

LVD TEST REPORT

On Behalf of

Shenzhen Xinyuda Technology Co., Ltd

Product Name: Anti-gravity humidifier Bluetooth speaker

Trademark: N/A

Model Number: Y13

Prepared For: Shenzhen Xinyuda Technology Co., Ltd

Address: 1005, Block A, Sihai Yunchuang, Houting Community, Shajing Street,

Bao'an District, Shenzhen

Prepared By: Shenzhen Huaxiang Testing Co., Ltd

Address: 201, Building A10, Fuhai Information Port, Fuhai Street, Bao'an District,

Shenzhen City

Report No.: HUAX240319044KR

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 1 of 50



TEST REPORT

EN IEC 62368-1:2020+A11:2020

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

Reference No...... HUAX240319044KR

Contents.....: 50 pages

Test Date...... Mar. 18, 2024 - Mar. 22, 2024

Date of issue.....: Mar. 22, 2024

Testing laboratory

Name...... Shenzhen Huaxiang Testing Co., Ltd

Shenzhen City

Testing location...... Same as above

Client

Name...... Shenzhen Xinyuda Technology Co., Ltd

Bao'an District, Shenzhen

Test specification

Standard...... EN IEC 62368-1:2020+A11:2020

Test procedure CE-LVD

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

Test item

Trademark.....: N/A
Model and/or type reference...: Y13

Manufacturer..... Shenzhen Xinyuda Technology Co., Ltd

Bao'an District, Shenzhen

Rating(s)..... : DC 5V, 5W

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 2 of 50



Testing procedure and te	esting location	esting isology	Testing iang T	esting Cesting
Laboratory name	: Shenzhen Huaxiar	ng Testing Co., Ltd		
Testing location/address:	: 201, Building A10, Shenzhen City	Fuhai Information Por	t, Fuhai Street, Ba	o'an District,
Testing procedure	: TL ⊠ RMT □	SMT WMT	TMP 🗌	
Prepared by (Engineer) Reviewed By	Kevin Su . Amy Jiang	IMPARTIAL Product Safety Approved *	L Huanens Huanens (esing transpung tesing
(Supervisor)	Hnaxiaua Hnaxiaua	And James	^{Yau} a Hnaxiaua	Huajjany

