance test on wound components	LIER LIER MLIER MALTE W	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	THE MITTER MITTER MALIE WAS	N/A
All S	Time (s)	S A A A A	<u></u>
Ve in	Temperature (°C)	intie mit with white	
G.5.2.3	Wound Components supplied by mains	at the lite tiet	N/A
G.5.3	Transformers	UNLIE WALL WALL WALL	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	SLICE DUTE MUTER WAITER ON	N/A
1	Position		



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Claves	IEC/EN 623	The state of the s	1/2
Clause	Requirement – Test	Result – Remark	Verdict
	Method of protection	The way we	
G.5.3.2	Insulation	EX LIER NITER WITE	N/A
A 1	Protection from displacement of windings	20, 24, 2,	
G.5.3.3	Overload test	- alter miter white w	N/A
G.5.3.3.1	Test conditions	20, 20,	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	WITE MILLE MALL AND	N/A
G.5.3.3.3	Winding Temperatures – Alternative test method	THE SLIES WITH MILES	N/A
G.5.4	Motors	. 4 st	N/A
G.5.4.1	General requirements	No such motors used	N/A
TEX TE	Position	The state of	TEX TEX
G.5.4.2	Test conditions	with white will we	N/A
G.5.4.3	Running overload test	a at at a	/ N/A
G.5.4.4	Locked-rotor overload test	WILL MULL AND MULL	N/A
aLTEK 1	Test duration (days)	at the fifth	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	and the sun	N/A
G.5.4.5.2	Tested in the unit	The sunting	N/A
IEK JIEK	Electric strength test (V)		(B) —
G.5.4.5.3	Tested on the Bench – Alternative test method; test time (h)	mere mer and an	N/A
Mur. 1	Electric strength test (V)	LIER WILL MULTE WALL	mr -
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	et liet with wites	N/A
G.5.4.6.2	Tested in the unit	411 421 4	N/A
ris were	Maximum Temperature	ALTER MLTER MALTER WI	N/A
et let	Electric strength test (V)	71 T	N/A
G.5.4.6.3	Tested on the bench – Alternative test method; test time (h)	Write Murre Murre Murr	N/A
الله المامان	Electric strength test (V)	TEX TEX NUTER INTER	N/A
G.5.4.7	Motors with capacitors	201 201 2	N/A
G.5.4.8	Three-phase motors	A STER WITER WAITE	N/A
G.5.4.9	Series motors	2, 2, ×	N/A
. Mur	Operating voltage	OLITER MALTER WALTER WAS	, 7, —
G.6	Wire Insulation	s A B B	N/A
G.6.1	General	HITE WILL WILL WILL	N/A
G.6.2	Solvent-based enamel wiring insulation		N/A



	IEC/EN 623	68-1	
Clause	Requirement – Test	Result – Remark	Verdict
ale .	dr. In the later of the later o	THE STEE STEE STEE	are in
G.7	Mains supply cords	in the transfer	N/A
G.7.1	General requirements	iek liek miter miter	N/A
A 1	Type	211, 22, 2	
	Rated current (A)	OLIER WALTER WALTER	mr. —
et jet	Cross-sectional area (mm²), (AWG)	The second second	A -
G.7.2	Compliance and test method	WEITER WALLE WALL ON	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	TEX SLIEK WITER MILE	N/A
G.7.3.2	Cord strain relief	711 74	N/A
G.7.3.2.1	Requirements	MITTER WITH WALLE	N/A
TEX JE	Strain relief test force (N)	1 x x	ARK —
G.7.3.2.2	Strain relief mechanism failure	WILL MILL MILL M	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	at at all a	et , —
G.7.3.2.4	Strain relief comprised of polymeric material	VILL MUTE MUTE AND	N/A
G.7.4	Cord Entry	at at alt of	N/A
G.7.5	Non-detachable cord bend protection	MUL MULL MILL	N/A
G.7.5.1	Requirements	it it it	N/A
G.7.5.2	Mass (g)	2 1 1/1	70.
ie with	Diameter (m)	The The William	.LTE" —
+ +	Temperature (°C)	Mr. Mr. Mr.	_
G.7.6	Supply wiring space	LIER OLIER WITE MAL	N/A
G.7.6.2	Stranded wire	74 7	N/A
G.7.6.2.1	Test with 8 mm strand	EX WILL WILL MILL	N/A
G.8	Varistors	July St.	N/A
G.8.1	General requirements	WILL WILL MULL A	N/A
G.8.2	Safeguard against shock	a de de	N/A
G.8.3	Safeguard against fire	WILL MULL AND AND	N/A
G.8.3.2	Varistor overload test		N/A

Varistor overload test..... G.8.3.2 N/A G.8.3.3 N/A Temporary overvoltage..... **G.9 Integrated Circuit (IC) Current Limiters** N/A Manufacturer defines limit at max. 5A. G.9.1 a) No such IC used N/A G.9.1 b) Limiters do not have manual operator or reset N/A G.9.1 c) Supply source does not exceed 250 VA G.9.1 d) IC limiter output current (max. 5A)..... G.9.1 e) Manufacturers' defined drift G.9.2 Test Program 1 N/A Waltek Testing Group Co., Ltd.

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Clause	IEC/EN 623	1.11. 11. 11. 11.	\/ond:=t
Clause	Requirement – Test	Result – Remark	Verdict
G.9.3	Test Program 2	the me me me	N/A
G.9.4	Test Program 3	EK TEK STEK KITEK MITE	N/A
G.10	Resistors	241 Apr 20 2 2	N/A
G.10.1	General requirements	No such resistors used	N/A
G.10.2	Resistor test	The The Table	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	MILITER WHITE WHITE WHITE WI	N/A
G.10.3.1	General requirements	TI MUTE AND AND AND	N/A
G.10.3.2	Voltage surge test	at the test tiest wife	N/A
G.10.3.3	Impulse test	mer me me m	N/A
G.11	Capacitor and RC units	- TEX STEX STEX DESTER	N/A
G.11.1	General requirements	Mr. Mr. M. M.	N/A
G.11.2	Conditioning of capacitors and RC units	TEX TEX STEE WITE OF	N/A
G.11.3	Rules for selecting capacitors	in an an	N/A
G.12	Optocouplers	TEX STEE WITE WITE WALL	N/A
NLIEK WALT	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	THE WALTER	N/A
EK STEK	Type test voltage Vini	The The	
40	Routine test voltage, Vini,b	Shrift Mrs. Mar. Mrs. Mrs. Mrs. Mrs. Mrs.	
G.13	Printed boards	et tet tet stet stet ni	P
G.13.1	General requirements	Approved Printed board used	P
G.13.2	Uncoated printed boards	et let liet sliet mile	P
G.13.3	Coated printed boards	Mr. Mr. Mr.	N/A
G.13.4	Insulation between conductors on the same inner surface	WALTER WALTER WALTER WALTE	N/A
ek walier.	Compliance with cemented joint requirements (Specify construction)	Complied with clause 5.4.4.5 item c)	
G.13.5	Insulation between conductors on different surfaces	TEK STEK NITER MITER WALTER	N/A
Jet A	Distance through insulation	W W A	N/A
ur, mu	Number of insulation layers (pcs)	A WILL MILL MILL MILL	_
G.13.6	Tests on coated printed boards	a sharp state	N/A
G.13.6.1	Sample preparation and preliminary inspection	WILL MULL MULL MULL OF	N/A
G.13.6.2a)	Thermal conditioning	L A At At A	N/A
G.13.6.2b)	Electric strength test	HILE MULL MULL MULL MILL	N/A
G.13.6.2c)	Abrasion resistance test	the state of the state of	N/A



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MULL	Mr. M. M.	IEC/EN 62368-1	Write Aut Aut.
Clause	Requirement – Test	Result – Remark	Verdict

