# LVD REPORT

#### EN 62368-1

# Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number.....: TMC210713105-S

Date of issue...... July 28, 2021

Total number of pages...... 49

Street, Fenghua District, Ningbo City, Zhejiang Province

Test specification:

Standard..... EN 62368-1:2014+A11:2017

Test procedure...... Type test

Non-standard test method.....: N/A

Test Report Form No.....: IEC62368\_1B

Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

#### General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test Item description:	Background music controller	
Trade Mark:	ENWISE SMARTHOME	(1)
Manufacturer:	NINGBO WISE ELECTRONIC TECHNOLOGY CO., LTD. 13-104, Huiding Chuangzhi Park, 277 Shengyuan Road, Jiangkou Street, Fenghua District, Ningbo City, Zhejiang Province	7
Model/Type reference:	X8, U1, U4, U5, X4, X5, X6, X7, B7, B8, B10, G7, G10, F4 F7, F10, T7, T8, T10, S100	I,
Ratings:	100-240V~, 50/60Hz, 1.0A	
Testing procedure and testing location:	1p, 1p, 1p, 1p,	
☐ Testing Laboratory:	TMC Testing Services (Shenzhen) Co., Ltd.	
Testing location/ address:	1st Floor, Block A1, Zone A, Xinshidai Gongrong Industria Park, No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen, China	
Associated CB Testing Laboratory:	On On On	4
Testing location/ address:	Lin, Lin, Lin, Lin,	1
NC THIC THIC THIC	Till Bert Deng	(P
	cen veny	
Tested by (name + signature):	Bart Deng	
Tested by (name + signature):	Bart Deng  Seven Lin	(1)



## List of Attachments (including a total number of pages in each attachment):

Attachment 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES. (3 pages)

Attachment 2: Photo document.

#### Summary of testing:

# Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

#### **Electrical safety:**

- > IEC 62368-1:2014 ED2
- EN 62368-1:2014+A11:2017

# **Testing location:**

TMC Testing Services (Shenzhen) Co., Ltd.

1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen, China

## **Summary of compliance with National Differences:**

List of countries addressed: National Differences and Group Differences as per CB bulletin.

☐ The product fulfils the requirements of \_\_\_\_EN 62368-1:2014+A11:2017

#### Copy of marking plate:

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

**Background music controller** 

Model: X8

Input: 100-240V~, 50/60Hz, 1.0A

Importer: XXXX Address: XXXX



NINGBO WISE ELECTRONIC TECHNOLOGY CO., LTD.

MADE IN CHINA

#### Remark:

- 1) The height of CE mark shall be at least 5mm, the height of WEEE mark shall be at least 7mm, the height of letters shall be at least 2mm.
- 2) "Manufacturer or/and his importer shall ensure product bears label requirements in article 6 and article 8 of the 2014/35/EU relate to name, batch number, post address prior place the product into EU market."



TEST ITEM PARTICULARS:		
Classification of use by	177	<ul> <li>✓ Ordinary person</li> <li>☐ Instructed person</li> <li>☐ Skilled person</li> </ul>
and and and and	W.	<ul><li>☐ Skilled person</li><li>☐ Children likely to be present</li></ul>
Supply Connection	:	
ALC WIC WIC WIC	- N	<ul><li>□ External Circuit - not Mains connected</li><li>- ☑ ES1 □ ES2 □ ES3</li></ul>
Supply % Tolerance		
AUC LAUC LAUC LAUC	No.	□ +20%/-15% □ +%/% □ None
Supply Connection – Type	:	⊠ pluggable equipment type A -
ANC LINC LINC LINC	(4)	<ul><li>non-detachable supply cord</li><li>appliance coupler</li><li>direct plug-in</li></ul>
MC LING LING LING	(4)	<ul><li>☐ mating connector</li><li>☐ pluggable equipment type B -</li><li>☐ non-detachable supply cord</li></ul>
WC LINC LINC LINC	(4)	<ul> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector □ other:Not connected to mains</li> </ul>
Considered current rating of protective device as p of building or equipment installation		
Equipment mobility	129	Installation location: ☐ building; ☒ equipment ☐ movable ☐ hand-held ☐ transportable
Equipment mobility		☐ stationary ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☐ wall-mounted
Over voltage category (OVC)	31,	<ul><li>☐ OVC I</li><li>☐ OVC II</li><li>☐ OVC IV</li><li>☐ other:Not connected mains</li></ul>
Class of equipment	-10	☐ Class I ☐ Class III
Access location	(14	☐ restricted access location ☐ N/A
Pollution degree (PD)	:	□ PD 1     □ PD 3
Manufacturer's specified maxium operating ambier	nt:	40 °C
IP protection class	1.	□ IPX0 ⊠ IP_20
Power Systems	:	□ TN □ TT □ IT V <sub>L-L</sub>
Altitude during operation (m)	(17)	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	:	⊠ 2000 m or less □ m
Mass of equipment (kg)	lb::	⊠ <7kg
POSSIBLE TEST CASE VERDICTS:		CCCCC.
- test case does not apply to the test object	Viz.o	N/A
- test object does meet the requirement	:	P (Pass)
- test object does not meet the requirement		F (Fail)



TMC Testing Services (Shenzhen) Co., Ltd.	No.	Wille	- WILL	Report No.: TMC	210713105-S
TESTING:			1	1.	1,
Date of receipt of test item:	July 13, 20	021	. (.		. (
Date (s) of performance of tests:	July 13, 20	)21 - July 2	28, 2021	Till	1 km
GENERAL REMARKS:	VC.	an C	o'nC	a'nC	7/20
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to "Throughout this report a  comma / point is una According to the EU directives which have been aligned manufacturer and importer's name and address shall be its packaging or in a document accompanying the product of the EU directives.	sed as the d with EU No e affixed on	t. decimal se LF (new lead the produce	eparator. gislative frar ct or, where	that is not pos	sible, on
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:	Lili	14/1	14/1	144
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ⊠ Not ap	plicable	THIC	THIC	THI
When differences exist; they shall be identified in t	he General	product ir	formation	section.	16,
Name and address of factory (ies)::	Same as n	nanufactur	er		
GENERAL PRODUCT INFORMATION:					
<ol> <li>Product Description</li> <li>The maximum ambient temperature is 30°C.</li> <li>This equipment is intended to operate in an area</li> <li>All models have the same construction, circuit dia all tests are conducted on model X8.</li> </ol>					nce, and
Model Differences - N/A	- 11	VC .	THIC	THIC	THIC
Additional application considerations – (Consider	ations used	d to test a	componen	t or sub-asse	embly) –

**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)
All internal circuits	ES3
USB port	ES1

#### **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)						
Internal circuits	PS3						
USB port	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		.00		.«С	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)
Mass of the unit	MS1
Edges and corners	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)				
Enclosure (metal)	TS1				

#### 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 RS

Type of radiation	Corresponding classification (RS)			
N/A	N/A			

	ENERGY SOURCE DIAGRAM							
Indicate	which energy	y sources are inclu	ded in the	energy sour	ce diagram	. Insert diagram	below	
.a.C	-nC	⊠ ES	⊠ PS	⊠ MS	⊠ TS	□ RS	.,,C	

OVERVIEW OF EMPLOYED SAFE							
Clause	Possible Hazard						
5.1	Electrically-caused injury						
Body Part	Energy Source		Safeguards				
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure			
Ordinary	ES3: All internal circuits	N/A	N/A	N/A			
Ordinary	ES1: USB port	N/A	N/A	N/A			
6.1	Electrically-caused fire						
Material part	Energy Source		Safeguards				
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced			
All combustible materials within equipment fire enclosure  Connections of secondary	PS3: All primary circuits and secondary circuits inside the equipment enclosure	Equipmen t safeguard (e.g., no ignition occurs; no parts exceeding 90% of its spontaneo us ignition temperatu re)	Equipment safeguard (e.g., control of fire spread; PCB is complied with V-0 material; All other components at least V-2 except for mounted on min. V-1 material or small parts of combustible material)	N/A			
equipment	N/A	IN/A	II IVA	IN/A			
7.1	Injury caused by hazardous	substances					
Body Part	Energy Source	Safeguards					
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced			
N/A	N/A	N/A	N/A	N/A			
8.1	Mechanically-caused injury						
Body Part	Energy Source	Safeguards					
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure			
Ordinary	MS1: Mass of the unit	N/A	N/A	N/A			
Ordinary	MS1: Edges and corners	N/A	N/A	N/A			



9.1	Thermal Burn				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS1: Metal enclosure	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	

# Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault

I IVI	c resuling Services (S	onenzhen) Co., Ltd.		Rep	OR NO.: TWICZTO?	13105-3
		.( .(	IEC 62368-1	 		

-in C	IEC 62368-1	one one	
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		S L
4.1.1	Acceptance of materials, components and subassemblies	aC aC aC	Р
4.1.2	Use of components	Lan Lan Len	R P
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions	(See Annex F)	Pail
4.4.4	Safeguard robustness	1, 1, 1,	Р
4.4.4.2	Steady force tests:	(See Annex T.4, T.5)	N/A
4.4.4.3	Drop tests:	LEN LEN LEN	N/A
4.4.4.4	Impact tests:		Р
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	THIC THIC THIC	N/A
4.4.4.6	Glass Impact tests:		N/A
4.4.4.7	Thermoplastic material tests:	one one one	P
4.4.4.8	Air comprising a safeguard:	44, 44, 44,	Р
4.4.4.9	Accessibility and safeguard effectiveness		Р
4.5	Explosion	- Will Will Will	P (II)
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard	Da Da Da	Р "(
4.6.2	10 N force test applied to:	Internal wire or components	K K
4.7	Equipment for direct insertion into mains socket – outlets	nc nc nc	N/A
4.7.2	Mains plug part complies with the relevant standard:	a. Lu. Lu.	N/A
4.7.3	Torque (Nm):	on on on	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries	N/A
4.8.2	Instructional safeguard	, , ,	N/A
4.8.3	Battery Compartment Construction	- we we we	N/A
	Means to reduce the possibility of children removing the battery		_
4.8.4	Battery Compartment Mechanical Tests	THE THE THE	N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	No openings. Can't be entry.	N/A



JAC .	one one	IEC 6	2368-1	nc anc	in One
Clause	Requ	uirement + Test	1	Result - Remark	Verdict