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 3 of 50



Classification of use by	Supply Connection	axiana
person Skilled person Children likely to be present	Supply Connection	⊠ Ordinary person
Supply Connection Considered current rating of protective device as part of building or equipment installation Considered current rating of protective device as part of building or equipment installation Considered current mobility Considered current mobility Converting category (OVC) Cover voltage category (OVC) Cotass ii Class ii Class iii Class iiii Class iiii Class iiii Class iiii Class iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Supply Connection	⊠ Instructed
Supply Connection Children likely to be present	Supply Connection	person Skilled
Supply Connection	Supply Connection □ A □ D □ E □ E □ A □ D □ E □ Supply Connection = Type □ pl □ nc □ nc □ al □ pc □ nc □ nc	⊠ person
DC Mains External Circuit - not Mains connected - ≥ ES1 ES2 ES3 Supply % Tolerance	Supply % Tolerance	
External Circuit - not Mains connected -	Supply % Tolerance	AC Mains
Supply % Tolerance - ES1 ES2 ES3 \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Supply % Tolerance - + + + + + + + + +	☐ DC Mains
Supply % Tolerance :: +10%/-10% +20%/-15% +	Supply % Tolerance + + + + + + + + + + + + + + + + + +	⊠ External Circuit - not Mains connected
Supply Connection – Type	Supply Connection – Type	- ⊠ ES1 □ ES2 □ ES3
□ +%/% None Supply Connection – Type □ pluggable equipment type A -	Supply Connection – Type	+10%/-10%
Supply Connection – Type	Supply Connection – Type	+20%/-15%
Supply Connection – Type	Supply Connection – Type	+
non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other: not mains connected other: not pullding; equipment other: not pullding; equipment other: not plugding other: not plugding other: not mains connected other: not plugding other: not mains connected other: not plugding other: not plugdin	Considered current rating of protective device as part of building or equipment installation	⊠ None
appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector □ other; not mains connected Considered current rating of protective device as part of building or equipment installation □ mating connector □ other; not mains connected O.5A □ Installation location: □ building; □ equipment □ Movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted Over voltage category (OVC) □ OVC I□ OVC II□ OVC II□ □ OVC IV ☑ other: not mains connected Class of equipment □ Class I□ Class II□ □ Access location. □ restricted access location ☑ N/A Pollution degree (PD) □ PD 1 ☑ PD 2 □ PD 3 Manufacturer's specified maxium operating ambient.	a di di m pl m pl m pl m m pl m m pl m m m m m m m m m	☐ pluggable equipment type A -
direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other; not mains connected O.5A Installation location: building; equipment mobility direct plug-in rack-mounting wall-mounted Over voltage category (OVC) OVC	Considered current rating of protective device as part of building or equipment installation Installatio	non-detachable supply cord
□ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection mating connector ○ other: not mains connected Considered current rating of protective device as part of building or equipment installation 0.5A Installation location: □ building; □ equipment Equipment mobility □ Movable □ hand-held □ transportable □ stationary □ of building-in □ direct plug-in □ rack-mounting □ wall-mounted Over voltage category (OVC) □ OVC I □ OVC II □ OVC III □ OVC I ∨ other: not mains connected 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	Considered current rating of protective device as part of building or equipment installation : Installat	appliance coupler
pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other: not mains connected	Considered current rating of protective device as part of building or equipment installation Installatio	☐ direct plug-in
non-detachable supply cord appliance coupler permanent connection mating connector other: not mains connected	Considered current rating of protective device as part of building or equipment installation Installatio	☐ mating connector
□ appliance coupler □ permanent connection □ mating connector ⋈ other; not mains connected Considered current rating of protective device as part of building or equipment installation 0.5A 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) □ OVC I □ OVC II □ OVC III □ OVC IV ☑ other: not mains connected 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	Considered current rating of protective device as part of building or equipment installation	☐ pluggable equipment_type B -
□ permanent connection □ mating connector □ other: not mains connected Considered current rating of protective device as part of building or equipment installation □ mating connected O.5A 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) □ OVC II □ OVC III □ OVC IV □ other: not mains connected Class of equipment □ Class II □ 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. □ other: not mains connected □ Class II □ Class III □ Class III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC III □ OVC III □ OVC IV □ OVC III □ OVC I	Considered current rating of protective device as part of building or equipment installation	☐ non-detachable supply cord
□ mating connector ☑ other: not mains connected Considered current rating of protective device as part of building or equipment installation 0.5A 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) □ OVC I □ OVC II □ OVC III □ OVC IV ☑ other: not mains connected 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	Considered current rating of protective device as part of building or equipment installation	appliance coupler
Considered current rating of protective device as part of building or equipment installation	Considered current rating of protective device as part of building or equipment installation	permanent connection
Considered current rating of protective device as part of building or equipment installation	Considered current rating of protective device as part of building or equipment installation	mating connector
building or equipment installation	building or equipment installation	⊠ other <u>: not mains connected</u>
Equipment mobility □ equipment Equipment mobility □ Movable □ hand-held □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted Over voltage category (OVC) □ OVC I □ OVC II □ OVC III □ OVC III □ OVC III □ OVC IV ☑ other: not mains connected 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	Equipment mobility M Equipment mobility M It fo Cover voltage category (OVC) O Class of equipment C Access location C Pollution degree (PD) P Manufacturer's specified maxium operating ambient IP protection class III Power Systems III	D.5A
Equipment mobility : Movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☐ wall-mounted Over voltage category (OVC) ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not mains connected Class of equipment ☐ Class II ☐ 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	Equipment mobility	nstallation location:
Image: Stationary and the content of the content	Over voltage category (OVC) Class of equipment Access location Pollution degree (PD) Manufacturer's specified maxium operating ambient. IP protection class String of the protection class IP power Systems Time to protection class II power Systems II power Systems	equipment
□ for building-in □ direct plug-in □ rack-mounting □ wall-mounted Over voltage category (OVC) □ OVC I □ OVC II □ OVC III □ OVC III □ OVC III □ OVC IV ☑ other: not mains connected 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	Over voltage category (OVC) OC	☐ Movable ☐ hand-held
Over voltage category (OVC) □ OVC I □ OVC II □ OVC III □ OVC IV ☑ other: not mains connected Class of equipment □ Class I □ Class II ☑ Class III Access location □ restricted access location ☑ N/A Pollution degree (PD) □ PD 1 ☑ PD 2 □ PD 3 Manufacturer's specified maxium operating ambient 40°C	Over voltage category (OVC) OCI	⊠ transportable □ stationary
Over voltage category (OVC) OVC I OVC II OVC II OVC IV other: not mains connected 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.	Over voltage category (OVC) Class of equipment Access location Pollution degree (PD) Manufacturer's specified maxium operating ambient. IP protection class VIII Power Systems	☐ for building-in ☐ direct plug-in
□ OVC IV ⋈ other: not mains connected 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	Class of equipment C Access location re Pollution degree (PD) P Manufacturer's specified maxium operating ambient 40°C IP protection class	☐ rack-mounting ☐ wall-mounted
Class of equipment	Class of equipment C Access location re Pollution degree (PD) P Manufacturer's specified maxium operating ambient IP protection class Power Systems T	
Access location □ restricted access location □ N/A Pollution degree (PD) □ PD 1 □ PD 2 □ PD 3 Manufacturer's specified maxium operating ambient 40°C	Access location	☐ OVC IV ☑ other: not mains connected
Access location	Access location	☐ Class I ☐ Class II ⊠ Class III
Manufacturer's specified maxium operating ambient	Manufacturer's specified maxium operating ambient. 40°C IP protection class ⋈ II Power Systems □ T	☐ restricted access location ⊠ N/A
Manufacturer's specified maxium operating ambient	Manufacturer's specified maxium operating ambient. 40°C IP protection class ⋈ II Power Systems □ T	□ PD 1 ⊠ PD 2 □ PD 3
	IP protection class	40°C
IP protection class	Power Systems.	X IPX0 □ IP
Altitude during operation (m)	Altitude during operation (m)	

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 4 of 50



	. ^ ()		Δ	. ^ ()	. 0//	
POSSIBLE T	EST CASE VERDICTS	S: Huaxu	HUBKI	Hugye Hu	410	BX10 HU
- test case do	es not apply to the test	object	N/A	Testing	resting	Testing
- test object d	loes meet the requirem	ent	P (Pass)	Hnaxiaua Hn	axian o	laxian s
- test object d	loes not meet the requi	rement	F (Fail)	Philips.	e _{nin} g ,	enits.
TESTING:	axiang res	. Jaxiang Tes	Javiang Tes	Parising Tes	axiang Tes	axiang
Date of receip	ot of test item		Mar. 18, 20)24	. ~ O	0
Date (s) of pe	erformance of tests	763 140 163 M	Mar. 18, 20)24 - Mar. 22, 20	24	:ang Testins
General produc	ct information:	iliud Hns.	Hos. ng resting	Ja Lesting	na Testina	na Testing
GENERAL R	EMARKS:	nires Tenik	<u>enires 7</u> en	enires Testing	iang Testing	enites Tens
400 - 6	this report a ☐ comr nining the test result,	Hos -		HOR - HO		
List of Attacl)	: Same as r	maxiang Testillis	ione Testine Hu	eviang Testing Hu tang Testing
List of Attacl	9)tuskeng festi	: Same as r	maxiang Testillis	axiang Tesiing Hu axiang Tesiing	_{zarian} g Testing Hu Bakiang Testing Hu
List of Attacl	hments: lo. 1: Photograph.		: Same as r	maxiang Testillis	aliang Tesling Ho aliang Tesling Ho aliang Tesling	axiang Testing Hu axiang Testing Hu
List of Attack Attachment N Summary of Tests perfore	hments: lo. 1: Photograph. testing:	iing Huaxiang Testir Jing Huaxiang Testir Jing	Huaxiang Testing Huaxiang Testing	nanufacturer	Axiono Testino Hu Axiono Testino Hu Axiono Testino	0+A11:2020