G.14	Coating on components terminals	N/A
G.14.1	Requirements (See G.13)	N/A
G.15	Liquid filled components	N/A
G.15.1	General requirements	N/A
G.15.2	Requirements	-N/A
G.15.3	Compliance and test methods	N/A
G.15.3.1	Hydrostatic pressure test	N/A
G.15.3.2	Creep resistance test	JN/A
G.15.3.3	Tubing and fittings compatibility test	N/A
G.15.3.4	Vibration test	N/A
G.15.3.5	Thermal cycling test	N/A
G.15.3.6	Force test	N/A
G.15.4	Compliance	N/A
G.16	IC including capacitor discharge function (ICX)	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	STEE N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	N/A
C2)	Test voltage	_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	N/A
D2)	Capacitance	me me -
D3)	Resistance	Alt Alt -
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing signal	N/A
H.3.1.1	Frequency (Hz)	RLIFE MILIE
H.3.1.2	Voltage (V)	_
H.3.1.3	Cadence; time (s) and voltage (V)	MILITARY —
H.3.1.4	Single fault current (Ma):	L & _
H.3.2	Tripping device and monitoring voltage	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	N/A

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Clause	Requirement – Test Result – Remark	Verdict
1 1 1 1		The same
H.3.2.2	Tripping device	N/A
H.3.2.3	Monitoring voltage (V)	
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
	General requirements	N/A
K	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A
K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
4 24	Compliance	N/A
K.6	Mechanically operated safety interlocks	N/A
K.6.1	Endurance requirement	N/A
K.6.2	Compliance and Test method	N/A
K.7	Interlock circuit isolation	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	N/A
K.7.2	Overload test, Current (A)	N/A
K.7.3	Endurance test	N/A
K.7.4	Electric strength test	N/A
L	DISCONNECT DEVICES	N/A
L.1	General requirements	N/A
L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4	Single phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	P
M.1	General requirements	Р
M.2	Safety of batteries and their cells	P
M.2.1	Requirements	Р
M.2.2	Compliance and test method (identify method).	Р



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20,	IEC/EN 623	68-1	24, 24,
Clause	Requirement – Test	Result – Remark	Verdict
21/20 1	u. In	THE STEE WITH SHITE	The Mer
M.3	Protection circuits	70, 70	P
M.3.1	Requirements	THE LITTER WITHER WITH MI	ur P
M.3.2	Tests	(See appended table M)	P
ris. Mur.	- Overcharging of a rechargeable battery	CLIEB WILLER WALLE WALL	M. P.
EKWITEK	- Unintentional charging of a non- rechargeable battery	TEX LIEX SLIEK MILES	N/A
, t	- Reverse charging of a rechargeable battery	ne me me	N/A
WELL M	- Excessive discharging rate for any battery	THE LIE SLITE MITE	unti suibi
M.3.3	Compliance	(See appended table M)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery	White white white wh	un P
M.4.1	General	TER STER STER SUIT	NITE PAI
M.4.2	Charging safeguards	Mr. Mr. My My	Р
M.4.2.1	Charging operating limits	TEX ITEX STEX SUITE	P
M.4.2.2a)	Charging voltage, current and temperature	(See appended table M.4)	,
M.4.2.2 b)	Single faults in charging circuitry	(See appended table M.4)	VILL MUTTE
M.4.3	Fire Enclosure		A N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	A MILL MAL	Р
M.4.4.2	Preparation	THE CITY NATIONALLY	Pr
M.4.4.3	Drop and charge/discharge function tests	Mr. Mr. Mr. Sm.	Р
White w	Drop	THE LIEF NITES MITTER	Jr. JP
*	Charge	71/2 1/11	P/
WILL MY	Discharge	Et liet oliet will wi	Р
M.4.4.4	Charge-discharge cycle test	7/12 1/11 1/2	N/A
M.4.4.5	Result of charge-discharge cycle test	SLIFE NLIFE ARLIE ARLIE	N/A
M.5	Risk of burn due to short circuit during carrying	THE LIES LIFE MITTER	N/A
M.5.1	Requirement	The things to	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	TER LIER MILE MILE	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	t the the title of	N/A
M.6.1	Short circuits	my my my my	N/A
M.6.1.1	General requirements	THE STEE STEE STEE	N/A
M.6.1.2	Test method to simulate an internal fault	My My My M	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	NITER WHITE WAITER WALTER	N/A
M.6.2	Leakage current (Ma)	it at at the	N/A



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Clause	Dogwirement Took	h Domonic	\/andiat
Clause	Requirement – Test Result	t – Remark	Verdict
M.7	Risk of explosion from lead acid and NiCd batteries	all the tex site	N/A
M.7.1	Ventilation preventing explosive gas concentration	i my my m	N/A
M.7.2	Compliance and test method	White Mrs. White	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	STIFF WIFE WAITER OF	N/A
M.8.1	General requirements		N/A
M.8.2	Test method	nite unite white whi	N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s)	it will mur mur	_
M.8.2.3	Correction factors	t et et et	_
M.8.2.4	Calculation of distance d (mm)	Mrs. Mrs. Mrs. 2	_
M.9	Preventing electrolyte spillage	AR THE THE O	N/A
M.9.1	Protection from electrolyte spillage	age and any	N/A
M.9.2	Tray for preventing electrolyte spillage	Tex Jex Stee Wife	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	Et Mariet walter	N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
-m	Metal(s) used	mile wall with all	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND	CLEARANCES	N/A
2/1	Figures O.1 to O.20 of this Annex applied Consider	dered	
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN OB-	JECTS AND SPILLAGE OF	N/A
P.1	General requirements	a state of	N/A
P.2.2	Safeguards against entry of foreign object	WHILE MAIN MILLS	N/A
Et SITE	Location and Dimensions (mm)	let let stet s	_
P.2.3	Safeguard against the consequences of entry of foreign object	who we say the	N/A
P.2.3.1	Safeguards against the entry of a foreign object	MI WILL MAN WILL	N/A
ic. m	Openings in transportable equipment	TER WALLE MALLE MALL	N/A
TEX MALTE	Transportable equipment with metalized plastic parts	t still militar south	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	Whitek Miller Miller Mil	N/A
P.3	Safeguards against spillage of internal liquids No int	ernal liquids.	N/A



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Clause	Deguirement Test	Dogult Domork	Verdict
Clause	Requirement – Test	Result – Remark	verdict
P.3.1	General requirements	A THE THE THE THE	N/A
P.3.2	Determination of spillage consequences	EK LIEK SLIEK MLIE SINL	N/A
P.3.3	Spillage safeguards	W. W. W.	N/A
P.3.4	Safeguards effectiveness	SLIER WILL WHILE WHILE	N/A
P.4	Metallized coatings and adhesive securing parts	No metallized coatings or adhesive securing parts.	N/A
P.4.2 a)	Conditioning testing	ing my my man	N/A
UNLI V	Tc (°C)	TEX STEX WITE WITE W	<u>پ </u>
J+	Tr (°C)		<i>*</i> –
iner an	Ta (°C)	ex street writer writer while	_
P.4.2 b)	Abrasion testing	The set set	N/A
P.4.2 c)	Mechanical strength testing	WITE MALL MALL MALL	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		N/A
Q.1	Limited power sources	alter with me was	N/A
Q.1.1 a)	Inherently limited output	at at at the	N/A
Q.1.1 b)	Impedance limited output	in with my my	N/A
NLTER WILL	- Regulating network limited output under normal operating and simulated single fault condition	(See table annex Q1)	N/A
Q.1.1 c)	Overcurrent protective device limited output	THE LIFE MIN MITE	N/A
Q.1.1 d)	IC current limiter complying with G.9	m m m	N/A
Q.1.2	Compliance and test method	LIER WITER WITE WALL ON	N/A
Q.2	Test for external circuits – paired conductor cable	et jet sliet sliet sliet	N/A
	Maximum output current (A)	an an an a	_
Tr. Mrr.	Current limiting method	STER STEE WITE WITE STATE	_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements	ALTER MITE WALTE WALL V	N/A
R.2	Determination of the overcurrent protective device and circuit	TEX TEX STEX WITER W	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	t let the state of	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FI	RE	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	MULTER WALTER WALTER WALTER	N/A
Mr.	Samples, material	LITER WITE WALL WHILE IN	i2 —
	Wall thickness (mm)		<i>i</i> _