5	ELECTRICALLY-CAUSED INJURY	Nia 1120 1120	P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P
5.2.1		(See appended table 5.2)	
7	ES1, ES2 and ES3 limits	One are and add table 5.0)	P
5.2.2.2	Steady-state voltage and current	See appended table 5.2)	P
5.2.2.3	Capacitance limits:	WIC WIC W	N/A
5.2.2.4	Single pulse limits:	Lu. Lu. Lu.	N/A
5.2.2.5	Limits for repetitive pulses	(	N/A
5.2.2.6	Ringing signals:	THE THE WAY	N/A
5.2.2.7	Audio signals:		Р
5.3	Protection against electrical energy sources	, C , C	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	LEN LEN LEN	P. P.
5.3.2.1	Accessibility to electrical energy sources and safeguards	-MC -MC -M	C PN
5.3.2.2	Contact requirements	1, 1, 1,	Р
	a) Test with test probe from Annex V		N/A
Elle 1	b) Electric strength test potential (V):	LEN LEN LEN	N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire	and and an	Pail
5.4	Insulation materials and requirements	Lip. Lip. Lip	P
5.4.1.2	Properties of insulating material	1 1 1	Р
5.4.1.3	Humidity conditioning:	My My My	P
5.4.1.4	Maximum operating temperature for insulating materials:		Р
5.4.1.5	Pollution degree:	Pollution degree II	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling	LANCE LANCE LAN	N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses	10 10 n	N/A
5.4.1.8	Determination of working voltage	14, 14, 14,	P
5.4.1.9	Insulating surfaces		Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	LANC LANC LAN	PIN
5.4.1.10.2	Vicat softening temperature:	, ,	N/A
5.4.1.10.3	Ball pressure:	We will in	P.VI
V A	F	AL AL AL	1/2

Report No.:	TMC210713105-S

Clause	Requirement + Test	× 4/1	Result - Rema	cle of Miles	Verdict
Clause	Requirement + rest		Result - Remai	K	veruici
5.4.2.2	Determining clearance using peak working voltage	-inC	o'nC	-inC	P
5.4.2.3	Determining clearance using required withstand voltage:	1/2,	1/h	14,	P
SIN C	a) a.c. mains transient voltage:	MC	arn C	MC	_
19. A	b) d.c. mains transient voltage:	110.	10.	1/0.	_
/	c) external circuit transient voltage:		-	-	_
W.	d) transient voltage determined by measurement	LINE	THING	LANG	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	MC	· whC	· MC	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	1			Р
5.4.3	Creepage distances:	MC	NIC	·MC	Pall
5.4.3.1	General		1,1	1	Р
5.4.3.3	Material Group:	Group IIIa	ab (	. (.	_
5.4.4	Solid insulation	10/10	11/1	164	P (III
5.4.4.2	Minimum distance through insulation:				Р
5.4.4.3	Insulation compound forming solid insulation	MC	o'AC	anc.	N/A
5.4.4.4	Solid insulation in semiconductor devices	11/2	110	110	N/A
5.4.4.5	Cemented joints		- (	- (	N/A
5.4.4.6	Thin sheet material	N PINE	T BING	1 19 C	PW
5.4.4.6.1	General requirements				Р
5.4.4.6.2	Separable thin sheet material	INC.	-InC	Jac.	P.C
14. 1	Number of layers (pcs):	la.	14.	1.61.	Р
5.4.4.6.3	Non-separable thin sheet material				Р
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	LAVE	THIC	1 killy	N/A
5.4.4.6.5	Mandrel test	-			N/A
5.4.4.7	Solid insulation in wound components	- W	NIC	MIL	N/A
5.4.4.8	Compliance criteria				Р
5.4.4.9	Solid insulation at frequencies >30 kHz				N/A
5.4.5	Antenna terminal insulation	1 60	1 611	1/21	N/A
5.4.5.1	General	040	2042	2000	N/A
5.4.5.2	Voltage surge test	MC	- NIAC	- MC	N/A
	Insulation resistance (MΩ):	11.		11.	_
5.4.6	Insulation of internal wire as part of supplementary safeguard:	o'NC	a'nC	an C	N/A

·nC	IEC 62368-1	.nC	·nC	in C	
Clause	Requirement + Test	110.	Result - Remark	In.	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	(MC	THIC	THIC	N/A
5.4.8	Humidity conditioning				Р
MC	Relative humidity (%):	93	anc.	a'nC	_
4	Temperature (°C)	40	11	1/2	_
(	Duration (h):	120	(		_
5.4.9	Electric strength test:	L Lille	- WA	4 kills	P
5.4.9.1	Test procedure for a solid insulation type test			7	Р
5.4.9.2	Test procedure for routine tests	JIN C	Jan C	JAC.	P
5.4.10	Protection against transient voltages between external circuit	In.	Lb.	110.	N/A
5.4.10.1	Parts and circuits separated from external circuits	MC	an C	a'nC	N/A
5.4.10.2	Test methods	10	14	1/4	N/A
5.4.10.2.1	General	-			N/A
5.4.10.2.2	Impulse test:	1 Miles	T NA	L WILL	N/A
5.4.10.2.3	Steady-state test				N/A
5.4.11	Insulation between external circuits and earthed circuitry:	CHIC	TINC	THIC	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		`		N/A
5.4.11.2	Requirements	1 KING	T NIN -	1 km	N/A
	Rated operating voltage U <sub>op</sub> (V):		2	*	
ain C	Nominal voltage U <sub>peak</sub> (V):	MC	NI C	an C	
14. 1	Max increase due to variation U <sub>sp</sub> :	12.	110	( In.	_
-	Max increase due to ageing $\Delta U_{sa}$ :	-		-	<u>—</u>
No.	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	11/10	T PINE	1 kn	_
5.5	Components as safeguards				Р
5.5.1	General	JAC.	an C	JIC.	Р
5.5.2	Capacitors and RC units	1/10.	LID.	10.	P. P.
5.5.2.1	General requirement		<i>)</i>	-	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	LANC	THIC	1 My	PW
5.5.3	Transformers	(See Anı	nex G.5.3)	-	Р
5.5.4	Optocouplers	- March	- MA	- MC	N/A
5.5.5	Relays				N/A
	†			19.7	N/A

SPD's

5.5.7

- (	IEC 62368-1	- (	(	- (-	.29
Clause	Requirement + Test	1400	Result - Rema	ark	Verdict
5.5.7.1	Use of an SPD connected to reliable earthing	,nC	-nC	-nC	N/A
5.5.7.2	Use of an SPD between mains and protective earth	L. Lin	10,	10,	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	( MC	THIC	THIC	N/A
5.6	Protective conductor				N/A
5.6.2	Requirement for protective conductors	-in-C	a'nC	arn C	N/A
5.6.2.1	General requirements	110.	10.	10.	N/A
5.6.2.2	Colour of insulation		-	-	N/A
5.6.3	Requirement for protective earthing conductors	- Will	- W	- W	N/A
-	Protective earthing conductor size (mm²):				_
5.6.4	Requirement for protective bonding conductors	.,(	٥,,		N/A
5.6.4.1	Protective bonding conductors	1 12/1	11/11	1411	N/A
	Protective bonding conductor size (mm²):				
W.C.	Protective current rating (A):	NIC	· MC	· MC	
5.6.4.3	Current limiting and overcurrent protective devices	1			N/A
5.6.5	Terminals for protective conductors	- NO	NING	NA	N/A
5.6.5.1	Requirement		7	7.	N/A
W.C.	Conductor size (mm²), nominal thread diameter (mm):	MIC	THIC	CAUC	N/A
5.6.5.2	Corrosion				N/A
5.6.6	Resistance of the protective system		,,(		N/A
5.6.6.1	Requirements	la.	14,	141	N/A
5.6.6.2	Test Method Resistance (Ω)				N/A
5.6.7	Reliable earthing	NIC	MC	·NC	N/A
5.7	Prospective touch voltage, touch current and prote	ctive con	ductor current	7,	N/A
5.7.2	Measuring devices and networks	. ( .			Р
5.7.2.1	Measurement of touch current	164	1 W	1/1/1	P
5.7.2.2	Measurement of prospective touch voltage				N/A
5.7.3	Equipment set-up, supply connections and earth connections	THIC	THIC	THIC	N/A
,nC	System of interconnected equipment (separate connections/single connection):		ے م		_
Un.	Multiple connections to mains (one connection at	1/2/	1/4	100	

Protective conductor current

5.7.4

5.7.5

a time/simultaneous connections).....:

Earthed conductive accessible parts....:

Ρ

P

TMC Testi	TMC Testing Services (Shenzhen) Co., Ltd.		R	eport No.: TMC	210713105-S
·nC	IEC 62368-1	-inC	·nC	-inC	-10
Clause	Requirement + Test	1/10.	Result - Rema	rk	Verdict
a'NC	Supply Voltage (V):	oun C	on C	a'nC	_
7	Measured current (Ma)	1/2	110	110	_
(	Instructional Safeguard	- (	- (		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	LANC	TEN	1 kill	N/A
5.7.6.1	Touch current from coaxial cables	. (	(		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	Line	THINE	LANG	N/A
5.7.7	Summation of touch currents from external circuits	WC	-WIC	-WC	N/A
	a) Equipment with earthed external circuits Measured current (Ma):	1,	71	1	N/A

b) Equipment whose external circuits are not

referenced to earth. Measured current (Ma).....:

6	ELECTRICALLY- CAUSED FIRE		Pall
6.2	Classification of power sources (PS) and potential i	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General	Lay Lay Lay	R Ell
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	PM
6.2.2.4	PS1	(See appended table 6.2.2)	Р
6.2.2.5	PS2	ALC WIC WIC	N/A
6.2.2.6	PS3:	1, 1,	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:	LEN LEN LEN	P (ill)
6.2.3.2	Resistive PIS		Р
6.3	Safeguards against fire under normal operating and	d abnormal operating conditions	Pan
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	40 40 40	P
6.3.1 (b)	Combustible materials outside fire enclosure	Les Les Les	RIM
6.4	Safeguards against fire under single fault conditions	S	Р
6.4.1	Safeguard Method	and and and	Pall
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	1, 1, 1,	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS1 circuit	PAN