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 5 of 50



Copy of marking plates

Anti-gravity humidifier Bluetooth speaker

Model: Y13

Rating: DC 5V, 5W

C€ ፮ <

Shenzhen Xinyuda Technology Co., Ltd

1005, Block A, Sihai Yunchuang, Houting Community, Shajing

Street, Bao'an District, Shenzhen

Made in China

Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
- 2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.
- 3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.
- 4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 6 of 50



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)		
Internal circuitry	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 circuit	PS2			
Battery cell output	PS2			
Battery pack output	PS2			

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
Complied with annex M	Li-ion

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)
All accessible parts	TS1 (85)

Radiation (Clause 10)

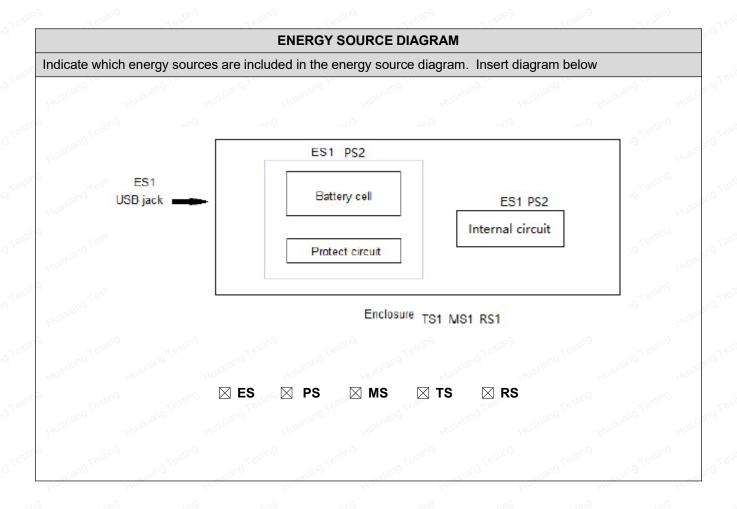
(Note: List the types of radiation present in the product and the corresponding energy source classification.)

Example: DVD - Class 1 Laser Product RS1

Type of radiation	Huaxia	Huaxia	Corresponding classification (R	RS)
LED light			RS1	

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 7 of 50





Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 8 of 50



Clause	Possible Hazard						
5.1	Electrically-caused in	His His His His His His					
Body Part	Energy Source Safeguards						
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)			
Ordinary	ES1	N/A	N/A	N/A			
6.1	Electrically-caused fir	re	(500)	.,00			
Material part	Energy Source		Safeguards				
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced			
Internal circuitry	PS2: <100 Watt circuit	No ignition occurred.	PCB is complied with V-0 material;	Testing			
	uaxians testing	2. No parts exceeding 90% of its spontaneous ignition temperature.	2. all other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material	iang Testing			
Battery	PS2: <100 Watt circuit	No ignition occurred.	1. PCB is complied with V-0 material;	Testing			
	UBXIBNO HUBXIBNO	2. No parts exceeding 90% of its spontaneous ignition temperature.	2. all other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material	xiang Testing			
7.1	Injury caused by haz	ardous substances					
Body Part	Energy Source		Safeguards				
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced			
Complied with annex M	Li-ion Battery	N/A	N/A	N/A			
8.1	Mechanically-caused	l injury					
Body Part	Energy Source		Safeguards				
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)			
Ordinary	MS1: Sharp edges and corners	N/A	N/A	N/A			
Ordinary	MS1: Equipment mass	N/A	N/A	N/A			
9.1	Thermal Burn						
Body Part	Energy Source		Safeguards				
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced			
Ordinary	TS1: Accessible plastic 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			
Ordinary	LED light: exempt	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

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 9 of 50



	EN IEC 62368-	1 _{ing sing sing}	
Clause	Requirement	Remark	Result
4	GENERAL REQUIREMENTS	ing ing ing	Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	9 P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	_{g Testi} P) HI g Testing
4.1.3	Equipment design and construction	No accessible part which could cause injury	y Testi P
4.1.15	Markings and instructions	(See Annex F)	P
4.4.4	Safeguard robustness	See below	P)
4.4.4.2	Steady force tests	(See Annex T)	Р
4.4.4.3	Drop tests	(See Annex T)	P 🖄
4.4.4.4	Impact tests	ing sting sting	N
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	Hraxiana Hraxiana Hraxian	N
4.4.4.6	Glass Impact tests:	in ⁹ sin ⁹ sin ⁹	N
4.4.4.7	Thermoplastic material tests:	(See Annex T)	Р
4.4.4.8	Air comprising a safeguard:	How How	N
4.4.4.9	Accessibility and safeguard effectiveness	No damaged	TestiP
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	P H
4.6	Fixing of conductors	aiang (ensive	N
4.6.1	Fix conductors not to defeat a safeguard	Hog. Hog. Hog.	N
4.6.2	10 N force test applied to	ling Testing	Test N
4.7	Equipment for direct insertion into mains socket-outlets	Hnaxiaua Hnaxiaua Hnaxia	N H
4.7.2	Mains plug part complies with the relevant standard	See above	Tes N
4.7.3	Torque (Nm)	See above	N
4.8	Products containing coin/button cell batteries	No coin/button batteries used.	resti N
4.8.2	Instructional safeguard	Telye, Political Political	N
4.8.3	Battery Compartment Construction	Ho. Ho.	N
o viang Te	Means to reduce the possibility of children removing the battery:	ing Aiang Tesing Aiang Tesing Aian	g Testing
4.8.4	Battery Compartment Mechanical Tests	Hos. Hos.	N
4.8.5	Battery Accessibility	ing testing testing	Test N
4.9	Likelihood of fire or shock due to entry of conductive object	It's impossible entry of a conductive object from outside the equipment.	N H

5	ELECTRICALLY-CAUSED INJURY	Pois Pois Pois	Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	ng Tes P
5.2.2	ES1, ES2 and ES3 limits	ES1 Vale	P HUS