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Clause	IEC/EN 623	the the the training	Mardiet
Clause	Requirement – Test	Result – Remark	Verdict
	Conditioning (°C)	E. M. M. M.	
incia v	Test flame according to IEC 60695-11-5 with conditions as set out	EX UNITER WHITE WHITE W	N/A
LIET NAV	- Material not consumed completely	- THE THE LITTER WIT	N/A
- A	- Material extinguishes within 30s	me me in in	N/A
White	- No burning of layer or wrapping tissue	THE LIFE STEEL WITE	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	in the text that	N/A
20.	Samples, material	it mut me me	
NITES W	Wall thickness (mm)	the rest right restricts on	iter —
٠. ا	Conditioning (°C)	The The The	
The White	Test flame according to IEC 60695-11-5 with conditions as set out	White White white whi	N/A
WALTER	Test specimen does not show any additional hole	NATER MALIER WALTER	N/A
S.3	Flammability test for the bottom of a fire enclosure	IE STEET WIFE WATER	N/A
jet .	Samples, material		
10 10	Wall thickness (mm)	Marin wal	_
est de	Cheesecloth did not ignite	\$ A . (i)	N/A
S.4	Flammability classification of materials	Will Mile Mar Mar	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	LIET WHITEK WHITEK	N/A
الما المالي	Samples, material	EK TEK LITEK OLITEK AN	Life _
, ,	Wall thickness (mm)	24, 24, 4, 4	A -
in mi	Conditioning (test condition), (°C)	LIEK WITER WALTE WAL	_
K WILLER	Test flame according to IEC 60695-11-20 with conditions as set out	THE THE LIFE METER	N/A
N.LTEX.	After every test specimen was not consumed completely	at let telt stelt	N/A
TEX .	After fifth flame application, flame extinguished within 1 min	who we will	N/A
Γ	MECHANICAL STRENGTH TESTS		70, b
ŗd jir	General requirements	at the set of	N/A
Г.2	Steady force test, 10 N	(See appended table T.2)	N/A
Г.3	Steady force test, 30 N	Not applicable.	N/A
Γ.4	Steady force test, 100 N	(See appended table T.4)	Р
Γ.5	Steady force test, 250 N	(See appended table T.5)	N/A



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	IEC/EN	N 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
de	Mr. Mr. 21,	et the ite all the	We William
T.6	Enclosure impact test	The the second	N/A
MUTT. M	Fall test	LIER SLIER WITH WITH MILE W	N/A
at a	Swing test	m m	N/A
T.7	Drop test	(See appended table T.7)	Mr. Brit.
T.8	Stress relief test	(See appended table T.8)	TEL PUT
T.9	Impact Test (glass)	No glass used	N/A
T.9.1	General requirements	at the test the tiest	N/A
T.9.2	Impact test and compliance	Mr. Mr. Mr. M.	N/A
WELLE WIL	Impact energy (J)		J
at a	Height (m)	W. M. M.	<u>, </u>
T.10	Glass fragmentation test	WALTER MITTER WALTER WALTER	N/A
T.11	Test for telescoping or rod antennas	The state of the	N/A
275	Torque value (Nm)	EL NITE WALTE WALT WALT	z _n _
U	MECHANICAL STRENGTH OF CATHOD PROTECTION AGAINST THE EFECTS O		N/A
U.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non- intrinsically protected CRTs	str and and	N/A
U.3	Protective Screen	I'E' ALT' MITTO ANTI	N/A
V	DETERMINATION OF ACCESSIBLE PAR WEDGES)	RTS (FINGERS, PROBES AND	N/A
V.1	Accessible parts of equipment	Mr. Mr. M. M.	N/A
V.2	Accessible part criterion	it the the the	N/A



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TE WALL	They were with	IEC/EN 623	68-1	WILLE	Will Murit
Clause	Requirement – Test	Vile Muris And	Result – Remark	ot.	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to..... EN 62368-1:2014+A11:2017

Attachment Form No...... EU_GD_IEC62368_1B_II

Attachment Originator: Nemko AS

Master Attachment Date 2017-09-22

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r. Mr.	CENELEC C	OMMON MOE	DIFICATION	NS (EN)	Wille al	VII. WILL A	
ek unitek		clauses, notes, 62368-1:2014		ures and annexe	s which are a	idditional to	7E* 3
CONTENT S						on the	
IEK WALTER		e "country" note the following lis		erence documen	t (IEC 62368-	-1:2014)	LIFE
	0.2.1	Note	1	Note 3	4.1.15	Note	E.* .1
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	- wi
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	TEN
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	NV.
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	CIER .
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	21/2
NITER INL	For special n	ational condition	ons, see Ar	nnex ZB.	et let	JEN JEN	, str
T LIEK WALTER	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.					NITEK	



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IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.Z1 JUNETER JUNETER JUNETER JUNETER	Add the following new subclause after 4.9:	Sile Militaria, Mari	P
	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;	TEX WHITEK	MUNITER WALTER WAS TER
	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;	MUNITER MUTER MUTER	MILITER MILITER
	c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	ALTER WALTER WALTER WALTER	TER WATER WHITER
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	antife antife untifer and	NITER OF STEEL ON
5.4.2,3.2.4	Add the following to the end of this subclause:	74 7	N/A
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	ex untitle mutili white	White Wat
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	MILL MILL WAY	N/A



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IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1 TO.5.1 TO.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	ER LIER SLIER WILL	N/A
	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 presets 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.	whitek whitek whitek w	WINTER WITER WITER
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	t at all	- TEK LIEK
	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.	MALTER MALTER WALTER	MULTER WATER
	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.	NUTER WHITER WHITER WAS	LIER WATER MATE
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	TEL TEL	ALTEK INLIEK
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	_ 2	70 20 July 20 .
10.6.1	Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests	antifer untite while w	N/A
	methods and measurement distances apply.	in mer mer m	4
10.Z1	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	EX WHITEX WALTER WALTE	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	MILIER WALTER WALTER	amiter anite an
	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	TEX WHITEX WHITEX WHITEX	Whitek Whitek
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	White Multer and Lest and	N/A



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

<u> </u>	Tagamontoni Tool	70		4	
Diblicaroph	Add the following standards:	All Mark	the the way and the	711	
Bibliograph y					
ing in	Add the following notes for the standards indicated:				
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2.			124	
	10. 20. 0.			West M	
	IEC 60309-1 NOTE Harmonized as EN 60309-1.				
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.			CIET IN	
				3) 20.	
		monized as EN 606		TEX JEX	
			032:1998 (not modified).	11/2	
		monized as EN 615		+ 1+	
	(4)	monized as EN 615		White is	
		monized as EN 615			
	W. W. W. W.	monized as EN 615		CLIEN	
	IEC 61643-1 NOTE Harmonized as EN 61643-1.			2, 2,	
	IEC 61643-21 NOTE Harmonized as EN 61643-21.				
	IEC 61643-311 NOTE Harmonized as EN 61643-311.				
		monized as EN 616		of let	
aris ar	IEC 61643-331 NOTE Harmonized as EN 61643-331.				
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			J.	
4.1.15	Denmark, Finland, Norway a	nd Sweden	Not export to such counties	N/A	
	To the end of the subclause the following is added:				
	Class I pluggable equipment for connection to other equipments shall, if safety relies on connection to earthing or if surge suppresson between the network terminals parts, have a marking stating the equipment shall be connected mains socket-outlet.	ent or a network tion to reliable as are connected and accessible that the		o de suntre	
	The marking text in the applicable countries shall be as follows:			INTIL W	
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."			nitek wai	
	In Finland : "Laite on liitettävä varustettuun pistorasiaan"	suojakoskettimilla		TENNETE	
	In Norway : "Apparatet må tilko stikkontakt"	pples jordet		+ WALLER O	
	In Sweden: "Apparaten skall a	nslutas till iordat			



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	IEC/EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict			
4.7.3	United Kingdom	HITE WILL WAS	N/A			
Whitek W	To the end of the subclause the following is added:	IEK WALTER WALTER WALTE	White Whiter			
	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	WILLER WALTER WALTER	UNLIEK WALTER WAS			
5.2.2.2	Denmark After the 2 nd paragraph add the following:	ancie mic man m	N/A			
	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.	TEX WHITEK WHITE WHI	nut unt			

WATER ER

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	IEC/EN 623	68-1	
Clause	Requirement – Test	Result – Remark	Verdict
5.4.11.1	Finland and Sweden	LIE WILL WALL WALL	N/A
and Annex G	To the end of the subclause the following is added:	EX WILLEX WHILEX WHILEX W	LIELWALIE
	For separation of the telecommunication network from earth the following is applicable:	- ITEK SLIEK MITEK MI	ek waitek
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	while while while	WEITER WA
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	TEX MITER MUTER MITER	unties untie
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	y united whitely whitely wh	TEX WALTER
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the	WALTER WALTER WALTER	A WILLER ON
	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	NATER WHITER WHITER WHITER	white white
	• 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), and	THE WALLES WALLES	TEN MALTE
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	and wife while	uni ex wair
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	et wifet writer writer w	JUNITEY WALTEY
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	MULTER WILLER WALTER	ek miliek w
	• 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;	nuter uniter uniter uniter	MINTER WALTE
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	t with whilet whilet	TEK WALTER
	the impulse test of 2,5 Kv is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	JUNITER MUTER MUTER JULIE	WILLER AN