·nC	IEC 62368-1	and and and	
Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.1	General	anc anc anc	P
6.4.3.2	Supplementary Safeguards	Ly, Ly, Ly,	Р
·nC	Special conditions if conductors on printed boards are opened or peeled	anc anc anc	P
6.4.3.3	Single Fault Conditions:	Lu. Lu. Lu.	Р
/	Special conditions for temperature limited by F1		Р
6.4.4	Control of fire spread in PS1 circuits	- WILL - WILL	N/A
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards:	.aC .aC .aC	N/A
6.4.6	Control of fire spread in PS3 circuit	Line Line Line	N/A
6.4.7	Separation of combustible materials from a PIS	PCB rated Min. V-0 class material except for other small components made of V-0 class material.	P
6.4.7.1	General ::	(See tables 6.2.3.1 and 6.2.3.2)	Р
6.4.7.2	Separation by distance	V-0 PCB used	Р
6.4.7.3	Separation by a fire barrier	Lp. Lp. Lp.	N/A
6.4.8	Fire enclosures and fire barriers		Р
6.4.8.1	Fire enclosure and fire barrier material properties	- MC - MC - MC	PN
6.4.8.2.1	Requirements for a fire barrier	No fire barrier	N/A
6.4.8.2.2	Requirements for a fire enclosure	. C . C . C	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Len Len Len	P
6.4.8.3.1	Fire enclosure and fire barrier openings	No fire enclosure opening	P. C
6.4.8.3.2	Fire barrier dimensions	No fire barrier	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	nC nC nC	Р
10.	Needle Flame test	14, 14, 14,	P, II
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	ac ac ac	N/A
<i>b</i> . ×	Flammability tests for the bottom of a fire enclosure	Lu, Lu, Lu,	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	No door and cover	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	Fire enclosure is made of HB material	N/A
3.5	Internal and external wiring	I My I My I MUS	P
6.5.1	Requirements		Р
6.5.2	Cross-sectional area (mm²):	20 20 20	_

TMC Testing Services (Shenzhen) Co., Ltd. Report No.: TMC210			10713105-S
-inC	IEC 62368-1	one one one	-10
Clause	Requirement + Test	Result - Remark	Verdict
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment	.0 .0 .0	N/A
Value of	External port limited to PS2 or complies with Clause Q.1	Lay Lay Lay	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES				N/A
7.2	Reduction of exposure to hazardous substances	No such	hazardous sub	ostances	N/A
7.3	Ozone exposure	MILL	7 1970	M	N/A
7.4	Use of personal safeguards (PPE)	-			N/A
an C	Personal safeguards and instructions	JaC .	an C	on C	_
7.5	Use of instructional safeguards and instructions	10.	10,	10.	N/A
	Instructional safeguard (ISO 7010)		- /	,	_
7.6	Batteries:	MIC	- W	- WIC	N/A

8	MECHANICALLY-CAUSED INJURY				Р (
8.1	General	10,	160	160	R III
8.2	Mechanical energy source classifications				Р
8.3	Safeguards against mechanical energy sources	·MC	· WC	·WC	Pall
8.4	Safeguards against parts with sharp edges and corners	Edges ar MS1	d corners are	classed as	Р
8.4.1	Safeguards	NIC	·WC	- WIC	N/A
8.5	Safeguards against moving parts		1,	7	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	- WC	- MC	- WC	N/A
8.5.2	Instructional Safeguard:		7	7.	_
8.5.4	Special categories of equipment comprising moving parts	MC	MC	MC	N/A
8.5.4.1	Large data storage equipment				N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	- MIC	THIC	THIC	N/A
8.5.4.2.1	Safeguards and Safety Interlocks				N/A
8.5.4.2.2	Instructional safeguards against moving parts	JAC .	JAC .	JAC.	N/A
L.	Instructional Safeguard:	14.	10.	14.	_
8.5.4.2.3	Disconnection from the supply	,	,		N/A
8.5.4.2.4	Probe type and force (N)	NIC	NIC	NIC	N/A
8.5.5	High Pressure Lamps				N/A

·nC	IEC 62368-1	one one one	
Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.1	Energy Source Classification	One One One	N/A
8.5.5.2	High Pressure Lamp Explosion Test	10 10 10	N/A
3.6	Stability		N/A
3.6.1	Product classification	THIS THIS THIS	N/A
	Instructional Safeguard:		_
8.6.2	Static stability	anc anc anc	N/A
8.6.2.2	Static stability test	14, 14, 14,	N/A
	Applied Force		_
8.6.2.3	Downward Force Test	- MC - MC - MC	N/A
3.6.3	Relocation stability test		N/A
aC.	Unit configuration during 10° tilt	20, 20, 20,	_
3.6.4	Glass slide test	Lan Lan Lan	N/A
8.6.5	Horizontal force test (Applied Force):		N/A
W.C.	Position of feet or movable parts:	We We We	_
8.7	Equipment mounted to wall or ceiling	7, 7,	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	THIC THIC THIC	N/A
3.7.2	Direction and applied force		N/A
3.8	Handles strength	No handles	N/A
3.8.1	Classification	Lu, Lu, Lu,	N/A
3.8.2	Applied Force		N/A
3.9	Wheels or casters attachment requirements	No wheels or casters	N/A
3.9.1	Classification		N/A
3.9.2	Applied force	2, 0, 0,	_
3.10	Carts, stands and similar carriers	No carts or stands or other carriers	N/A
3.10.1	General		N/A
8.10.2	Marking and instructions	inc inc inc	N/A

Mechanical stability

Cart, stand or carrier loading test and compliance

Applied force....:

Applied horizontal force (N).....

Thermoplastic temperature stability (°C).....:

Mounting means for rack mounted equipment

Cart, stand or carrier impact test

8.10.3

8.10.4

8.10.5

8.10.6

8.11

N/A

N/A

N/A

N/A

TMC Testing Services (Shenzhen) Co., Ltd.  Report No.: TMC2		:10713105-S		
IEC 62368-1	JAC.	·nC	JAC.	-10
Requirement + Test	16.	Result - Remar	k	Verdict
General	an C	-inC	out C	N/A
Product Classification	14.	110	1/2	N/A
Mechanical strength test, variable N:		-		N/A
Mechanical strength test 250N, including end stops	- W	- Pile	- MC	N/A
Telescoping or rod antennas	7			N/A
Button/Ball diameter (mm):	an C		-nC	_
	Requirement + Test  General  Product Classification  Mechanical strength test, variable N:  Mechanical strength test 250N, including end stops  Telescoping or rod antennas	Requirement + Test  General  Product Classification  Mechanical strength test, variable N	Requirement + Test  Result - Remar  General  Product Classification  Mechanical strength test, variable N	Requirement + Test  Result - Remark  General  Product Classification  Mechanical strength test, variable N

*		
9	THERMAL BURN INJURY	Р
9.2	Thermal energy source classifications	Р
9.3	Safeguard against thermal energy sources	N/A
9.4	Requirements for safeguards	N/A
9.4.1	Equipment safeguard	N/A
9.4.2	Instructional safeguard:	N/A

10	RADIATION				Р
10.2	Radiation energy source classification		- (	-	Р
10.2.1	General classification	- Pill	T PINE	- M	P
10.3	Protection against laser radiation	No laser			N/A
on C	Laser radiation that exists equipment:	3AC	inC	3nC	_
La	Normal, abnormal, single-fault:	14,	14,	14,	_
- 2	Instructional safeguard:	-	- /	,	_
NIL	Tool:	W.C	NIC	NIC	_
10.4	Protection against visible, infrared, and UV radiation			~	N/A
10.4.1	General	- Will	- Wille	- Will	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons				N/A
10.4.1.b)	RS3 accessible to a skilled person:	JAC	in C	an C	N/A
La.	Personal safeguard (PPE) instructional safeguard:	(b)	160.	1/101	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	JAC.	In C	JAC .	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	14.	10.	10.	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	an C	JAC .	JAC .	N/A
10.4.1.f)	UV attenuation	14.	14.	14.	N/A
10.4.1.g)	Materials resistant to degradation UV:	-	,	-	N/A
10.4.1.h)	Enclosure containment of optical radiation:	- W	NI	- W	N/A



INC.	IEC 62368-1	JAC.	Jan C	in C	
Clause	Requirement + Test	14.	Result - Remark	1 las	Verdict
10.4.1.i)	Exempt Group under normal operating conditions:	( NI)C	THIC	THIC	N/A
10.4.2	Instructional safeguard:				N/A
10.5	Protection against x-radiation	MC	SAL	a'ILC	N/A
10.5.1	X- radiation energy source that exists equipment:	110	110	1/2	N/A
(	Normal, abnormal, single fault conditions		- (	- (	N/A
No.	Equipment safeguards:	" WILL	T WILL	1 Williams	N/A
	Instructional safeguard for skilled person:				N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	MC	TWC	~ MC	_
	Abnormal and single-fault condition				N/A
in C	Maximum radiation (Pa/kg)	INC.	an C	in C	N/A
10.6	Protection against acoustic energy sources	14.	14,	14.	N/A
10.6.1	General				N/A
10.6.2	Classification	MC	NAC	MC	N/A
	Acoustic output, Db(A):			7,	N/A
. C.	Output voltage, unweighted r.m.s:	. C.	. (.	. C.	N/A
10.6.4	Protection of persons	11/1	1 12/	11/1	N/A
	Instructional safeguards:		-		N/A
inc ~	Equipment safeguard prevent ordinary person to RS2	MIC	TWC	THIC	_
	Means to actively inform user of increase sound pressure:				_
( lay 1	Equipment safeguard prevent ordinary person to RS2	en.	1 kg	( 10)	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	CANC	CANC	- MC	N/A
10.6.5.1	Corded passive listening devices with analog input				N/A
No.	Input voltage with 94 Db(A) L <sub>Aeq</sub> acoustic pressure output	Line	Line	THIS	_
10.6.5.2	Corded listening devices with digital input	. (	:6.		N/A
SU -	Maximum Db(A)	1 1/1 C	THE	1 ky	_
10.6.5.3	Cordless listening device		7		N/A
.n.C	Maximum Db(A):	-aC		-40	_

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATIN CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	G	P
B.2	Normal Operating Conditions	11,	Р

-INC	IEC 62368-1	and and and	
Clause	Requirement + Test	Result - Remark	Verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
. C.	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	Lay Lay Lay	.P. II
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	sinc sinc sinc	P
B.3.1	General requirements	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	0 0 0	N/A
B.3.3	D.C. mains polarity test	LINE LINE LINE	N/A
B.3.4	Setting of voltage selector:	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	Rated load	Р
B.3.6	Reverse battery polarity	Lu. Lu. Lu.	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	one one one	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions	anc anc anc	Р
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	N/A
B.4.3	Motor tests	one one one	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	Lp. Lp. Lp.	N/A
B.4.4	Short circuit of functional insulation	One One One	P
B.4.4.1	Short circuit of clearances for functional insulation	n 4n 4n	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	anc anc anc	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	LANC LANC LANC	P
B.4.6	Short circuit or disconnect of passive components		Р
B.4.7	Continuous operation of components	anc anc	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		Р