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 10 of 50



Clause	Requirement	Remark	Result
Place	Hospital Hospital Hospital	Hosele, Hosele,	/ toodic
5.2.2.2	Steady-state voltage and current:	See appended table 5.2)	P P
5.2.2.3	Capacitance limits	wigng wigng wight	S N
5.2.2.4	Single pulse limits:	No such single pulses with the EUT	N
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses with the EUT	N N
5.2.2.6	Ringing signals	No such ringing signals with the EUT	N H
5.2.2.7	Audio signals	wiene (eneigh) N
5.3	Protection against electrical energy sources	ES1	N
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See above.	o Testi N
5.3.2.1	Accessibility to electrical energy sources and safeguards	Hop Hop Hop.	N H
5.3.2.2	Contact requirements	nsi	o N
Huar	a) Test with test probe from Annex V:	Hugy Hugy Hugy	N 🖔
9	b) Electric strength test potential (V)	enies enies enies	N
axiang '	c) Air gap (mm)	oxiend ' energ') N
5.3.2.4	Terminals for connecting stripped wire	How How How	N
5.4	Insulation materials and requirements	esting resting	√ SN
5.4.1.2	Properties of insulating material	akign ⁹ (Praixe	N
5.4.1.3	Humidity conditioning:	Hu Hu Hu	N
5.4.1.4	Maximum operating temperature for insulating materials	esins Tesins Tesins	N N
5.4.1.5	Pollution degree:	Ho. Ho. Ho.	_ ~
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	esins Testins Testins	N STORY
5.4.1.5.3	Thermal cycling	Ha Ha Ha	N
5.4.1.6	Insulation in transformers with varying dimensions	esing Tesing	< 8 N
5.4.1.7	Insulation in circuits generating starting pulses	ensiksus. Pasiksus.	N
5.4.1.8	Determination of working voltage	4. 4.	N
5.4.1.9	Insulating surfaces	eshing Teshing	√e st Ν
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Huaxian's Huaxian's Huaxian	N
5.4.1.10.2	Vicat softening temperature:	esill's Testill's Testill's	√° N
5.4.1.10.3	Ball pressure	LINSKIAN THE	N
5.4.2	Clearances	., , , , , , , , , , , , , , , , , , ,	N
5.4.2.2	Determining clearance using peak working voltage	estin a Testin a Testin	a Testin
5.4.2.3	Determining clearance using required withstand voltage	Hirakian Hirakian Hirakian	N
~0.Te	a) a.c. mains transient voltage:	e hi og Teshi og og Teshi og	0 185th 1
Huaxia	b) d.c. mains transient voltage:	Huaxia Huaxia Huaxia	_ <
9	c) external circuit transient voltage:	enii. enii. enii	eni is
er ens:	d) transient voltage determined by measurement	e	9 ⁷⁸⁵
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Ping **** Hilabas Hilabas	N W
5.4.2.5	Multiplication factors for clearances and test voltages	e waxiang Teom waxiang Teom	S N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 11 of 50



Clause	Requirement	Remark	Result
Hookis	Howards Howards Howards	Hraye Hray	No.
5.4.3	Creepage distances	in ⁹ sin ⁹	N
5.4.3.1	General	Mang Mang	of O N
5.4.3.3	Material Group	Hos Hos Hos	- 4
5.4.4	Solid insulation	sing testing	√es N
5.4.4.2	Minimum distance through insulation	maxiane maxiane	N N
5.4.4.3	Insulation compound forming solid insulation		N
5.4.4.4	Solid insulation in semiconductor devices	Testins Testins	√es"N
5.4.4.5	Cemented joints	Huaxiaha Huaxiaha	N ,
5.4.4.6	Thin sheetmaterial	200.	N
5.4.4.6.1	General requirements	.00 Teshi	78 ⁵¹ N
5.4.4.6.2	Separable thin sheet material	Hinaxia, Hinaxia, Hinaxi	N N
<u>0</u>	Number of layers (pcs)	enis enis enis	N
5.4.4.6.3	Non-separable thin sheet material	iang tes" iang tes"	aro Test N
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	ing ing ing Hassa Hassa	N 4
5.4.4.6.5	Mandrel test		N ^{est} N
5.4.4.7	Solid insulation in wound components	Hinaxia Hinaxia Hinaxi	N A
5.4.4.9	Solid insulation at frequencies >30 kHz:	enija enija enija	N
5.4.5	Antenna terminal insulation	in the energy of the contract	aro ⁷⁶³ N
5.4.5.1	General	Hinge Hinge Hinge	N 🗟
5.4.5.2	Voltage surge test	enies enies enies	N
axiang 1°	Insulation resistance (MΩ)	ensigned to a standard to the	^{SU} O
5.4.6	Insulation of internal wire as part of supplementary safeguard:	Han Han Han	N H
5.4.7	Tests for semiconductor components and for cemented joints	Huakiang la Huakiang la Huaki	^M N
5.4.8	Humidity conditioning	enip enip enip	, N
iang Te	Relative humidity(%)	iang tea.	³¹ 0 103
HUSK	Temperature (°C)	Hinse Hinse	\
9	Duration (h)	sin9 sin9 sin9	resi <u>in9</u>
5.4.9	Electric strength test	Mana Manale	at a N
5.4.9.1	Test procedure for a solid insulation type test	Hips. Hips. Hips.	N
5.4.9.2	Test procedure for routine tests	ting testing testing	₹ S ^N N
5.4.10	Protection against transient voltages between external circuit	Hnaxigua, Hnaxigua, Hnaxi	N
5.4.10.1	Parts and circuits separated from external circuits	ling Testing Testing	₹ S N
5.4.10.2	Test methods	izane ' ensistem '	N ,
5.4.10.2.1	General	110. 110. 110.	Ŋ
5.4.10.2.2	Impulse test:	diving Lesting	16811N
5.4.10.2.3	Steady-state test	HINDAISURA HINDAINA THIRDAINA	N
5.4.11	Insulation between external circuits and earthed circuitry	ing Testing Testing	N
5.4.11.1	Exceptions to separation between external circuits and earth	Hilaxiaua Hilaxiaua, Hilaxi	N
5.4.11.2 <	Requirements	sing testing	√e st N
	Rated operating voltage U _{op} (V)	ens. 'ens.	9,