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IEC/EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
- Alex	My My My Lit	TER WELL WITH THE	The way	
5.5.2.1	Norway After the 3 rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	ER MUTER MUTER MUTER	N/A	
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: 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.	TER WHITER WHITER WHI	N/A	
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Whitek	N/A N/A N/A N/A N/A N/A N/A N/A	
5.6.4.2.1	Ireland and United Kingdom 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.	JUNITE WHITE WALTER WA	N/A	
5.6.5.1	To the second paragraph the following is added: 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 mm² to 1,5 mm² in cross-sectional area.	EX JUNITER WAITER WALTER	N/A STEEL ST	
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 Ma a.c. or 10 Ma d.c.	TEX UNITER WHITEK WHITEK	N/A	



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2/1	IEC/EN 623	68-1	he an an
Clause	Requirement – Test	Result – Remark	Verdict
-dre	Mr. Mr. Mr. Est	THE LIFE WITH MY	and the
5.7.6.1	Norway and Sweden	1 20 25 A	N/A
	To the end of the subclause the following is added:	IEX MULTER MULTER MULTE	MULLE MULL
	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.	UNLIER WALTER WALTER	Whitek Whitek Whi
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	the write whitek white	Whitek muritik
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	Whitek Whitek Whitek	nuit on its muit
	"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	TEK WALTER WALTER WALTE	ek waite waitek
	cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	antie antie white	nitek mitek uni
	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.	Et whitet whitet white	MILIE WALTER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	WHITEK WHITEK WHITE.	Muris Auris An
	"Apparater 41isa41I 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 41isa41Ilers en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish:	Mitek whitek whitek whitek	EX WHITEX WHITEX
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i 41isa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	MILIER WHITER WHITER WH	TEX MULTER WAY



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IEC/EN 62368-1					
Requirement – Test	Result – Remark	Verdict			
Danmant	Will will will will	NI/A			
To the end of the subclause the following is added:	SEX MILIER WALTER WALTE	N/A			
The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 Ma.	WHITEK WAITER WHITEK	MALIER MALIER O			
Ireland and United Kingdom	et let let	N/A			
The following is applicable:	ner, ane and an	20, 7			
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	LIEK WILIEK	EX WALLEY			
Denmark		N/A			
To the end of the subclause the following is added:	TEX MILES MILES MILE	Mur. Mur.			
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.	THE MILITER	White White V			
CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	unite white whitek whi	TEK WALTE WALTE			
If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase 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.	MATER WHITER WAITER	MULTER W			
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.	nites unites unites un	iter on ter onit			
Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	the main made makes	Mariet Mariet			
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	MUTER MUTER MUTER	Wite Writing on			
	TER STER WITER ON	in Mr. aur.			
	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 Ma. 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 Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheet DK 6-1a in DS 60884-2-D1 or EN 60309-2. 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. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 Ma. 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 Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance DS 60884-2-D1:2011 standard sheet DK 1-1a in DS 60884-2-D1 or EN 60309-2. 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 DK 1-1a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 5-172.			



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	IEC/EN 623	10, 10, 10, 1	37
Clause	Requirement – Test	Result – Remark	Verdict
- she		THE WITH MITHER	" Wer The
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:	ier muter mutter mutit	MULL MULL
LIFEK WALTER	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.	Whitek whitek whitek w	whitek whitek whi
G.7.1	United Kingdom	IF THE LITER OUTER	N/A
	To the first paragraph the following is added:	The The The	
	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.	Whitek whitek whitek wh	MUTER WILLER
nliek whi	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	THE PARTY	WALTER WALTER
G.7.1	Ireland		N/A
t whilet when the same the sam	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	White	nith white w
G.7.2	Ireland and United Kingdom	Mer Aug Mu	N/A
	To the first paragraph the following is added:	at at at	LIER STEEL ST
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	inite unit wais w	et with with



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		J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Ly Mur	in in in	IEC/EN 62368-1	ives Aver Aver
Clause	Requirement – Test	Result – Remark	Verdict

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
10.5.2	Germany	EL TEL STEE WITE WITE SINT	N/A
	The following requirement applies:	The My in	
	For the operation of any cathode ray tube	- TEK TEK LIEK NITER	White wh
	intended for the display of visual images operating at an acceleration voltage exceeding	were mer my	
	40 Kv, authorization is required, or application	A St Set Set	CIER OLI
	of type approval (Bauartzulassung) and	WILL MILL MINE MULT MI	20
	marking.	The state of the state of	et Jet
	Justification:	THE STEEL WITH MILL MILL	21/2
	German ministerial decree against ionizing radiation (Röntgenverordnung), in force since		*
	2002-07-01, implementing the European	it let liet wife wife wife	W. Wall
	Directive 96/29/EURATOM.	mer me in in	4
	NOTE Contact address:	At let tex ster	LITE ONL
	Physikalisch-Technische Bundesanstalt, Bundesallee 100,	WILL MULL MULL MAN A	1. 20
	D-38116 Braunschweig,	the state of the state of	CENT OF
	Tel.: Int +49-531-592-6320,	-LIER WILL MILL WILL MI	21/6
	Internet: http://www.ptb.de	10 20	L >+



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ľ	IEC/EN 62368-1				MUTTE MUST MILL
á	Clause	Requirement – Test	ALL M	Result – Remark	Verdict

4.1.2	TABLE: List of critical components					
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclo	osure	CHI MEI CORPORATION	PA-707(+)	HB, 60°C, min.thinkness:1.5 mm	UL 94, UL746	UL E56070
LITHIUM BATTERY	MALL	XinWei Power Supply (dongguan) Co., LTD	602040	3.7VDC, 400mAh	IEC 62133- 2:2017	Report No: TCTTJ20200 202965ZB- BR01
LITHIUM BATTERY	EN VI	Dongguan Xing Yue Electronic Co. Ltd	401214	3.7VDC, 35mAh	IEC 62133- 2:2017	Report No: LCS2008100 40AS
PCB	wi	SHENZHEN UNIWELL CIRCUITS CO LTD	UW02	V-0, 130°C	UL 94, UL 796	UL E314500
Alternative	-CT #2	Interchangeable	Interchangeable	V-0, 130°C	UL 94, UL 796	UL
Alternative Supplement	ary in	20, 10, 10,	Interchangeable	V-0, 130°C	UL 94, UL 796	UL

4.8.4, 4.8.5	TABLE: Lithium coin/button	cell batteries mechanical tests	N/A		
(The followi	ng mechanical tests are conducted	in the sequence noted.)			
4.8.4.2	TABLE: Stress Relief test	THE TO SELECT THE PROPERTY OF	_		
Part	The following mechanical tests are conducted in the sequence noted.) 8.4.2 TABLE: Stress Relief test Part Material Oven Temperature (°C)				
L 04-	TEX TEX STEE WITE V	mr. m. m.	- 11 18 18 18 18 18 18 18 18 18 18 18 18		
4.8.4.3	TABLE: Battery replacement t	est it it will not make	_		
Battery par	t no		_		
Battery Inst	tallation/withdrawal	Battery Installation/Removal Cycle	Comments		
LEF JE	LALIER MILE WALL WALL	1 1	TEK JEK J		
		TE STE NOT 2 NOT AND AND	The The		
		3 + 1	H TIEK STIE		
		STILL WILL MALL MALL WALL	211. 22.		
		5, 5,	ALTER OLITER		
		set a set on 6 and an	20, 20,		
		8 11 11	NUTER WITE WA		
		10 1 10 10 10 10 10 10 10 10 10 10 10 10			
		10 10	TER MILE WALL		



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IEC/EN 62368-1					
Clause	Requirement – Test	its whi m	Result – Remark	Verdict	