Requirements

**UV RADIATION** 

radiation

Battery charging under single fault conditions.....:

Protection of materials in equipment from UV

B.4.9

С

C.1

C.1.2

N/A

N/A

N/A

MC	IEC 62368-1	the the the	127
Clause	Requirement + Test	Result - Remark	Verdict
C.1.3	Test method	anc anc anc	N/A
C.2	UV light conditioning test	14, 14, 14,	N/A
C.2.1	Test apparatus	, , ,	N/A
C.2.2	Mounting of test samples	THE THE THE	N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus	30 30 30	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	inc inc inc	N/A
D.3	Electronic pulse generator	1, 1, 1,	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	Р
E.1	Audio amplifier normal operating conditions	The The The	PIN
	Audio signal voltage (V)		_
-inC	Rated load impedance (Ω):	and and and	
E.2	Audio amplifier abnormal operating conditions	Ly, Ly, Ly,	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
E.1	General requirements	THE THE THE	P (II)
	Instructions – Language:	English instructions provided	_
F.2	Letter symbols and graphical symbols	20, 20, 20,	P
F.2.1	Letter symbols according to IEC60027-1	Les, Les, Les	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	See copy of marking plate	P
F.3	Equipment markings	p. 1p. 1p.	P
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings	See copy of marking plate	PM
F.3.2.1	Manufacturer identification:	See copy of marking plate	_
F.3.2.2	Model identification	See copy of marking plate	_
F.3.3	Equipment rating markings	Len Len Len	K LA
F.3.3.1	Equipment with direct connection to mains		Р
F.3.3.2	Equipment without direct connection to mains	WIC WIC WIC	N/A
F.3.3.3	Nature of supply voltage:	4, 4, 4,	_
F.3.3.4	Rated voltage:	See page 2	_
F.3.3.5	Rated frequency:	See page 2	_
F.3.3.6	Rated current or rated power	See page 2	_
F.3.3.7	Equipment with multiple supply connections	and and	N/A
F.3.4	Voltage setting device	14. 14. 14.	N/A



.n.C	IEC 62368-1	JAC.	an C	an C	
Clause	Requirement + Test	110	Result - Remark	14,	Verdict
F.3.5	Terminals and operating devices	-inC	am <sup>C</sup>	o'n C	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	110	14	14.	N/A
F.3.5.2	Switch position identification marking:	-in-C	S. C.	-INC	P
F.3.5.3	Replacement F1 identification and rating markings	14.	Alm.	110	Р
F.3.5.4	Replacement battery identification marking:	anc.	NA.	o'll C	N/A
F.3.5.5	Terminal marking location	11.	110	14	N/A
F.3.6	Equipment markings related to equipment classification	N/C	"I'C	- NC	P
F.3.6.1	Class I Equipment	11,	110	10	Р
F.3.6.1.1	Protective earthing conductor terminal	- (	- (	- (	Р
F.3.6.1.2	Neutral conductor terminal	Lillo	~ W	1 1/1 C	PW
F.3.6.1.3	Protective bonding conductor terminals				Р
F.3.6.2	Class II equipment (IEC60417-5172)	-inC	-inC	-INC	N/A
F.3.6.2.1	Class II equipment with or without functional earth	1/2.	110.	1/4.	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	a'nC	a'nC	an C	N/A
F.3.7	Equipment IP rating marking:	IP 20	1/2.	110.	_
F.3.8	External power supply output marking			-	Р
F.3.9	Durability, legibility and permanence of marking	1 Miles	THE	- BINC	PW
F.3.10	Test for permanence of markings				Р
F.4	Instructions	-mC	an C	an C	P
110, 1	a) Equipment for use in locations where children not likely to be present – marking	la.	10.	Lis.	N/A
Jac .	b) Instructions given for installation or initial use	-10C	an C	-11/	P
b.	c) Equipment intended to be fastened in place	112.	I.D.	10.	N/A
an C	d) Equipment intended for use only in restricted access area	-inC	-INC	-inC	N/A
W. X	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	In.	IN.	In.	P
IN .	f) Protective earthing employed as safeguard	11/10	1/1/10	11/1	PN
. C.	g) Protective earthing conductor current exceeding ES 2 limits	. (.			Р
W.	h) Symbols used on equipment	11/1	I KN	1 1900	P N
	i) Permanently connected equipment not provided with all-pole mains switch	. (.			N/A
410	1110 1110 1110			200	

safeguard function

j) Replaceable components or modules providing

	19 19 19 19 19 19 19 19 19 19 19 19 19 1	- M - M - M	W. S. C.
Clause	Requirement + Test	Result - Remark	Verdict
F.5	Instructional safeguards	anc anc anc	N/A
.C.	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	40. 40. 40.	N/A
G	COMPONENTS		R F
G.1	Switches		Р
G.1.1	General requirements	ain ainc	Pag
G.1.2	Ratings, endurance, spacing, maximum load	40 40	N/A
G.2	Relays		N/A
G.2.1	General requirements	No relays	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	inc inc inc	N/A
G.2.4	Mains relay, modified as stated in G.2	14, 14, 14,	N/A
G.3	Protection Devices		Р
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	IMC LING LING	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	anc anc anc	N/A
G.3.2	Thermal links	10 10 10	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	KIND THIS THIS	N/A
	Aging hours (H):		_
an C	Single Fault Condition:	nc nc nc	_
la. \	Test Voltage (V) and Insulation Resistance ( $\Omega$ ):	14, 14, 14,	_
G.3.3	PTC Thermistors	No PTC	N/A
G.3.4	Overcurrent protection devices	- MC - MC - MC	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	WC WC WC	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	D. D. D.	Р
G.4.1	Spacings	144 144 144	N/A
G.4.2	Mains connector configuration		Р
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	TAIC THIC THIC	N/A

arn C	IEC 62368-1	- MC	-10 C	-dVC	1/2
Clause	Requirement + Test	110.	Result - Rema	ark	Verdict
G.5	Wound Components	-inC	One.	oin C	P
G.5.1	Wire insulation in wound components	110	1/1/2	1/2.	P
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	on C	o'nC	a'nC	N/A
G.5.1.2 b)	Construction subject to routine testing	110	1/1/2	1/2	N/A
G.5.2	Endurance test on wound components		-	- /	N/A
G.5.2.1	General test requirements	" Willow	T WILL	T WILL	N/A
G.5.2.2	Heat run test				N/A
JAC.	Time (s):	INC.	.nC	3AC	_
La. ~	Temperature (°C):	10,	10,	14.	_
G.5.2.3	Wound Components supplied by mains				N/A
G.5.3	Transformers(Evaluated in the end system)	WIC	WIC	· WC	P.M
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):		7.		Р
MC	Position:	MC	- W	- W	
	Method of protection:		7,	7	_
G.5.3.2	Insulation	٠.	٠.(		P
La .	Protection from displacement of windings:	119,	11/1	11/1	_
G.5.3.3	Overload test:				Р
G.5.3.3.1	Test conditions	·MC	MC	· WC	Pall
G.5.3.3.2	Winding Temperatures testing in the unit	1	41,	4,	Р
G.5.3.3.3	Winding Temperatures – Alternative test method				N/A
G.5.4	Motors	12/	100	1 ky	N/A
G.5.4.1	General requirements				N/A
an C	Position	a'NC	MC	a'll C	_
G.5.4.2	Test conditions	11/11	11/11/11	110	N/A
G.5.4.3	Running overload test			-	N/A
G.5.4.4	Locked-rotor overload test	- W	1 MC	" ALC	N/A
	Test duration (days):				_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	TANC	THIC	THIC	N/A
G.5.4.5.2	Tested in the unit				N/A
a'nC	Electric strength test (V):	-inC	-INC	-INC	
G.5.4.5.3	Tested on the Bench – Alternative test method; test time (h):	Lu.	1m	100	N/A
		-		-	

TMC Testing Services (Shenzhen) Co., Ltd. Report No.: TMC210713105-S IEC 62368-1 Result - Remark Clause Requirement + Test Verdict G.5.4.6 Locked-rotor overload test for d.c. motors in N/A secondary circuits

G.5.4.6.2	Tested in the unit				N/A
NIC .	Maximum Temperature	NAC.	o'AC	a'nC	N/A
La. X	Electric strength test (V)	110	14	1/10	N/A
G.5.4.6.3	Tested on the bench – Alternative test method; test time (h):	3'NC	a'nC	O/No	N/A
7	test time (h):  Electric strength test (V):	11,	110	110	N/A
G.5.4.7	Motors with capacitors	- (	- (		N/A
G.5.4.8	Three-phase motors	( PINO	7 19/10	1 M	N/A
G.5.4.9	Series motors			7	N/A
an C	Operating voltage:	JAC .	JAC.	3nC	_
G.6	Wire Insulation	14.	10,	10,	N/A
G.6.1	General				N/A
G.6.2	Solvent-based enamel wiring insulation	NIC	W	WIC	N/A
G.7	Mains supply cords	1	7	7,	N/A
G.7.1	General requirements		. (		N/A
UN.	Туре:	LEN	1 191	160	_
	Rated current (A):				
wh.C.	Cross-sectional area (mm²), (AWG):	MIC	NA	- on C	
G.7.2	Compliance and test method	110	1111	110	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	WC	WIC	WIC	N/A
G.7.3.2	Cord strain relief		7	7.	N/A
G.7.3.2.1	Requirements				N/A
by.	Strain relief test force (N)	100	1 1/11	100	_
G.7.3.2.2	Strain relief mechanism failure		3		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	MC	SINC	a'NC	_
G.7.3.2.4	Strain relief comprised of polymeric material	110	1/2	1/1/	N/A
G.7.4	Cord Entry:	-	- (	- (	N/A
G.7.5	Non-detachable cord bend protection	" HILL	" W	18/1°	N/A
G.7.5.1	Requirements				N/A
G.7.5.2	Mass (g)	JAC.	JAC .	JAC .	_
Li,	Diameter (m)	14,	1 bi	14,	_
,	Temperature (°C)		,		
G.7.6	Supply wiring space	- W	NIC	- 1/1/C	N/A