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 12 of 50



19	EN IEC 62368-	ethis Leghis	Teefins
Clause	Requirement	Remark	Result
(0)	Nominal voltage Upeak (V)	eniis eniis enii	<u>Onija</u>
-viang T	Max increase due to variation U _{Sp}	viang tes viang tes	^{31,} 3
4100	Max increase due to ageing ΔU_{Sa}	41181, 41181, 41181,	_
0	Uop= Upeak + ΔUsp + ΔUsa	This tealing	Testing
	oop- opeak · Aosp · Aosa	Vegus Posiksus Posiksus	⁹⁰ 0 ,
5.5	Components as safeguards	200 000	N.
5.5.1	General	0 162m2	N
5.5.2	Capacitors and RC units	Hriagians Hriagians Hriagi	N
5.5.2.1	General requirement	eniis eniis eniis	N
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	Huaxiang Tes Huaxiang Tes Huaxi	ar o Tes N
5.5.3	Transformers	enis enis	N
5.5.4	Optocouplers	is Police in the second	ars Tes N
5.5.5	Relays	Hasy Hasy	N 🔻
5.5.6	Resistors	enite enite enit	N
5.5.7	SPD's	wiang To wiang To	ar of N
5.5.7.1	Use of an SPD connected to reliable earthing	Hria, Hria, Hria,	N 🕙
5.5.7.2	Use of an SPD between mains and protective earth	eing resting resting	Zes N
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	Hnaxiaud , Hnaxiaud , Hnaxi	% N
5.6	Protective conductor	enites enites enits	, siN
5.6.2	Requirement for protective conductors	Pasis Pasis	ar ^o N
5.6.2.1	General requirements	Hon Hon Hon	N
5.6.2.2	Colour of insulation	ing Testing	Test N
5.6.3	Requirement for protective earthing conductors	augiany augiany	N N
2/ .	Protective earthing conductor size (mm ²)	200	
5.6.4	Requirement for protective bonding conductors	and testing	a Testin
5.6.4.1	Protective bonding conductors	Hnayar.	N
	Protective bonding conductor size (mm ²)	eniis eniis eniis	e lino
-iang T	Protective current rating (A):	"isua Je" "isua Je"	3119 Tes
5.6.4.3	Current limiting and overcurrent protective devices	Hins, Hins, Hins,	N 🖓
5.6.5	Terminals for protective conductors	sing Tesing	Z STN
5.6.5.1	Requirement	irei Peneirei	su _{o ,} N
	Conductor size (mm ²), nominal threaddiameter (mm).	iug Lesiug Lesiug	N M
5.6.5.2	Corrosion	waxiang ' waxiang ' waxi	N
5.6.6	Resistance of the protective system		N
5.6.6.1	Requirements	Testines Testines	√e st N
5.6.6.2	Test Method Resistance (Ω)	Hinaxiana Hinaxiana Hinaxi	N
5.6.7	Reliable earthing	Das Das Das	N
5.7	Prospective touch voltage, touch current and protective conductor current	uusiang Tesii uusiisne Tesiisuu inee	N N
5.7.2	Measuring devices and networks	Dr. Por Por	N
5.7.2.1	Measurement of touch current	an Tesman	Tes N
5.7.2.2	Measurement of prospective touch voltage	Maur. Juakani	N u

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 13 of 50



	EN IEC 62368-	1 _{ing}	
Clause	Requirement	Remark	Result
4092	Hose Hose Hose Hose	Hoan Hoan Hoan	Ho
5.7.3	Equipment set-up, supply connections and earth connections	eniza p _{ones} eniza pones enizados en	o Test N
Hnsv.	System of interconnected equipment (separate connections/single connection)	iud "iud "iud Hnsi, Hnsi, Hnsi,	— Hu
Huaxiang Te	Multiple connections to mains (one connection at a time/simultaneous connections):	Huaxiang Tes Huaxiang Tes	9 ⁷⁸³ —
5.7.4	Earthed conductive accessible parts:	enis enis enis	N
5.7.5	Protective conductor current	no. 105 con 10	o ^{re} N
HUBXIC	Supply Voltage (V)	Hnaye Hnayes Hnayes	— HU
10	Measured current (mA)	enija enija enija	Daile
vish0 Te	Instructional Safeguard:	viano i engin	N N
5.7.6	Prospective touch voltage and touch current due to external circuits	iug ^{eiu} g ^{eiu} g	N Hu
5.7.6.1	Touch current from coaxial cables	neir Paeir Paeir	o N
5.7.6.2	Prospective touch voltage and touch current from external circuits	ing ting ting	N HU
5.7.7	Summation of touch currents from external circuits	ish engine	o N
Hns.	a) Equipment with earthed external circuits Measured current (mA)	ing ting ting	N Hu
Huaxiang Te	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	Huaxiang Tea Huaxiang Tea	o Test N

6 Maxians	ELECTRICALLY- CAUSED FIRE	Huaxian Huaxian	P .,\\?
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and powersource circuits.	g Testing Hus
6.2.2.1	General	See the following details.	∘ P
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	P Hus
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	g Testi P)
6.2.2.4	PS1	(See appended table 6.2.2)	P Hus
6.2.2.5	PS2	(See appended table 6.2.2)	P
6.2.2.6	PS3	ayang ' ayang ' ayar	^S N
6.2.3	Classification of potential ignition sources	Hos Hos	N Agos
6.2.3.1	Arcing PIS	ing resting	√es ⁽¹ N)
6.2.3.2	Resistive PIS	No PIS	Р 🦠
6.3	Safeguards against fire under normal operating and abnormal operating conditions	ing Lesing Lesing	P he
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)	9 P Hus
6.3.1 (b)	Combustible materials outside fire enclosure	No such materials used.	^S N
6.4	Safeguards against fire under single fault conditions	Hos. Hos. Hos	P
6.4.1	Safeguard Method	Method by control fire spread.	Test P
6.4.2	Reduction of the likelihood of ignition under single	akieng " akieng " akieng	N .