4.8.4.4	TABL	E: Drop test		
Impact Are	а	Drop Distance	Drop No.	Observations
LIEK WI	in whi	in mi me me	et set set set	LITER WILTER WA
**	- 4	FIFT SLIFE OLIER SOLIER	and and 2	at at a
Me	20 Co	Mr. Mr. Ch	THE STEEL STEEL WITE	MUT, MUT, MUT
4.8.4.5	TABL	E: Impact	Mr. And A. A. Cart	—
Impact surfa		Surface tested	Impact energy (Nm)	Comments
ur, an	- 41		# tiek stiek wite whit	The Attende
4.8.4.6	TABL	E: Crush test	The The Table	_
Test po	sition	Surface tested	Crushing Force (N)	Duration force applied (s)
mr	Me	1/11 1/11 7/11	TEX STEX STEE MATE N	VIL MUE - MUE
Supplemer	ntary info	ormation:	in the sail of	1 1 1

4.8.5	TABLE: L	ithium coin/button cell batterie	s mechanical test result	N/A
Test p	osition	Surface tested	Force (N)	Duration force applied (s)
TEN OUT	- 11 cl		at the state of	IN WILL WILL
Suppleme	entary informa	tion:	the mer were my an	



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TE WALL	Mir Aug Alex	IEC/EN 62368-1	Marie Mais
Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABL	E: Classificatio	n of electrical ene	rgy sources	et Jet	LIEK OLTE	P		
5.2.2	2.2 – Steady S	State Voltage and	Current conditions						
		Location (o. a		Parameters					
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class		
ı,	The Marin	Mr. Mer	Normal	5.0Vpk	TEK - TEK	DC	White !		
1	5VDC	Input circuit (charging	Abnormal	1/2 1/2	77,		ES1		
iner.		base)	Single fault – SC/OC	- white white	MUTTER ON	LIE WILL	Thr. M.		
T.E.	white whi	MULT MA	Normal	4.2Vpk	JOH J	DC	With White		
.2	4.2VDC	Battery		Battery (charging	Abnormal	aner one	24 - 24		ES1
7	NET WILL	base)	Single fault – SC/OC	LIEK WALTER W	TIER - WULLER	MULTE MY	ANCT.		
2112	E WALL	inti with	Normal	5.0Vpk	et tet	DC O	WILL W		
3	5VDC	Input circuit	Abnormal	ant our	20, 2		ES1		
Nite	wat.	(earbuds)	Single fault – SC/OC	LIE	2 21/2	ie wille	oner one		
Sec.	WILLE WA	27 2-	Normal	4.2Vpk	10-30	DC	Life WALTE		
4	4.2VDC Battery (earbuds)	Abnormal	Will Aug !	12 - 24	20, -2	ES1			
. Ul		Single fault – SC/OC	TEK WITEK W	TEK WILTER	White whi	WILL.			

5.2.2	5.2.2.3 – Capacitance Limits								
	Supply	Location (e.g.		Para	meters	0			
No.	Voltage	circuit designation)	Test conditions	Capacitance, Nf	Upk (V)	ES Class			
15	in in	10, 7 A	Normal	LIFE METER MALTE	Murit Aur. M	70,			
1	TEK LITEK.	ALTER WALTER	Abnormal:	. I d	TEN TEN ST	it intifeit			
731X	t till s	TEX WITER OUT	Single fault – SC/OC:	Muri - Muri	one one on				



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r	The Music	MULTE MILL MILL			
	Clause	Requirement – Test	Mur. M	Result – Remark	Verdict

5.2.2.4 – Single Pulses							
11/	Cumple	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (Ma)	ES Class
et-	EX STEX SLIFE WITE MILE		Normal	70, - 20,	74	ch -10t	16th - 17th
, v	10 m	7 - 7	Abnormal	NITER - NITE	while whi	Mut. M	7/1
31/2	TEX WALTER	WALTER WALTER	Single fault – SC/OC	EK TIEK	NLTEK-NALTER	white whi	WALTER
5.2.2	2.5 – Repetitiv	e Pulses					
	Cupply	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (Ma)	ES Class
j.	TEX TEX	CLIER WITE	Normal	10, 10	Ţ,	* *	CENT CENT
15	- m	20 - A	Abnormal	JEK - JIEK	Will - Will	mr. m	21/2
Mrs	EX WALTEX	ALTER WALTER	Single fault – SC/OC	et Jet	STEK - STEK	unit ^{ek} unit	* WALTER

Test Conditions:

Normal -

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit



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	10 N		q_1, q_2, \dots, q_n	and the second	* <i>A</i> T.	V
ß	" all		IEC/EN 623	868-1		Th.
ă.	Clause	Requirement – Test	it with the	Result – Remark	at 1	/erdict

6.3.2, 9.0, B.2.6	TABLE: Temperature measurem	nents (Only ch	arging bas	e charging)	TEK WALTE	MULTER
TEX SITE	Supply voltage (V)	5VDC	/-	4B	t -jet	_
27.	Ambient T _{min} (°C)	23.4	11/12 1	1 per 01 per	21/2	
EK MITE	Ambient T _{max} (°C)	24.6	J.F	EX -JEX	CLIEB II	_
76	T _{ma} (°C)	40.0	wr m	1/1/2	20, - 2	
Maximum m part/at:	neasured temperature T of	·	T (°	C)		Allowed T _{max} (°C)
NITER INIT	White with the the Fo	or charging bas	se -	Jek J	Et NITER	WITE OF
DC input ter	minal	44.1	Mer.	111 111	100	Ref.
L1 winding	MUT, MUT, MUT, MILL	43.5	(Tell	JEK LIE	Markey Co.	130
PCB near U	1 fet test street outlier w	44.6	m_ m		7	130
PCB near U	2	45.0	1761 <u>k</u> 117	Elt INTER	المالي تستميل	130
Surface of b	attery package	43.6	-10		24 X	Ref.
Internal encl	osure	42.9	IEK - LITER	WILL WA	ri. Avr.	Ref.
THE ITE		Ajust to 25°C			H TEN	CIEN 2
External end	closure	26.0		-100	10,	48

5.4.1.4, 6.3.2, 9.0, B.2.6	6.3.2, 9.0, were powered by charging base)					
21/2 21/2	Supply voltage (V)	5VDC	TER WILLEY	white wh	2400	_
JEX JE	Ambient T _{min} (°C)	24.3		A 1	* - Tex	_
70	Ambient T _{max} (°C)	24.8	10 Th	Vice Aver	11/2	_
EN WITER	T _{ma} (°C)	40.0	<i>#</i>	(E) - (E)	STEEL S	
Maximum r part/at:	neasured temperature T of		T (°	C)		Allowed T _{max} (°C)
211. 211	FC	or charging b	ase	Mer. M	111	1,, ,
DC input te	rminal	45.6	x - x	All the st	Et -JEt	Ref.
L1 winding	at the test outlier	45.0	Mari	21/2 - 21/L	4	130
PCB near L	J1 mil wat was	46.2	- Zet	JEH LIE	NE ER	130
PCB near U	J2 At Tet Tet MITE	46.7	2115 - 211	71,		130
Surface of b	pattery package	45.1	76t J	EF TEE	inli ^{re} .whi	Ref.
Internal end	closure	44.2	no m	'n' '	- J	Ref.