	IEC 62368-1				
Clause	Requirement + Test	14	Result - Remark	( 1 1/1/1-	Verdict
G.7.6.2	Stranded wire	-inC	-inC	-inC	N/A
G.7.6.2.1	Test with 8 mm strand	1/2,	11/1/2	1/4.	N/A
G.8	Varistors				N/A
G.8.1	General requirements	- W	- BINC	NIC	N/A
G.8.2	Safeguard against shock				N/A
G.8.3	Safeguard against fire				N/A
G.8.3.2	Varistor overload test:	160	100	10,	N/A
G.8.3.3	Temporary overvoltage:				N/A
G.9	Integrated Circuit (IC) Current Limiters	NIC	- WC	· «In C	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	11	1	1	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	11/10	11/1	1/1/10	_ ^
G.9.1 d)	IC limiter output current (max. 5A):				_
G.9.1 e)	Manufacturers' defined drift:	-INC	anC.	-INC	_
G.9.2	Test Program 1	In.	10.	Lo.	N/A
G.9.3	Test Program 2		-		N/A
G.9.4	Test Program 3	- 1975	- Will	, NA	N/A
G.10	Resistors				N/A
G.10.1	General requirements	-110	inC	.nC	N/A
G.10.2	Resistor test	14,	1 121	14,	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	MIC	TMC	THIC	N/A
G.10.3.1	General requirements		. *		N/A
G.10.3.2	Voltage surge test	anc.	a'nC	-in-C	N/A
G.10.3.3	Impulse test	100	110	14	N/A
G.11	Capacitor and RC units	-		-	N/A
G.11.1	General requirements	- W	- M	M	N/A
G.11.2	Conditioning of capacitors and RC units				N/A
G.11.3	Rules for selecting capacitors				N/A
G.12	Optocouplers(evaluated in the end system)	10,	10,	10,	N/A
AUC .	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	CHIC	THIC	THIC	N/A
	Type test voltage Vini				_
SINC.	Routine test voltage, Vini,b:	MC	Jul C	an C	_
G.13	Printed boards	14,	14,	14,	P

. (	IEC 62368-1	. (			
Clause	Requirement + Test	14/1	Result - Remark	1400	Verdict
G.13.1	General requirements	-inC	-inC	-inC	P
G.13.2	Uncoated printed boards	11.	LIA.	1/4	P
G.13.3	Coated printed boards		/		N/A
G.13.4	Insulation between conductors on the same inner surface	LING	THIC	TANC	N/A
an C	Compliance with cemented joint requirements (Specify construction):	NAC.	n'nC	N'AC	_
G.13.5	Insulation between conductors on different surfaces	11	71	111	N/A
in C	Distance through insulation	- N'C	· vinC	- NIC	N/A
	Number of insulation layers (pcs):	11.	11.	1.	
G.13.6	Tests on coated printed boards				N/A
G.13.6.1	Sample preparation and preliminary inspection	11/10	1 kills	1 1/1 C	N/A
G.13.6.2a)	Thermal conditioning		3		N/A
G.13.6.2b)	Electric strength test	MC	-mC	-in C	N/A
G.13.6.2c)	Abrasion resistance test	110.	14	14.	N/A
G.14	Coating on components terminals	-		-	N/A
G.14.1	Requirements	(See G.	13)	M	N/A
G.15	Liquid filled components				N/A
G.15.1	General requirements	-00	in C	.,, C	N/A
G.15.2	Requirements	100	160	164	N/A
G.15.3	Compliance and test methods				N/A
9.15.3.1	Hydrostatic pressure test	W/C	- MC	NIC	N/A
9.15.3.2	Creep resistance test		1,	1,	N/A
9.15.3.3	Tubing and fittings compatibility test				N/A
G.15.3.4	Vibration test	1/1/1	1/1/1	1 1/1 m	N/A
G.15.3.5	Thermal cycling test		3		N/A
G.15.3.6	Force test	MC	-inc	- INC	N/A
G.15.4	Compliance	11.	10.	1/4.	N/A
G.16	IC including capacitor discharge function (ICX)	-/	,	- /	N/A
)	Humidity treatment in accordance with sc5.4.8 – 120 hours	Line	THIC	LING	N/A
)) ()	Impulse test using circuit 2 with Uc = to transient voltage	- NA	an <sup>C</sup>	MC	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	110	110	YI.	N/A

Test voltage .....:

C2)

	IEC 62368-1				
Clause	Requirement + Test	14/1	Result - Remark	14/10	Verdict
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	THIC	THIC	THIC	N/A
D2)	Capacitance:		.C	. (	_
D3)	Resistance:	1 100	1 100	1 1911	
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S			N/A
H.1	General	"ILC	"ILC	- NA	N/A
H.2	Method A	11/2	100	110	N/A
H.3	Method B		-	-	N/A
H.3.1	Ringing signal	- Mr	- 19/1°	1 My	N/A
H.3.1.1	Frequency (Hz)				_
1.3.1.2	Voltage (V)	-inC	-nC	-1nC	
H.3.1.3	Cadence; time (s) and voltage (V):	160	10,	1611	
H.3.1.4	Single fault current (Ma)::			- /	
H.3.2	Tripping device and monitoring voltage:	11/10	- WC	- W	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with			~	N/A
H.3.2.2	Tripping device	11/1/2	1 19Th	1 1/1 C	N/A
1.3.2.3	Monitoring voltage (V):				_
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTE	RLEAVED INSUL	.ATION	Pat
~ ×	General requirements	1/2	14	44	Р
K	SAFETY INTERLOCKS		- 2	,	N/A
K.1	General requirements	W.	W	NIC	N/A
K.2	Components of safety interlock safeguard mechanism				N/A
<b>K</b> .3	Inadvertent change of operating mode	19/10	- Will	- PINC	N/A
<b>&lt;.4</b>	Interlock safeguard override				N/A
<b>&lt;</b> .5	Fail-safe	,aC		300	N/A
la, \	Compliance:	164	14	14,	N/A
<.6	Mechanically operated safety interlocks				N/A
					N/A

**Endurance test** 

Interlock circuit isolation

Separation distance for contact gaps & interlock

circuit elements (type and circuit location) .....:

Overload test, Current (A).....:

K.7

K.7.1

K.7.2

K.7.3

N/A

N/A

N/A



on C	IEC 62368-1	ac ac ac	
Clause	Requirement + Test	Result - Remark	Verdict
K.7.4	Electric strength test:	(See appended table 5.4.11)	N/A
	DISCONNECT DEVICES	14 14 14	Р
L.1,	General requirements	, , ,	Р
L.2	Permanently connected equipment	Me Me Me	N/A
3	Parts that remain energized		N/A
4	Single phase equipment	20, 20, 20,	Р
5	Three-phase equipment	Lay Lay Lay	N/A
6	Switches as disconnect devices		Р
L.7	Plugs as disconnect devices	anc anc anc	Pat
L.8	Multiple power sources	1, 1, 1,	N/A
M	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	LANG LANG LANG	N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements	one one one	N/A
M.2.2	Compliance and test method (identify method):	Ly, Ly, Ly	N/A
M.3	Protection circuits		N/A
M.3.1	Requirements	- MIC WICE WICE	N/A
M.3.2	Tests		N/A
٠.(	- Overcharging of a rechargeable battery	.( .( .(	N/A
in 1	- Unintentional charging of a non-rechargeable battery	Lay Lay	N/A
an C	- Reverse charging of a rechargeable battery	ac ac ac	N/A
144 1	- Excessive discharging rate for any battery	by Lan Line	N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing secondary lithium battery	LANC LANC LANC	N/A
M.4.1	General		N/A
M.4.2	Charging safeguards	Mr Mc Mc	N/A
M.4.2.1	Charging operating limits	1, 1, 1,	N/A
M.4.2.2a)	Charging voltage, current and temperature:		
M.4.2.2 b)	Single faults in charging circuitry:	Lay Lay Lay	45
VI.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	LANC LANC LANC	N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests	one one one	N/A

Drop

Marine 4	My My My The My	11/10	David David	- M	N. KINA
Clause	Requirement + Test	1.	Result - Remark	1.	Verdict
SINC.	Charge	an C	a'nC	o'nC	N/A
L. 1	Discharge	112	14.	110	N/A
M.4.4.4	Charge-discharge cycle test		,		N/A
M.4.4.5	Result of charge-discharge cycle test	THE THE	NA	19/1°	N/A
M.5	Risk of burn due to short circuit during carrying				N/A
M.5.1	Requirement	an C	٥,,,	30 C	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	1/4	10,	10,	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	in C	.nC	an C	N/A
M.6.1	Short circuits	1/11	110,	10.	N/A
M.6.1.1	General requirements				N/A
M.6.1.2	Test method to simulate an internal fault	WIC	- WIC	·WC	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		7.	7.	N/A
M.6.2	Leakage current (Ma)	MC	NIC	MC	N/A
M.7	Risk of explosion from lead acid and NiCd batteries			7	N/A
M.7.1	Ventilation preventing explosive gas concentration	LING	THIC	1 Myc	N/A
M.7.2	Compliance and test method				N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	LANC	THIC	1 My	N/A
M.8.1	General requirements		- / -		N/A
M.8.2	Test method	W.	T WILL	W	N/A
M.8.2.1	General requirements				N/A
M.8.2.2	Estimation of hypothetical volume <i>Vz</i> (m³/s):	INC.	inC	3nC	- 40
M.8.2.3	Correction factors:	1/21.	Lu.	110.	4 Ln.
M.8.2.4	Calculation of distance d (mm)				_
M.9	Preventing electrolyte spillage	- WC	- W	- WC	N/A
M.9.1	Protection from electrolyte spillage				N/A
M.9.2	Tray for preventing electrolyte spillage			.a.C	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	Lun	1611	1 km	N/A
N	ELECTROCHEMICAL POTENTIALS	MIL	NIC	- M	N/A
	Metal(s) used:	Pollution	degree considere	ed	
0, (	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEA	ARANCES	-aC	Р
dr. ~	Figures O.1 to O.20 of this Annex applied:	144	1411	1 12/1	~ Ly

TMC Testing Services (Shenzhen) Co., Ltd. Report No.: TMC21			210713105-S			
an C	JAC .	inc inc	IEC 62368-1	.nc .nc	Jan C	-10
Clause	14.	Requirement + Test	14.	Result - Re	emark	Verdict