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 14 of 50



/0	EN IEC 62368-	enits enits enits	enita
Clause	Requirement	Remark	Result
400	for the same distance in DOA singuists	Han Han	141
0.4.0	fault conditions in PS1 circuits	ling testing testing	7esting
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Hnavigue Hnavigue Hnavigu	∂, N
6.4.3.1	General	enite enite	N
6.4.3.2	Supplementary Safeguards	viang Tensiv.	P
ia His	Special conditions if conductors on printed boards are opened or peeled	No such case happened.	N H
6.4.3.3	Single Fault Conditions	no: engless	S [™] N
HUBAG	Special conditions for temperature limited by fuse	HIGHE HIGHE	N
6.4.4	Control of fire spread in PS1 circuits	eniis eniis eni	a P
6.4.5	Control of fire spread in PS2 circuits	isi est ensi	Р
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	P H
- 418 ^{3/18} 10	a water commenced to the commenced to th	PCB: V-0	9
6.4.6	Control of fire spread in PS3 circuit	42 42	N M
6.4.7	Separation of combustible materials from a PIS	ins constins	N N
6.4.7.1	General ::	Hrayian Hrayian	N
6.4.7.2	Separation by distance	200	N
6.4.7.3	Separation by a fire barrier	Unio a Testino a Testino	√ e st N°
6.4.8	Fire enclosures and fire barriers	HISKISH HISKISHS	N
6.4.8.1	Fire enclosure and fire barrier material properties	, , , , , , , , , , , , , , , , , , , ,	N
6.4.8.2.1	Requirements for a fire barrier	No suchconstruction.	TesuN
6.4.8.2.2	Requirements for a fire enclosure	No suchconstruction.	N
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	ing Testing Testing	N Testing
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings.	N
6.4.8.3.2	Fire barrier dimensions	No barrier used.	N
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm):	on Teshino	185WN
Huaxians	Needle Flame test	Hnaxian, Hnaxian,	N
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	ing Testing	N
Huaxians	Flammability tests for the bottom of a fire enclosure	Hoaven Hoaven	N
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	axerg Testing	o Cestini
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	ing tesing to the	N M
6.5	Internal and external wiring	isia Pasika Pasika	N
6.5.1	Requirements	Ho. Ho.	N
6.5.2	Cross-sectional area (mm2)	ing ofesting ofesting	o Testing
6.5.3	Requirements for interconnection to building wiring	No such interconnection to building wiring.	N 💉
6.6	Safeguards against fire due to connection to additional equipment	Luaxiang Tesima	o ^{Testing}
9	External port limited to PS2 or complies with Clause Q.1	See appended table Annex Q.1.	P

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 15 of 50



20	enija enija	EN IEC 62368-1	e _{tiin} 9	e _{tin} 9
Clause	Requirement	Remark	a Tea	Result

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		9 P
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N HUE
7.3	Ozone exposure	No ozone production within the equipment.	o ^{Teo} N Hue
7.4	Use of personal safeguards (PPE)	No such consideration.	N
:ang 78	Personal safeguards and instructions	See above.	9 ⁷⁸⁵ —
7.5	Use of instructional safeguards and instructions	No chemical-caused injuries, the instruction safeguard was not required.	N Hus a Testing
Hriaxian	Instructional safeguard (ISO 7010)	(See Annex F)	- 4/1/s
7.6	Batteries:	Complied with Annex M	Р

8	MECHANICALLY-CAUSED INJURY	, , , , , , , , , , , , , , , , , , , ,	P
8.1	General (1997)	See the following details.	105th P
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1	P HUS
	" " " " " " " " " " " " " " " " " " "	Equipment mass < 7 kg, classified as MS1	9 (82m)
8.3	Safeguards against mechanical energy sources	MS1	N
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	TES P
8.4.1	Safeguards	See above.	√es N
8.5	Safeguards against moving parts	nayiang ' ensiyang '	N
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N
8.5.2	Instructional Safeguard::	See above.	9 ' _
8.5.4	Special categories of equipment comprising moving parts	ing tesing tesing	N
8.5.4.1	Large data storage equipment	nakang ' enakang '	^O N
8.5.4.2	Equipment having electromechanical device for destruction of media	ing seing seing	N
8.5.4.2.1	Safeguards and Safety Interlocks	akiang makang	³ N
8.5.4.2.2	Instructional safeguards against moving parts	Hoe Hoe Hoe	N How
	Instructional Safeguard	sing na testing and testing	o Testing
8.5.4.2.3	Disconnection from the supply	Hriagian Hriagian Hriagian	N Aus
8.5.4.2.4	Probe type and force (N)	eniis eniis eniis	N
8.5.5	High PressureLamps	ian ^{o Tes}	o ^é N
8.5.5.1	Energy Source Classification	Hnax, Hnax, Hnax,	N Ans
8.5.5.2	High Pressure Lamp Explosion Test:	enites enites enites	N
8.6	Stability	< 7 kg	o N
8.6.1	Product classification	Hila, Hila, Hila	N Hus
19	Instructional Safeguard:	sing aresing	o Testing
8.6.2	Static stability	Jugians Jugians	N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 16 of 50