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r	The Music	Mr. Air Ail A	IEC/EN 623	68-1	MULTE MILL MILL
	Clause	Requirement – Test	Mur. M	Result – Remark	Verdict

	Ajust to 25°C	te on			
External enclosure	26.9	TER TOTER	antill an	ir anci	48
THE THE STIFF WITH SOUTH	For left/right ear	bud	- A- A	the fifth	TEX N
Surface of battery package	43.9	e with	المالية - المالية	21/2/	Ref.
Internal enclosure	42.5	ī	J 18+	15#	Ref.
M. W. A. A.	Ajust to 25°C	Write an	is. Mer	21/2 21	. 40
External enclosure	26.1	ر ر	4 +	16th 3	48

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurer earbuds were powered by charging		not chargi	ng and	ALTE P
IK WALTER	Supply voltage (V)	5VDC(earbuds) 4.2VDC(charging base)	y - TEX	anties an	_
TEX IS	Ambient T _{min} (°C)	23.6	, et	JEX- JE	_
10, 10,	Ambient T _{max} (°C)	24.8	21/2 1/	- 70	_
NITER VICTOR	T _{ma} (°C)	40.0	2 /	CENT THE	
Maximum r part/at:	neasured temperature T of	T (°C	;)		Allowed T _{max} (°C)
-20	A A A F	or charging base	. The	2/12 21	. 4
L1 winding	WILL MULL MULL MULL M	43.8	- 754	LUE CU	130
PCB near L	II, et set set mis	45.3	21/2	n n	130
PCB near U	12 mil min min	45.8	-UEL	LIER - NLIE	130
Surface of b	pattery package	44.2	n - n		Ref.
Internal end	closure	43.4	17 ⁶⁷⁶ ₁₀ 17	. What is	Ref.
et et	TEX SITES NITES INTES	Ajust to 25°C		. At	LEK JE
External en	closure	26.4	. 11 ⁴¹⁷	unio- un	48
	THE STEE STEE SOUTH SEC	or left/right earbud			
Surface of b	pattery package	43.3	1111 1	160 -015	Ref.
Internal end	slosure	42.1		Et -JEt	Ref.
11. 20.	at at at state	Ajust to 25°C	Vr. Mr.	2/L	10, 10,
External en	closure	25.8	dt - 1	T.C.	48
Supplemen	tary information:	Will Mill Mill Mill	t "Ex		TEK LITEK



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10 N			
The The		IEC/EN 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurer	nents (earbu	ds only at wo	rking mode) Life walte	MALTER
JEK SIF	Supply voltage (V)	4.2VDC		A	et -jet	_
- 70	Ambient T _{min} (°C)	23.5	Jun 12 W	r1/2	7/1	_
EK MITE	Ambient T _{max} (°C)	24.6		et - Jet	STEEL TO	_
7.6	T _{ma} (°C)	40.0	mr m	10.	20, - 2	
Maximum n part/at:	neasured temperature T of		T (°0	C)		Allowed T _{max} (°C)
NITER WALL	in which we will be	or left/right ea	rbud	TEX N	TEK STEK	INLIEE N
Surface of b	pattery package	44.2	, Mar	16 14.	10	Ref.
Internal enc	losure	43.0	- 1 27	JEK - LIE	- Nather	Ref.
e st	TEX TEX LIFE OUTER OF	Ajust to 25°0	C Mr. M	10	- J	at all
External en	closure	26.5	SEL ST	y TEN	write wh	48
Supplemen	tary information:	Muzz	THE THE	TEX	an aris	H SINLIEH

-9	Temperature T of winding:	t ₁ (°C)	$R_1(\Omega)$	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
	et get	1 / P	10			1-14	187	TEX - TIEN
	Supplementary information:	++	CIEN	ALTER OF	CIE WILL	White.	mr. m	7/1

5.4.1.10.2	TABLE: Vicat softening temperature	e of thermoplastics	is my my m	N/A
Penetration	(mm)		it the life wife	_
Object/ Par	t No./Material	Manufacturer/t rademark	T softening (°C)	
- 4	the second second	IET WALLE - WALL	me, me m. m.	7,
supplement	tary information:	* *	THE THE STEEL ST	ER WILLE

5.4.1.10.3 TABLE: Ba	II pressure test of thermople	astics	- Let S	N/A
Allowed impression diam	eter (mm)	≤ 2 mm	mr. m.	_
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	ameter (mm)
	Et TEX NITER WITE	with aut au	n. 10.	70
Supplementary information	on:	est cet cet	TEN OUTER	NITE WALTE



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r	TE WITTE	Merchanic and a	IEC/EN 623	368-1	MULLER	rite mai
	Clause	Requirement – Test	The The	Result – Remark	it.	Verdict

5.4.2.2, 5.4.2.4 and 5.4.3		LE: Minimu	m Cleara	nces/Cre	epage dista	ince	Writek My	TEK WILTE	N/A
Clearance (distance (cr)			Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required cr (mm)	cr (mm)
in white	¹¹ 5-7	21/2 21	- 41	-3	-et	18th 15	ek atter	intile in	CL MILL

Supplementary information:

Note 1: Provide Material Group IIIb

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

5.4.2.3	TABLE: Minimum Cle	arances distances using	required withstand	voltage	N/A
TEX JE	Overvoltage Category	(OV):	at the the	t Tex	STEEL SOL
711	Pollution Degree:	TEX LIEX MITE W	VILL MUT, MUT	711	n
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measu	red cl (mm)
at the	JEH - JEH WIFE IN	" " " " " " " " " " " " " " " " " " "	L	24 2	CH JET

Supplementary information:

BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

1) See appended table **5.4.2.2**, **5.4.2.4** and **5.4.3** for measurements.

5.4.2.4	TABLE: Clearances	s based on electric strength test				
Test voltag	e applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No		
,,	it it tet	TER IN WILL	24, 24, 24,			



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Clause	Requirement – Test	Result – Remark	Verdict

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: D	BLE: Distance through insulation measurements				N/A
Distance the insulation d		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
Et JEK	NITER IN	The wall - wall o	1 - 10.	£ 1		- 56th 55
Supplement *: See appe		tion: 4.1.2 for details.	JEK WALTER	White Mili	Aur. Aur.	THE THE

5.4.9	TABLE: Electric strength	tests		N/A	
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	
Basic/su _l	oplementary:	L LET TE	A STER STER WITER WITE	in while whi	
ن پ	t ret tet with wi	TER WITE MUE MU	111. 12.	A- A	
Reinforce	ed: un	TEK TEK	NITER INTER MALTE	white with	
d	TEK ITEK ALTEK MITE	MILL MUT - MU	10 T VF	et - let	
	entary information: rnative sources have been cons	sidered.	White White	MUT, MUT.	

5.5.2.2	2.2 TABLE: Stored discharge on capacitors						
Supply Vol (V), Hz	Itage	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	sification
Mrs	1/2 2	70	- At	JEH N	ik miter-unite w	in Mr.	- m.
☐Bleeding ☐ ICX: Notes:	rs installe g resistor	ed for testing a	are:				
A. Test Lo		are are	711		LET TEX STEX		
			e; Phase to Earth	n; and/or Neu	itral to Earth		
B. Operat	ing condi	tion abbreviat	ions:				
N – Norma	N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition						

	5.6.6.2 TABLE: Resistance of protective conductors and terminations						
	Acc	essible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
М	, ,,,		TEX MIXE WILL	MULL -MILL A	1. 1. 1.	T A	
<u> </u>	Supplementa	ary information:	*	at the	TER LITER OUT	EL MALL MALL	

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r	in mi	my my m	IEC/EN 623	68-1	MILL MILL MILL
×	Clause	Requirement – Test	The Main and	Result – Remark	Verdict

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive	N/A		
Supply vo	ltage	Mer Mer Aug Aug A		
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)	
Metal enc	losure	Lite with way was an	N/A	
		2*	N/A	
		CLIF WILL 3 WHE WAS	N/A	
		4	N/A	
		THE SITE SALL WALL WILL	N/A	
		6	N/A	
		TEX TEX 81 MILL WAL	N/A	

Supplementary Information:

N/A

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.
- N: Normal condition, R: Reverse condition.

6.2.2	Table: Electric	s (PS) measurement	s for classification	In the same	
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
12. 24	Input circuit	Power (W) :	2.10	in min - min .	20 20
A de	(charging	V _A (V) :	5.0	L 14 15-	PS1
	base)	I _A (A) :	0.42	unlik turk un	
y let	Battery cell (charging base)	Power (W) :	9.27	- 4	the set of
В		V _A (V) :	2.81	Will Will MU	PS1
		I _A (A) :	3.3		
wer w	charging	Power (W) :	3.85	LIET MILE WILL	Mr. Mr.
С	base output (as Earbuds	V _A (V) :	4.28	- 7	PS1
	input)	I _A (A) :	0.9	EF NITE NITE	
الى باير	- LET SET	Power (W) :	3.51	7, -	£ 24
D	Battery cell (earbuds)	V _A (V) :	2.34	The Title and	PS1
	(carbuds)	I _A (A) :	1.5	24, 24, 2	



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12 AU	Mr. Mr. Mr. A. St.	IEC/EN 62368-1	in the
Clause	Requirement – Test	Result – Remark	Verdict

6.2.3.1	Table: Determ	ination of Potential	nation of Potential Ignition Sources (Arcing PIS)				
		Open circuit voltage After 3 s	Measured r.m.s current	Calculated value	Arcing PIS?		
	Location	(Vp)	(Irms)	$(V_p \times I_{rms})$	Yes / No		
Inp	ut connector	WILL WILL WAS	14 7.	- Jt - Jt	Yes		

Supplementary information:

All primary circuit/components were considered as arcing PIS, the open circuit of all secondary components/ circuit were not exceeded 50V.