	1 ioquiion,on	The state of the s	
PUC.	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	P
P.1	General requirements		Р
P.2.2	Safeguards against entry of foreign object	ONE ONE ONE	P
6.	Location and Dimensions (mm):	40 40 40	1/2
P.2.3	Safeguard against the consequences of entry of foreign object	inc inc inc	N/A
P.2.3.1	Safeguards against the entry of a foreign object	1, 1, 1,	N/A
	Openings in transportable equipment		N/A
I'M	Transportable equipment with metalized plastic parts:	LINE LINE LINE	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	THIC THIC THIC	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements	THE THE THE	N/A
P.3.2	Determination of spillage consequences	7, 7,	N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness	LEN LEN LEN	N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing	anc anc anc	N/A
<i>L</i>	Tc (°C)	10 10 10	7
- /	Tr (°C):		
1 W/V /	Ta (°C)	KING THIS THIS	14h
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	2 2 2	Р
Q.1.1 a)	Inherently limited output	- MC - MC - MC	N/A
Q.1.1 b)	Impedance limited output		N/A
N/C	- Regulating network limited output under normal operating and simulated single fault condition	THIC THIC THIC	N/A
Q.1.1 c)	Overcurrent protective device limited output	7	N/A
Q.1.1 d)	IC current limiter complying with G.9	nc nc nc	N/A
Q.1.2	Compliance and test method	Las Las Las	N/A
Q.2	Test for external circuits – paired conductor cable	3 3	N/A
W.C	Maximum output current (A):	WIC WIC WIC	125-
7	Current limiting method:	L. L. L.	1

Report No.: TMC210713105-S IEC 62368-1

W.C.	IEC 62368-1	MI	- WILL	MI	Dr.
Clause	Requirement + Test	11.	Result - Remark	(	Verdict
R	LIMITED SHORT CIRCUIT TEST	o'AC	and C	OTH	N/A
R.1	General requirements	110	1/1/2	110	N/A
R.2	Determination of the overcurrent protective device and circuit	-inC	o'nC	an C	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)):	110	110	110	N/A
s	TESTS FOR RESISTANCE TO HEAT AND FIRE	-in-C	-inC	o'ILC	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	Lin.	Z.M.	ZW.	N/A
121 V	Samples, material:	1611	10,	1611	40
	Wall thickness (mm):		140		
SUC.	Conditioning (°C):	MC	· n'Il C	·MC	<u> </u>
,	Test flame according to IEC 60695-11-5 with conditions as set out		7		N/A
W.C.	- Material not consumed completely	- W	- W	MIC	N/A
	- Material extinguishes within 30s				N/A
. C	- No burning of layer or wrapping tissue				N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	100	Len	1 kg	N/A
an C	Samples, material:	JAC.	300	.nC	- 48
12. X	Wall thickness (mm):	1/21.	10,	10,	10
- 5	Conditioning (°C):		- ,		
LINCL	Test flame according to IEC 60695-11-5 with conditions as set out	INC.	THE	THIC	N/A
,	Test specimen does not show any additional hole		,	_	N/A
S.3	Flammability test for the bottom of a fire enclosure	LANC	LANC	THIC	N/A
	Samples, material:	1	- /	-	
No.	Wall thickness (mm):	LAN	TIME	T WILL	70
10.0	Cheesecloth did not ignite				N/A
5.4	Flammability classification of materials	JAC.	an C	30C	N/A
3.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	Zu.	YIN.	In.	N/A
W. Y	Samples, material:	11/10	THIN	1 km	T PI
	Wall thickness (mm)				_
.,	Conditioning (test condition), (°C):	in C	:00	-00	- A

on C	IEC 62368-1	nc 200 200	
Clause	Requirement + Test	Result - Remark	Verdict
W.C	Test flame according to IEC 60695-11-20 with conditions as set out	LANC LANC LANC	N/A
. C.	After every test specimen was not consumed completely		N/A
Su.	After fifth flame application, flame extinguished within 1 min	Line Line Line	N/A
T, C	MECHANICAL STRENGTH TESTS	). ). ).	Р
T.1	General requirements	164 164 164	R
T.2	Steady force test, 10 N	(See appended table T.2)	Р
T.3	Steady force test, 30 N	Not applicable	N/A
T.4	Steady force test, 100 N:	(See appended table T4)	N/A
T.5	Steady force test, 250 N:	(See appended table T5)	Р
T.6	Enclosure impact test	THE THE THE	P
	Fall test		Р
an C	Swing test	anc anc anc	P at
T.7	Drop test:	Les Les Les	N/A
T.8	Stress relief test:		Р
T.9	Impact Test (glass)	CALC LANG LANG	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance	and and and	N/A
<i>j</i> <sub>0</sub> .	Impact energy (J):	10. 10. 10.	10
	Height (m)		
Γ.10	Glass fragmentation test:	Chil Lhic Lhic	N/A
T.11	Test for telescoping or rod antennas		N/A
in C	Torque value (Nm)	and and and	n
J	MECHANICAL STRENGTH OF CATHODE RAY AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
J.1	General requirements	No CRTs	N/A
J.2	Compliance and test method for non-intrinsically protected CRTs		N/A
J.3	Protective Screen:	THE THE THE	N/A
/	DETERMINATION OF ACCESSIBLE PARTS (FII	NGERS, PROBES AND WEDGES)	Р
/.1	Accessible parts of equipment	aC aC aC	Р
V.2	Accessible part criterion	1 kg 1 kg	E P



.nC	10 ac ac	IEC 62368-1	)n )n )n	-10
Clause	Requirement + Test	14	Result - Remark	Verdict

4.1.2 TABL	E: List of critical com	ponents	110.	in Lin.	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) o conformity <sup>1</sup>
РСВ	XING HE	PCB-Z*	10Z, OSP, 94V0, RoHS, FR4, 190*119.2*1.0MM	"C "(	Test with appliance
Plastic enclosure	Chang Chun Sb(Changshu) Co Ltd	EME-5051	V-0, 130℃	UL 94 UL 746	UL E223871

Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance.

5.2	Table: 0	Classification of	electrical energy s	ources	11	11,	R In
5.2.2.2	<ul><li>Steady Stat</li></ul>	e Voltage and Cu	rrent conditions				
Supply		Location (e.g.		ı	Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk)	I (Apk or Arms)	Hz	ES Class
1	264Vac	T1 sec. output	Normal	11.1Vdc Max.	1 km	1411 1411	
			Abnormal	0			ES1
MC	THIC	CANC LANC	Single fault – SC/OC	THIC	1 Mic	1 Miles	THI
2	264Vac	C1	Normal	2.3Vdc Max.			
- C	- anc	anc .	Abnormal	0	an C	N/C	ES1
110.	In.	14. 1	Single fault – SC/OC	0	7" - T	_	2010
3	264Vac	C4	Normal	3.1Vdc Max.	-il-C	WAC.	1/20
10	110	14.	Abnormal	0		11.	ES1
MC	MC	MC	Single fault – SC/OC	0	MC	MC	

		1.000				
5.2.2	2.3 - Capacitano	e Limits				
	Supply	Location (e.g.	Paramet		neters	E0.01
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF	Upk (V)	ES Class
705	Jan - J	- MC	Normal	C anc	anc - anc	-inC
110.	110.	10.	Abnormal	170	1 - L 12.	1/19.
N	CHIC	MC	Single fault – SC/OC	CINC	MC - MC	- MAC
5.2.2	2.4 - Single Puls	es				



-aC	20, 20,	IEC 6230	68-1	0. 0. 0.	٠. ١
Clause	Requir	ement + Test	10	Result - Remark	Verdict

	Supply	Location (e.g.	<b>-</b>		Parameters		E0 01
).	Voltage	designation)	l est conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
C	- anc	- INC	Normal	C10	C	-nC	-10
	10.	14.	Abnormal	-1 <sub>U1</sub> ,	4 61.	4-12n.	- 1 br.
C	anC.	-inC	Single fault – SC/OC	C		-nC	-10
5.2.2.5 - Repetitive Pulses							
9	Supply	Location (e.g.	_ , , , , , , , ,		Parameters		<b>-</b> 0.01
		designation)	l est conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
-			Normal				
inc anc		Abnormal	C 31	C	-anC	- an	
	110			- 410	400	10.	110.
		2.2.5 - Repetitive F	Circuit designation)   2.2.5 - Repetitive Pulses  Supply Voltage   Location (e.g. circuit designation)	Circuit designation)  Test conditions  Normal Abnormal Single fault – SC/OC  2.2.5 - Repetitive Pulses  Location (e.g. circuit Voltage Circuit Test conditions  Test conditions	Supply Voltage   Circuit designation   Test conditions   Duration (ms)	Supply Voltage   Circuit designation   Test conditions   Duration (ms)   Upk (V)	Supply Voltage   Circuit designation   Test conditions   Duration (ms)   Upk (V)   Ipk (mA)

Test Conditions:

Normal -

Abnormal -

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

		7						
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperat	ure measu	rements		nC	-inC	JAC.	Р
10. VI	Supply voltage (V)	( L).	.: 90'	v :	264V	15.	1/2	_
	Ambient T <sub>min</sub> (°C)		.: 30.	0	30.0	7	/	_
LANC LAN	Ambient T <sub>max</sub> (°C)	rill'o	.: 30.	0 (1)	30.0	14/2	~ Line	_
	Tma (°C)		: 30.	0	30.0			_
Maximum meas	sured temperature T	of part/at:			Т	(°C)		Allowed T <sub>max</sub> (°C)
C1	C1			5	42.3			105
PCB near U1	C and	W/C	48.	3	48.9	SINC.	-d/C	130
Enclosure insid	e	Lin	35.	1	36.2	17	7	130
Enclosure outsi	de	. (	30.	5	30.6	(		95
Ambient	I WIND	( 1/1)	30.	0	30.0	1 1/2	1-4/V-	- 4N
Supplementary	information:							-
Temperature T	of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (	Ω) T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
	200							
The other	CailC	NAC.	"AVC	%	n	N/AC	- NILO	



	3				
	IEC 62368-1	aC aC aC	. (		
Clause	Requirement + Test	Result - Remark Verd	lict		

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

5.4.1.10.2	.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Penetration	(mm)				_		
Object/ Part	No./Material	Manufacturer/t rademark	Ts				
10/C	WE LANG LANG LANG	1-MC	TANC	THIC	1 MV		
supplementa	ary information:						

5.4.1.10.3	TABLE: Ball pro	essure test of thermoplastic	s		Р	
Allowed imp	oression diameter	(mm):	≤ 2 mm		_	
Object/Part No./Material Manufacturer/trademark			Test temperature (°C)	Impression diameter (mm)		
PCB		See table 4.1.2	125	1.0		
Plastic encl	osure	See table 4.1.2	125	1.3	112	
	tary information: ed for all alternativ	ve materials, same results obt	ained.	14	10	

	TABLE: Minimum Clearances/Creepage distance						
5.4.2.4 and 5.4.3	- inc		C	nC	JII.	-inC	-INC
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm) <sup>2</sup>	Required <sup>3</sup> cr (mm)	cr (mm)
L- N before F1	420	250	30	1.5	3.5	2.5	3.5
Across F1	420	250	30	1.5	3.0	2.5	3.0
Primary live parts to enclosur outside	e 420	250	30	4.0	6.8	5.0	6.8

Supplementary information:

Note 1: Only for frequency above 30 kHz

Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

5.4.2.3	TABLE: Minimum Cle	arances distances using	required withstand	voltage	N/A
	Overvoltage Category	(OV):	Li. Li	1	10
	Pollution Degree:	. ( ( ( (			c. <del>-</del>
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measur	red cl (mm)

TMC Testing Services(Shenzhen) Co., Ltd.
Testing&Certification Services

1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen, China t (86 )755 86642861 Mail:cert@tmc-lab.com www.tmc-lab.com



above.