19	EN IEC 62368-	-1 _{ing} e _{nits} e _{nits}	e _{lin} g
Clause	Requirement	Remark	Result
8.6.2.2	Static stabilitytest	and ching ching	N
axiang T	Applied Force	aken grang ta	9
8.6.2.3	Downward ForceTest	Hon Hon Hon	N
8.6.3	Relocation stability test	of Cesting	o Testing
HASKISH	Unit configuration during 10° tilt	Hinaxies Hinaxies Hinaxies	H
8.6.4	Glass slide test	ing seing	N
8.6.5	Horizontal force test (Applied Force)	neige energy	N
V Store	Position of feet or movable parts	70	100
8.7	Equipment mounted to wall or ceiling	100 Testing 100 Testing	o Testing
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	Hasing Hasing Hasing	N A
8.7.2	Direction and applied force	3 Con 100 Con	o (es N
8.8	Handles strength	Hnaxis Hnaxis Hnaxis	N
3.8.1	Classification	enits enits en	N
3.8.2	Applied Force	iang 162	o ^{Te} N
3.9	Wheels or casters attachment requirements	Hinge Hinge Hinge	N
8.9.1	Classification	eno sino sino	N
8.9.2	Applied force:	yiang to yiang to	9
8.10	Carts, stands and similar carriers	No such device provided within the EUT.	N H
8.10.1	General	naive Parajana Ja	N
8.10.2	Marking and instructions	Hos. Hos. Hos.	N
	Instructional Safeguard:	ening Testing	resting
8.10.3	Cart, stand or carrier loading test and compliance		N
d No	Applied force:	40 40	O
3.10.4	Cart, stand or carrier impact test	Test Page 1	o ^{Too} N
8.10.5	Mechanical stability	Hnaxie Hnaxie Hnaxie	N
	Applied horizontal force (N)	enies enies en	
8.10.6	Thermoplastic temperature stability (°C)	nakang enakang	N
8.11	Mounting means for rack mounted equipment	700	N
8.11.1	General	765/11/2	√esiiN
3.11.2	Product Classification	17/19/19/19/19	N 🗸
3.11.3	Mechanical strength test, variable N	Pos Pos	N
8.11.4	Mechanical strength test 250N, including end stops	and testing	o Tes N
8.12	Telescoping or rod antennas	No such device provided within the EUT.	N A
~0~	Button/Ball diameter (mm)	See above.	97estil

9	THERMAL BURNINJURY	1785 :ang 7855 :ang 7855	P
9.2	Thermal energy source classifications	All accessible surfaces are classified as TS1, see appended table 5.4.1.4, 6.3.2, 9.0, B.2.6	P Hua
9.3	Safeguard against thermal energy sources	See above.	P HURY

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 17 of 50



EN IEC 62368-1				
Clause	Requirement	Remark	Result	
9.4	Requirements for safeguards	ing cating cating	Р	
9.4.1	Equipmentsafeguard	Enclosure temperatures do not exceed TS1 limits.	P	
9.4.2	Instructional safeguard:	enis enis en	. N	

10	RADIATION	no: Cot eno:	o [™] P
10.2	Radiation energy source classification	RS1: LED light	P HU
10.2.1	General classification	enija enija enij	N
10.3	Protection against laser radiation	nsiv. Prairie Prairie	S N
Hus	Laser radiation that exists equipment:	Hns. Hns. Hns.	Hui
19 17	Normal, abnormal, single-fault	Testins	√estiN
Hriaxiano	Instructional safeguard	Hrighton Hrighton	HUE
.9	Tool	ing Testing Testing	Testing
10.4	Protection against visible, infrared, and UV radiation	Julakano Julakano	P
10.4.1	General	00.	P
10.4.1.a)	RS3 for Ordinary and instructed persons:	od Lesines	a Testing
10.4.1.b)	RS3 accessible to a skilled person:	HABAGE HABAGE	N W
19 20 Te	Personal safeguard (PPE) instructional safeguard	ing a Testing	n Testing
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	Hnaxier Hnaxier	N W
10.4.1.d)	Normal, abnormal, single-fault conditions:		N
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Luaviang Tess Luaviang Tess	o ^{Tes} N
10.4.1.f)	UV attenuation		N
10.4.1.g)	Materials resistant to degradation UV	91650	o ^{Tess} N
10.4.1.h)	Enclosure containment of optical radiation:	History History	N HUS
10.4.1.i)	Exempt Group under normal operating conditions	Exempt Group	o TestiP
10.4.2	Instructional safeguard:	Huaxia Huaxia Huaxia	N And
10.5	Protection against x-radiation	No such x-radiation generated from the equipment.	N Testin
10.5.1	X- radiation energy source that exists equipment:	Hasker Hasker	N w
' Ø	Normal, abnormal, single fault conditions	enii enii eni	N
:2097	Equipment safeguards	100 Test 100 Test	√°°N
HUBXIC	Instructional safeguard for skilled person	Hnaxee Hnaxee	N HUE
10.5.3	Most unfavourable supply voltage to give maximum radiation:	ing Testing Testing	o Testing
HUBXIC	Abnormal and single-fault condition	Huaxia Huaxia	N Ang
(9	Maximum radiation (pA/kg)	enis enis	N
10.6	Protection against acoustic energy sources	No such consideration for the purpose of personal music players.	o N Hur
10.6.1	General	enir, enir, eni	N
10.6.2	Classification	inci.	o ^{res} N
Huax	Acoustic output, dB(A)	Hriston Hriston Hriston	N HUS

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 18 of 50



	EN IEC 62368-	1 _{ing} _{sing}	
Clause	Requirement	Remark	Result
Hos	Hos. Hos. Hos.	Hon Hon Hon	Ho
	Output voltage, unweighted r.m.s.	ening saing	, siN
10.6.4	Protection of persons	wiang ' wiang '	○ N
Hoo	Instructional safeguards	Hos Hos Hos	N A
ng _{viang} T	Equipment safeguard prevent ordinary person to RS2	ing resing resing want testing	g Testing
Hos.	Means to actively inform user of increase sound pressure	iuo iuo siuo	eting Hu
Huaxiang T	Equipment safeguard prevent ordinary person to RS2	Huaxiang to Huaxiang to Huaxian	9 Jan
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	ing contesting contesting	N (Section
10.6.5.1	Corded passive listening devices with analog input	Hinaxie, Hinaxie, Hinaxie,	N W
0, 17 _{00s:}	Input voltage with 94 dB(A) <i>LAeq</i> acoustic pressure output:	enisa Tesina	g Testing
10.6.5.2	Corded listening devices with digital input	Hnaye Hnayer Hnayer	N Au
19	Maximum dB(A)	ing Testing Testing	resting
10.6.5.3	Cordless listening device	waxiang " waxiang " waxian	N
10	MaximumdB(A)	iug ^{siug} sing	ening Paris