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.

6.2.3.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)					
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
UNLIE W	Ti mr.	24 - 74 - 1		LET - LET	LIFE - LIFE	LILE WALL W

Supplementary Information:

All primary/secondary components were 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, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High Pressure Lamp	Aug and	N/A
Descriptio	on	Values	Energy Source Classification
Lamp type	9:	mr. mr. m	- A
Manufacti	urer:	at at s	EK LIFE OLIFE WILL WHILE
Cat no		Wer Alver Alver	7 7 7
Pressure	(cold) (MPa):	At At Att	THE STEEL TO THE MINISTER OF
Pressure	(operating) (MPa)	The Maria Maria	211 211 12
Operating	time (minutes):	at at alt	TE STEE NEED SPEED WA
Explosion	method:	"WILL WITH A	n
Max partic	cle length escaping enclosure (mm).:	A At	TEK ITEK SITEK KITEK MINIT
Max partio	cle length beyond 1 m (mm):	WHIL WILL AND	m m _n
Overall re	sult	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tet life alies with
Suppleme	entary information:	nlik white whi	me me m



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in mi	The The The	IEC/EN 623	68-1	MULL MULL MILL
Clause	Requirement – Test	its whi m	Result – Remark	Verdict

B.2.5	TABLE: Inpu	ut test			P+		
U (V/Hz)	I (A)	I rated (A)	P (W)	P rated (W)	Condition/status		
5VDC (charging base)	0.382	0.4	1.91	EK WILLES	Only charging base powered by 5VDC with empty battery (at battery charging mode)		
4.2VDC (charging 0.128 0.4 base)		0.538	WALTER V	Charging base was not charging and			
5VDC (earbuds)	0.036	0.07	0.18	WILLE AN	earbuds were powered by charging base		
5VDC (charging base)	0.42	0.4	2.10	EX WILEX	Charging base charging while earbuds were		
5VDC (earbuds) 0.037 0.07		0.185	NULTER W	powered by charging base			
4.2VDC (earbuds) 0.04 0.07		0.168	MITEH MAI	Earbuds were only working, powered by Li- ion Battery (Discharging mode with fully charged battery)			



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	10 N		$q_1 = q_1$		<i>5</i>	
S	- m	111. 12.	IEC/EN 623	68-1	Mr. M	100
	Clause	Requirement – Test	it with the	Result – Remark	et i	Verdict

B.3	TABLE: A	onormal o	perating cor	ndition	tests			Ļ P ,⊬
Ambient ten	nperature (°	C)				: See b	elow	_
Power source for EUT: Manufacturer, model/type, output rating .: See cover page for details								
Componen t No.	Abnormal Condition	Test time (ms)	Fuse no.	Fuse current (A)	T- couple	Temp. (°C)	Observatio n	
For charging base								1 1
Output + to	overload	1hour30mi ns	WALTER WALTER TEX W	1.32	J type	PCB near U2: 47.9°C Surface of battery package: 46.0°C Ambient: 40.0°C External enclosure:27.2°C Ambient: 25.0°C	Base output Max overload current is 0.8A, over 0.8A unit shut down immediatel y, no hazard. No damage, no hazard.	

B.4	TABLE: Fault condition tests								
Ambient temp	erature (°	C)				40.0		_	
Power source	Power source for EUT: Manufacturer, model/type, output rating See cover page for de								
Component No.	Fault Conditi on	Supply voltage, (V)	T- couple	Temp. (°C)	Observatio n				
	For charging base								



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r	TE WITTE	IEC/EN 62368-1							
	Clause	Requirement – Test	The The	Result – Remark	it.	Verdict			

B+ to P-	short circuit	5VDC	7hours	unites unites	0.388	unlite*	onlifet unlifet w	Unit work normally, no damage, no hazard.
B- to P-	short circuit	4.2VDC	7hours	LTEK V K	0.132	in and	or white white	Unit work normally, no damage, no hazard.
P+ to P-	short circuit	5V/4.2V DC	10mins	WALTE WALTER SER W	0.001	Junites Street	White white w	The battery cannot charge or discharge, no explosion, no chemical leaks.
1 1 A	6° 56		nite unit	For ear	buds		1 1	A 18
B- to P-	short circuit	4.2VDC	7hours	VILLE TEX	0.046	WHITE	onliek un	Unit work normally, no damage,
B+ to P-	short circuit	5VDC	7hours	TEX -ur	0.038	e whi	White white	no hazard. Unit work normally, no damage, no hazard.
P+ to P-	short circuit	5V/4.2V DC	10mins	WALTER WALT WALTER WALT	0.001	MULTER WA	ANTER WALTER WALTER	The battery cannot charge or discharge, no explosion, no chemical leaks.

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) The Hi-pot test conducted successfully after the completion of fault condition test.
- 3) *: For fault where fuse opened, tested were repeat nine times and same result was obtained.
- 4)No ignition during and after all tests.



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Victor Musil	The me all w	IEC/EN 62368-1	With Mile Mile
Clause	Requirement – Test	Result – Remark	Verdict

Annov M	TABLE: D	-44-wiss /	for all overing	hand (F	-11-17-	11 11 11	20° 110	-111	
			for charging				at d	L (6)-	P
The tests of A						data is no	It is import to install battery in reverse position	essible the	N/A N/A
	Non-re	chargeab	le batteries		F	Rechargea	ble batteri	es	
	Discharging Un-		Chai	ging	Disch	arging	Reverse	d charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
1) Imax in normal condition	MULTER W	VILLER - MU	LIEK VINLIER	381mA	400mA	128mA	400mA	NITEK W	TIEK WINT
2) Imax in fault B+ to P- short circuit (overcharge)	TEK WAL	Whitek	White Will	385mA	400mA	uni <u>r</u> ek sitek si	ALTEK MITE	SEK WALT L WALTER	AND TEX
3) Imax in fault B- to P- short circuit (overdischar ge)	n n	MITTER N	and the second	MITER MITER	LIFE TO THE	132mA	400mA	unitek uni	STEE WA
Test results:	٠ ٠/٠		LEF NO	E MIT	aner .	aler al	- 40.	70	Verdict
- Chemical le	aks	aller.	The An		14	Alt A	et Je	NITE'	JAN P
- Explosion of	f the batte	ry 👉	TEN STE	MILIE	mr. an	21/2	211	7,1	Р
- Emission of	flame or e	expulsion	of molten me	tal	et s	EK TEK	ALTER	INLITED I	NITE PAINT
- Electric stre	Electric strength tests of equipment after completion of tests								P
Supplementa	ry informa	ition:	10,	A	it let	TEN	ALTER OF	Life Wil	WILL



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r	TE WATE	IEC/EN 62368-1							
	Clause	Requirement – Test	VILL MUT. AM	Result – Remark	, de	Verdict			

1/12 (1)	11/4		-41, -7,	ن ر	- 264	(100	J 6 10		111
Annex M	TABLE: B	atteries ((for earbuds)	MILE	They	11 13		۷. ۲	P.
The tests of A	Annex M a	re applica	able only whe	n appropria	ate battery	data is no	t available	MILLE	N/A
Is it possible	to install th	he battery	in a reverse	polarity po	sition?:	iek white	It is import to install battery in reverse position	the n a	N/A
	Non-re	chargeab	le batteries		F	Rechargea	ble batteri	es	
	Disch	arging	Un-	Chai	ging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
1) Imax in normal condition	NU TEK W	TILE <mark>T</mark> OIL	TEK VIOLIER	36mA	70mA	40mA	70mA	Writek Zu	TIEK MUT
2) Imax in fault B+ to P- short circuit (overcharge)	TEK WAS	VINLT VINLTER VINLTER	white with	38mA	70mA	anifek (a)	ALTEK MILEK	STEP WILL	WALTER OF
3) Imax in fault B- to P- short circuit (overdischar ge)	ny si	septime	er ier	MITER MITER	ur Life ex	46mA	70mA	unlitek unitek	TEL WALTE
Test results:			ک جات ک			-11 ² -11	- 44	<i>1</i> v.	Verdict
- Chemical le	aks	all Cities	War Aug	-412	-2 ₁ , .	.t	# 4B	- 16	P
- Explosion o	- 37	rv	A 18	CLITE!	Writing of	15 M	100	11/00	P
			of molten me	tal	A	.t .d	A COMP	Clest	SUP PURE
		•	nent after con		toete	711.02	10/2/	21/2/2	P
			nent after CON	ipielion oi	10010		A 47	. 1 × ×	
Supplementa	ary intorma	ation:		1 1 N	J. J.C.		10 ch 11	The sales	7/1