Supplementary information:

	20 20	IEC 62368-1		CC	
Clause	Require	ement + Test	Result -	Remark	Verdict
5.4.2.3	TABLE: Minimum Clea	arances distances using	required withstand	voltage	N/A
	Overvoltage Category	(OV):	1, 1,	7	
	Pollution Degree:	. ( . ( .		CC.	
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Measured	cl (mm)
See table 5	5.4.2.2, 5.4.2.4 and 5.4.3	C - C	C		

5.4.2.4 TABLE: Clearances based	on electric streng	gth test	1811	R Kill
Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdov Yes / No	
L to N (F1 FR1 opened)	2.5	1500V	No	1 10
Input terminals to enclosure	7.2	3000V	No	
Supplementary information:	C NAC	ONE ONE	· «In C	Ns.

5.4.4.2, TABLE: D 5.4.4.5 c) 5.4.4.9	Distance through insulation	on measurem	ents	INC TH	IC P
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Enclosure	420	30	Illab	0.4	1.5
Insulation tape	420	30	Illab	Min 2 layers	3 layers
Supplementary informa	tion:	My 1	Mr. Li	V. Lay	1 197

5.4.9	TABLE: Electric strength tests	anc anc	a'nC	Par Par
Test volta	nge applied between:	Voltage shape (AC, DC)	Test voltage (V	) Breakdown Yes / No
Functiona	al: all all all	anc anc	a'nC	anc all
L to N (fu	se F1 opened)	AC	1500	No
Basic/sup	plementary:		. (.	. C.
Input term	ninals to metal enclosure	AC	1500	No. No.
Reinforce	ed:			
T1 primar	y to secondary	AC AC	3000	No No
T1 core to	secondary	AC	3000	No
Unit prima	ary to secondary	AC	3000	No
Suppleme	entary information:	Lay Lay	11/1	14/10 14



-aC	IEC 62368-1	20, 20, 20,	
Clause	Requirement + Test	Result - Remark	Verdict

MC	WIC	MC	WC.	ALC A	On:	MC	MC	Ny.
5.5.2.2	TABLE: St	ored dischar	ge on capacito	ors		7.	11.	N/A
Supply Vo	oltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off		ured Voltage 2 seconds)	ES Class	sification
/		,	-,	<del></del>			,	
W.C	- WIL	· W	190	WC - 1	St.	MIC	- 1/10	129-
Suppleme	entary informat	tion:				7,	7	4.
X-capacite	ors installed fo	r testing are:		(	. (			
□ bleed	ing resistor ra	ting:	MIL	N. C.		- W	MI	- 60
☐ ICX:		, ,					-/-	
Notes:			. 6.					
A. Test Lo	ocation:		My -	in in	W.	- W	- WILL	
Phase to	Neutral; Phase	e to Phase; Pl	nase to Earth; a	and/or Neutral t	to Earth	-1.	.1.	-1
B. Opera	ting condition	abbreviations	,	/	1	/	-	
N - Norm	al operating co	ondition (e.g.,	normal operation	on, or open F1	); S -Sin	gle fault cond	ition	

5.6.6.2	TABLE: Resistance	ons	N/A		
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
<u>4</u> 1C	THIC THIC	KINC KIN	TC THIC	7 10 <u>1</u> C	THE THE
Suppleme	entary information:				

5.7.2.2, 5.7.4	TABLE	: Earthed ac	cessible con	ductive par		. (.			N/A
Supply vo	ltage	401			14/	14/1	1		_
Location							n No		ch current (mA)
MC	NAC	MC	MC	THIC	TWC	1 2	-1	UC.	- 197
		-/.		-1.		3			-
MC	THIC	THIC	THIC	THIC	THIC	5	~ (	U.C.	- (1/1/
in C	in C	30.0	in C	,nC	inC	6		nC.	



-nC	IEC 62368-1	0,000	
Clause	Requirement + Test	Result - Remark	Verdict

# Supplementary Information:

#### 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.

6.2.2 Ta	ble: Electrical	power sources	(PS) measurements f	or classification	Line Line
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
W A W	Internal circuits of	Power (W) :	1 km - 1 km	1 12 X	1911
	the unit	V <sub>A</sub> (V) :			PS2
ain ain	C and	I <sub>A</sub> (A) :		O <sub>NIN</sub> C	an an

### Supplementary Information:

(\*) Measurement taken only when limits at 3 seconds exceed PS1 limits

SC=short circuit; OC=open circuit

6.2.3.1	Table: Determination 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 <sub>p</sub> x I <sub>rms</sub> )	Yes / No			
N/IC	WILC WILC	W.C.	enc - mac	- nifiC	anc - an			

## Supplementary information:

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	Table: Det	Determination of Potential Ignition Sources (Resistive PIS)						
Circui	it Location (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		
NIC	-WC	will - will	· KITC	- WC	W - W	~ - N		



-nC	IEC 62368-1	0,000	
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary Information:

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	- W	NIC		VC	·WC	N/A	
Description	n		Values			Energy Source Classification		
Lamp type	9:		C			_		
411	urer:	1/1/1	12/10	1/1/		_		
Cat no	· · · · · · · · · · · · · · · · · · ·			*		_		
Pressure	(cold) (MPa):	W/C	ain C	al	(C	MS_	N.	
Pressure	(operating) (MPa):	1/2	17	1		MS_	1/10	
Operating	time (minutes):	-	- /			_		
Explosion	method:	MIL	T HIND	~ 5		_		
Max partio	cle length escaping enclosure (mm). :	*				MS_	/	
Max partio	cle length beyond 1 m (mm):	Jac C	-,, C	- 4	C	MS_	-n<	
Overall re	sult:	1 20,	140	10	7.	100	1/21	
Suppleme	entary information:							

B.2.5	TABLE: Inp	ut test			-/			Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I F1 (A)	Conditio	n/status
90V/60Hz	0.33	191 - 14	30	Mr 10	F1	0.33	EUT norma	al working
100V/60Hz	0.30		30		F1	0.30		
240V/50Hz	0.12	NIC NI	30	NO-	√F1	0.12	MC	
264V/50Hz	0.11	- 41	30	T	F1	0.11	11,	1/10

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

B.4 TABLE: Fault condition tests
----------------------------------



-nC	IEC 6236	8-1	
Clause	Requirement + Test	Result - Remark	Verdict

Ambient tempera	ature (°C)				: 23.5	- W	10	<u> </u>
Power source fo	r EUT: Manı	ufacturer, mode	el/type, outp	ut rating	j:			
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse No.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
IC1(1-3)	sc	264Vac	10mins	F1	THIC	LANC	140	The power is decrease to 0.12W immediately, Recoverable no hazard.
C1(2-6)	SC	264Vac	10mins	F1	THIC	LANC	1/1/1	The power is decrease to 0.11W immediately, Recoverable no hazard.
C1 TWN	SC	264Vac	1s	F1	LAN.	Time	-1-	Fuse opened no damage, no hazard.

Annex M	TAB	LE: Batt	eries	an C	on C	,nC	, ,	nC	an C	N/A
The tests of	of Anne	ex M are	applicable	only when app	propriate b	attery data	is not ava	ilable	164	1/4/
Is it possible	le to in	stall the	battery in a	reverse polar	ity position	າ?	:			
		Non-re	echargeable	e batteries	Rechargeable batteries					
		Discharging		Un-	Charging		Disch	Discharging		d charging
		Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. curred during norr condition		. ``		-inC	7.U.C			 \C	7.	7
Max. curred during fault condition		- <	( <u>)</u>	(Z <sub>0</sub> , ×	(70)	-4 <sub>D</sub>	<	°	₹.p.,	- 4/2
							IP .			
Test results	s:					*	120			Verdict
- Chemical	leaks	/	INC.	-inC	-INC	-inC	/ 2	10	-INC	N/A
- Explosion	of the	battery	<i>A</i> . ×	(b).	Les.	14	1		14.	N/A
- Emission	of flan	ne or exp	oulsion of m	olten metal	- /			-		N/A
- Electric st	trength	tests of	equipment	after completi	on of tests	-19/2	- 1	No	- NO	N/A



TMC Testin	ng Services (Shenzhen) Co., Li	Report No.: TMC210713105-S					
an C	nC nC	-nC	EC 62368-1	٠.،٥	an C	-0	
Clause	Requ	irement + Test	Len Len	Result - Rema	ark	Verdict	
Annex M	TABLE: Batteries	·WC	WC W	C MC	· W/C	N/A	
The tests of	of Annex M are applicabl	e only when app	oropriate battery da	ta is not available	7.	7	
Is it possib	le to install the battery in	a reverse polar	rity position?	·····: c			
	Non-rechargea	ble batteries	Rechargeable batteries				
	Discharging	Un-	Charging	Discharging	Reverse	d charging	

Meas.

current

Manuf.

Specs.

Meas.

current

Manuf.

Specs.

Meas.

current

Manuf.

Specs.

intentional

charging

Manuf.

Specs.