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Victor Musil	The me all w	IEC/EN 62368-1	With Mile Mile
Clause	Requirement – Test	Result – Remark	Verdict

Battery/Cell	Test condition	ons	Measurements				Observation	
No.			U	I (A)	Те	Temp (C)		
602040	Normal	ex white	4.2VDC	0.128	ıA)	9.2°C mbient: 6.0°C)	The charging voltage does not exceed 4.20V and the charging current does not exceed 400mA	
	Single fault – B- to P- SC		4.2VDC	0.132	29.5°C (Ambient: 25.0°C)		The charging voltage does not exceed 4.20V and the charging current does not exceed 400mA	
401214	Single fault – B- to P-SC						The charging voltage does not exceed 4.20V and the charging current does not exceed 70mA	
401214			4.2VDC	0.046	(Ar	9.6°C mbient: 5.0°C)	The charging voltage does not exceed 4.20V and the charging current does not exceed 70mA	
upplementary li	nformation:	10	-3	st st	zet.	A Contract	LITER OUTER	
Battery identification	Charging at T _{lowest} (°C)	Obs	ervation	Charging at T _{highest} (°C)		0	bservation	
02040	<0 st		ry current: '8mA	>45	-un	•	harging, battery current: 0	
01214	<10		ry current: 2mA	>45 Stop c		harging, battery current: 0		

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in mi	The The The	IEC/EN 623	68-1	MULL MULL MILL
Clause	Requirement – Test	its whi m	Result – Remark	Verdict

Annex Q.1	TABLE: Circuits i	TABLE: Circuits intended for interconnection with building wiring (LPS)					
Note: Meas	ured UOC (V) with a	Il load circuits d	isconnected:	SUFF INC	WILL WILL	21/2	
Output	Components	Components U _{oc} (V)	I _{sc} (A)		S (VA)		
Circuit			Meas.	Limit	Meas.	Limit	
et Jet	-LIFER WITE OR	in min	, 77, ,	- A	at - at	TEX-	
	10. 20.		t the	The Carle	ALL SALL	12 - 72/11	

TEX STEX	force test			1 1 1
Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Plastic	Min.1.5	100	St mist mil	Enclosure remained intact.
	ar an	(mm)	(mm) (N)	(mm) (N) (sec)

T.6, T.9	ABLE: Impact tes	sts	S .		LEX.	TER .	N/A
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation			
" " " " "	2,-	<i>L </i>	if all the mile	" WILL WA), ⁽¹ 10,	ale.	21/2
Supplementary	/ information:	White Mr.	70. 2.	- L 0	t set	10	CLER

.7 TABLE: I	Drop tests		P
Part/Location	Drop No.	Drop Height (mm)	Observation
Тор	White Walter W	1000	No damage, no hazard
Side	2	1000	No damage, no hazard
Bottom	11 N/3 N/L	1000	No damage, no hazard

T.8 T	ABLE: Stress reli	ef test	LIER OLIER	UNLIE WALLE	We Aug Aub
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Plastic enclosure	of the sa	Min.1.5	70 m	White will	No damage, no hazard
Supplementary	y information:	- 40 - 40 - A	- c+ ce+	TEK LIEK	CLIEF WILL WALLE

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Photo 1



Photo 2







Photo 3



Photo 4







Photo 5



Photo 6





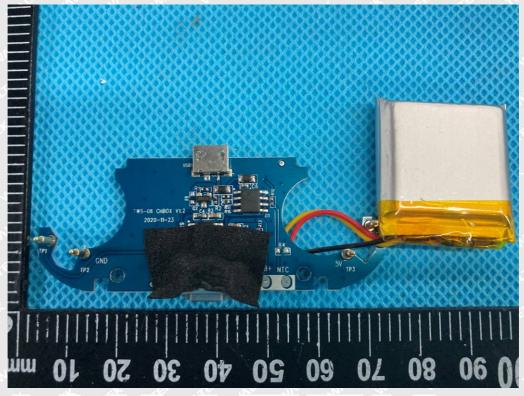


Photo 7

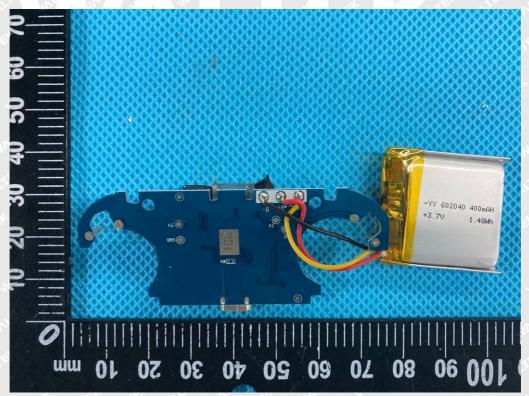


Photo 8











Photo 10

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Photo Documentation

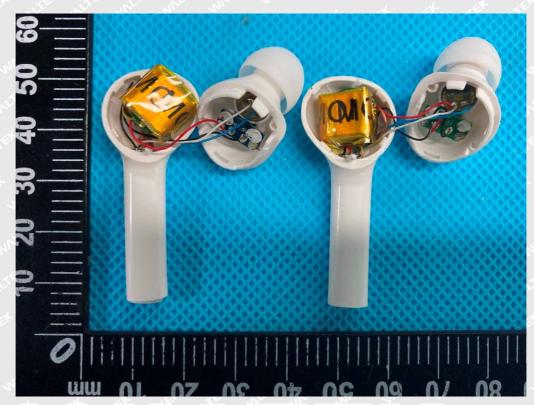


Photo 11

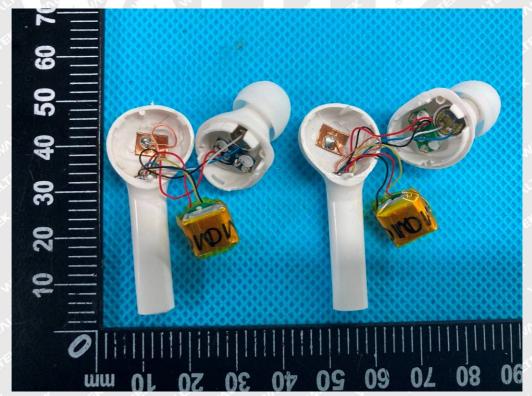


Photo 12



Reference No.: WTF21D08089114Y



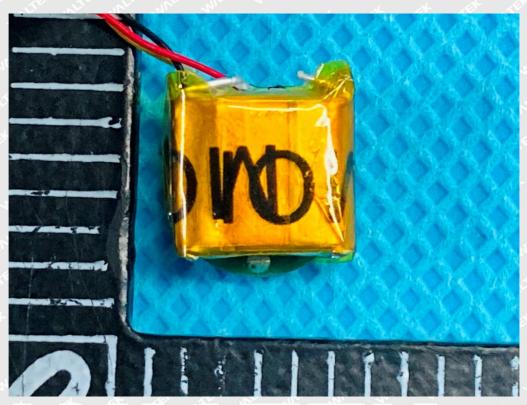


Photo 13

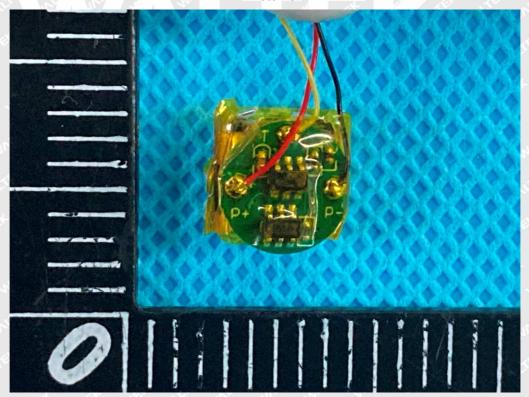


Photo 14

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

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