Meas.

current

Supplementary information:

In In	_ <	112	110.	11/1/		11	4	110.	~ 1		1/1/2	
	ole: Add teries	itional saf	eguards for	equipme	ent co	ntaini	ing secor	dary lit	hium	20	N/A	
Battery/Ce	ell	Test	Test conditions			Measurements					Observation	
No.					U	I (A)		T	emp (C)			
10. 14.		Normal	14.	10.		1	-	110.	<	2.	-1/4	
- ,	,	Abnormal	2									
Singl		Single fau	lt –SC/OC	11/2	_	1	V	1970	- <	Vr.	- 4	
Supplementary I	nformati	on:										
Battery identification	-	arging at T <sub>lowest</sub> (°C)	Obs	ervation		С	charging a T <sub>highest</sub> (°C)	t	Obs	ervatio	n	
- WC 4 MC	/	W.C.	NIC .	THIC		1/1		MC	~ (d)	<u>_</u>	~ NIC	
Supplementary I	nformati	on:										

- III	July July	- INC	AN L	WILL STREET	Mrs. Mrs.	Ar and
Annex Q.1	TABLE: Circuits	intended for inter	connection wit	h building wir	ing (LPS)	N/A
Note: Meas	sured UOC (V) with	all load circuits disc	connected:	ain C	in on	C
Output Components		U <sub>oc</sub> (V)	Is	c (A)	S (	VA)
Circuit			Meas.	Limit	Meas.	Limit
W.	W - W	- W	WINC -	100	11 - W	- W
Supplemer	ntary Information:		,			
SC=Short	circuit, OC=Open cir	cuit	an C	,nC	nC _n	C

T.2, T.3,	TABLE:	Steady force	test					N/A
T.4, T.5	-1/1 C	-INC	-in C	"INC	-inc	-inC	-in-C	200

-nC	IEC 6236	8-1	
Clause	Requirement + Test	Result - Remark	Verdict

Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
- /	- /		· ·	- /	- /
Supplementary info	ormation:	WILL IN	No Will	- W	- My M

T.6, T.9	TABL	E: Impact tests	an C	one one	,nC ,nC	P
Part/Locat	tion	Material	Thickness (mm)	Vertical distance (mm)	Observation	
Enclosur	re C	Plastic	1.5	1300	No damage, no hazaro	l
Supplementa	ary info	rmation:	( La. 1	19. 16y	14, 14,	100

T.7	TABLE	E: Drop tests	MC	MC	MIC	NIC	- WC	N/A
Part/Lo	ocation	Material	Thickness (mm)	Drop I		Obs	servation	
W.C.	THIC	THIC	LANG.	THIC	THE	TWIC	TIME	LANG
MC	THIC	THIC	TIME	1 MC	TWC	THIC	TIME	THIC
Supplem	entary infor	mation:		.a.C	ی د	٥.		

T.8 1	TABLE: Stress relief test						
Part/Locatio	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation		
- Supplementar	10 - 10 C	MC	WC - W	C - 44C	- 1010 101		



<b>.</b>	, , , , ,	· · · · · ·	
nC .nC	ATTACHMENT TO TEST REPO	RT IEC 62368-1	C .
Clause	Requirement + Test	Result - Remark	Verdict

# ATTACHMENT TO TEST REPORT IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Attachment Originator...... EN 62368-1:2014

EN 62368-1:2014

EU\_GD\_IEC62368\_1B

Intertek Semko AB

Copyright © 2015 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE)

. C.	CENELEC COMMON MODIFICATIONS (EN)	. C.	. ( .		
4	NOTE Z1	10	- 10/1	- W	N/A
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	an C	"ILC	a'nC	N/A
12. X.1.	a) Included as parts of the equipment	100	1/2	1/10	N/A
. C	b) For components in series with the mains; by devices in the building installation	. C	. (		N/A
EL LE	c) For pluggable type B or permanently connected; by devices in the building installation	130	100	160	N/A
5.4.2.3.2.4	Interconnection with external circuit		-	1	N/A
10.2.1	Additional requirements in 10.5.1	N.	- NO	· No.	N/A
10.5.1	RS1 compliance measurement conditions		1,	1.	N/A
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances	5.45			N/A
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	SUC.	THIC	14VC	N/A
G.7.1	NOTE Z1		7	- 180	Р

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (E	EN)	1.	1.	1.
4.1.15	Denmark, Finland, Norway and Sweden: Class I pluggable equipment type A marking	nC.	· MC	MAC	N/A
4.7.3	United Kingdom: Torque test socket-outlet BS 1363, and the plug part BS 1363.	a C	.,	710	N/A
5.2.2.2	Denmark: Warning for high touchcurrent	20	164	161	N/A
5.4.11.1 and Annex G	Finland and Sweden: Separation of the telecommunication network from earth	UC.	THIC	THIC	N/A
5.5.2.1	Norway: Capacitors rated for the applicable line-to-line voltage (230 V).	UC.	THIC	THIC	N/A
5.5.6	Finland, Norway and Sweden: Resistors used as basic safeguard or bridging basic insulation comply with G.10.1 and G.10.2.	nC.	MC	in	N/A

MC Testing Services (Shenzhen) Co., Ltd.	Report No.: TMC210713105-S

01		D	Vordict	
Clause	Requirement + Test	Result - Remark	Verdict	
5.6.1	Denmark:		N/A	
1.0.1		The Think	IN/A	
11	Protection for pluggable equipment type A;	41, 41,		
	integral part of the equipment			
.6.4.2.1	Ireland and United Kingdom:		N/A	
	The protective current rating is taken to be 13 A	No Will		
5.6.5.1	Ireland and United Kingdom:	1. 1.	N/A	
	Conductor sizes of flexible cords to be accepted			
.C .	by terminals for equipment rated 10 A to 13 A	) a C . a C		
5.7.5	Denmark:	7711 7711	N/A	
7.11.5	The installation instruction affixed to the		13//3	
764	equipment if high protective conductor current		NI/A	
5.7.6.1	Norway and Sweden:	14. 16.	N/A	
	Television distribution system isolation text in	A		
_	user manual		p.	
5.7.6.2	Denmark:	- 21/1° 21/1°	N/A	
1	Warning for high touch current	In In.	-	
3.3.1	Ireland and United Kingdom:		N/A	
ind	Tests conducted using an external miniature		-	
3.4	circuit breaker or protective devices included as	1/1/2 1/1/2		
11	an integral part of the direct plug-in equipment	11. 11.		
3.4.2	Denmark:		N/A	
J. <del></del>			17/7	
N W	Appliances rated ≤13 A provided with a plug	W. W.		
1.	according to DS 60884-2-D1:2011.	7. 7,		
	Class I equipment provided with socket-outlets		N/A	
C 10	provided with a plug in accordance with standard	) n O n		
1. V.	sheet DK 2-1a or DK 2-5a.	161, 161,	- 2	
	If a single-phase equipment having rated >13 A		N/A	
1	or poly-phase equipment provided with a supply	1. 1.		
1/2 - 1/2	cord with a plug, plug in accordance with the	WILL WILL	. 6	
1. 11.	standard sheets DK 6-1a in DS 60884-2-D1 or	14 14		
	EN 60309-2.			
C.	Mains socket outlets intended for providing power	(	N/A	
No. of	to Class II apparatus rated 2,5 A in accordance	No No		
11	with DS 60884-2-D1:2011 standard sheet DKA 1-	1, 1,		
	4a.			
(C :	Other current rating socket outlets in compliance	100	N/A	
1 / 1/2	with Standard Sheet DKA 1-3a or DKA 1-1c.	1 M 1 M	1 11/7	
	Ţ Ţ		NI/A	
	Mains socket-outlets with earth in compliance		N/A	
10 41	with DS 60884-2-D1:2011 Standard Sheet DK 1-	- min - min	-	
1	3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	< 10. < 10.		
6.4.2	United Kingdom:		N/A	
(	The plug part of direct plug-in equipment			
10 11	assessed to BS 1363	1/2 1/2	-	
3.7.1	United Kingdom:	10 10	N/A	
	Equipment fitted with a 'standard plug' in			
C	accordance with the Plugs and Sockets etc			
	1			
No will	(Safety) Regulations 1994, Statutory Instrument	' Li, ' Ci,	2	

Report No.: TMC210713105-S **ATTACHMENT TO TEST REPORT IEC 62368-1** Result - Remark Clause Requirement + Test Verdict G.7.1 Ireland: N/A Apparatus provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use G.7.2 Ireland and United Kingdom: N/A A power supply cord for equipment which is rated over 10 A and up to and including 13 A.

ZC	1.	ANNEX ZC, NATIONAL DEVIATIONS (EN)		1.	7.	
10.5.2	1 KI	Germany: Cathode ray tube intended for the display of visual images, authorization or application of type approval and marking.	AUC.	THIC	TANC	N/A
F.1	150	Italy: The power consumption in Watts (W) indicated on TV receiver and in instruction for use	N.C.	THINC	THE	N/A
UC.	10	TV receivers provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.	W.C	LINC	THIC	N/A
nC		Marking for controls and terminals in Italian language.	an C	MC	· «NC	N/A
	110	Conformity declaration according to the above requirements in the instruction manual		11	7,	N/A
VC.	T FU	First importers of TV receivers manufactured outside EEC previous conformity certification to the Italian Post Ministry and Certification number on the backcover.	ALC.	TANC	LINC	N/A



Details of: External View

.....



Details of: External View

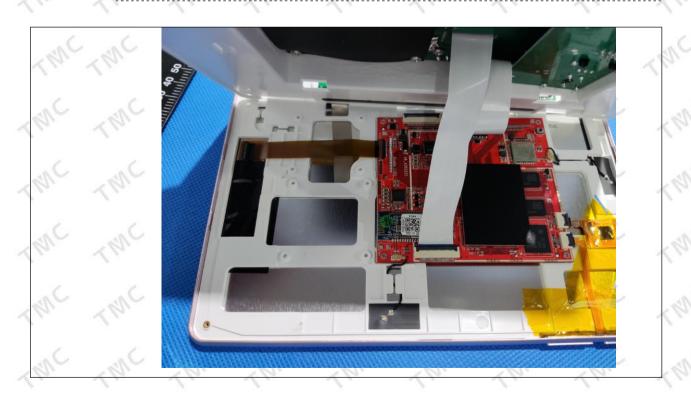


Testing Services (Shenzhen) Co., Ltd. Report No.: TMC210713105-S

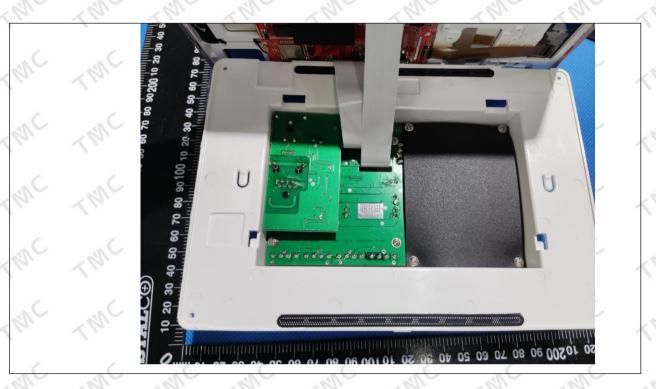
Details of: External View



Details of: Internal View



Details of: Internal View



END OF TEST REPORT