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions	See the following details.	P ,,,,,,,
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
Huaxians	Audio Amplifiers and equipment with audio amplifiers	Test according to requirements of annex E	P HUS
B.2.3	Supply voltage and tolerances	sing Testing	₹65 ¹¹ N
B.2.5	Inputtest	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements:	(See appended table B.3&B.4)	Te ^{sti} P
B.3.2	Covering of ventilation openings	No ventilation openings provided.	N AND
B.3.3	D.C. mains polarity test	ens ens ens	N
B.3.4	Setting of voltage selector:	No setting of voltage selector within the EUT	N Ang
B.3.5	Maximum load at output terminals	No such terminals.	N
B.3.6	Reverse battery polarity	Impossible reverse polarity by inherent design.	19 ⁷⁶⁵¹ P
B.3.7	Abnormal operating conditions as specified in Clause E.2.	ing Testing Testing	P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	P
B.4	Simulated single fault conditions	sting Testing	105 P
B.4.2	Temperature controlling device open or short-circuited	Hinasigues Hinasigues Hinasigues	N HINS
B.4.3	Motor tests	ting Testing	Tes N
B.4.3.1	Motor blocked or rotor locked increasing the internal	axiang axiang axiang	N .a

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 19 of 50



	EN IEC 62368-	-1 _{m9} _{sin9}	
Clause	Requirement	Remark	Result
Hasia	Hine, Hine, Hine, Hine,	Hos., Hos., Hos.,	1-71
(9	ambient temperature	e ing	- sting
B.4.4	Short circuit of functional insulation	See the following details.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3 &B.4)	PΗ
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3 &B.4)	a Testi P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N H
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	Huakiang Tee Huakiang Tee) N
B.4.6	Short circuit or disconnect of passive components	(See appended table B.3 &B.4)	R
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N H
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	(See appended table B.3&B.4)	Р
B.4.9	Battery charging under single fault conditions:	Complied with the annex M	√esti P

С	UV RADIATION	esting esting	N
C.1	Protection of materials in equipment from UV radiation	No such UV generated from the equipment.	N HI
C.1.2	Requirements	in ⁹ sin ⁹	N
C.1.3	Test method	wiang hang have	N (
C.2	UV light conditioning test	Hos Hos Hos	N
C.2.1	Test apparatus	e ing Testing	N N
C.2.2	Mounting of test samples	axiang	N .
C.2.3	Carbon-arc light-exposure apparatus	No.	N
C.2.4	Xenon-arc light exposure apparatus	estina Testina	√estiN

D	TEST GENERATORS		√ es [©] N
D.1	Impulse test generators	No such consideration.	N Pagiar
D.2	Antenna interface test generator	Ho. Ho.	N
D.3	Electronic pulse generator	Testing Testing	√ e ^{sti} N

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		P
E.1	Audio amplifier normal operating conditions	ensize Parising	ar ⁹ P
Hoe	Audio signal voltage (V):	0.24	40
:2 <u>1</u> 0	Rated load impedance (Ω)	4Ω	ang Testing
E.2	Audio amplifier abnormal operating conditions	(See appended table B.3 &B.4)	P

F Huar	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		
F.1	General requirements	See the following details.	P
waxiang T	Instructions – Language	English	3 10

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 20 of 50



			X 5:0//
Clause	Requirement	Remark	Result
F.2	Letter symbols and graphical symbols	See the following details.	P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	9 P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	g ^{To} P HI
F.3	Equipment markings	Juanani Juanani	P
F.3.1	Equipment marking locations	Equipment marking is located on the exterior surface and is easily visible.	P. Testille
F.3.2	Equipment identification markings	See the following details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate.	n Testing
F.3.2.2	Model identification:	See copy of marking plate.	N H
F.3.3	Equipment rating markings	See the following details.	resting
F.3.3.1	Equipment with direct connection to mains	Sylane Supplies	N
F.3.3.2	Equipment without direct connection to mains	See above.	P
F.3.3.3	Nature of supply voltage	of Lesting at Lesting	d Lesting
F.3.3.4	Rated voltage:	5V	H
F.3.3.4	Rated frequency:	ord resind at testind	o Testing
F.3.3.6	Rated current or rated power:	Hosigue Hosigue	H
F.3.3.7	Equipment with multiple supply connections	Only one supply connection.	√e ^N N
F.3.4	Voltage setting device	No such device on the equipment.	N
F.3.5	Terminals and operating devices	See below	N
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment.	o Testing
F.3.5.2	Switch position identification marking:	No such switch on the equipment.	N
F.3.5.3	Replacement fuse identification and rating markings	wieng Testinal Testinal West	o Testinu N
F.3.5.4	Replacement battery identification marking:	His. His. His.	N
F.3.5.5	Terminal marking location	Teshna Teshna	√ 05/100
F.3.6	Equipment markings related to equipment classification	Class III	N
F.3.6.1	Class I Equipment	ennes testines	< 65 N
F.3.6.1.1	Protective earthing conductor terminal	unaxiano ' enakam 'axia	N
F.3.6.1.2	Neutral conductor terminal	70 70	N
F.3.6.1.3	Protective bonding conductor terminals	Testing Testing	√e ⁵¹ N
F.3.6.2	Class II equipment (IEC60417-5172)	HIBYSELE HIBYSELES	N
F.3.6.2.1	Class II equipment with or without functional earth	Doub Port Port	N
F.3.6.2.2	Class II equipment with functional earth terminal marking	axer	o N
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	Testing
~Q //	External power supply output marking	II AU.	N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 21 of 50



	EN IEC 62368-1			
Clause	Requirement	Remark	Result	
Hos	Hoe Hoe Hoe Hoe	Hoe Hoe Hoe	H	
F.3.9	Durability, legibility and permanence of marking	See the following details.	P	
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test, 15 sec. for water and 15 sec. for petroleum spirit. After each test, the marking remained legible.	Р	
F.4	Instructions	remained legible.	Р	
	a) Equipment for use in locations where children not likely to be present - marking		N	
	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	P	
	c) Equipment intended to be fastened in place		N	
	d) Equipment intended for use only in restricted access area		N	
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		. N	
	f) Protective earthing employed as safeguard		N	
	g) Protective earthing conductor current exceeding ES 2 limits	30 a 10 a	- N	
	h) Symbols used on equipment		P	
	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N	
	j) Replaceable components or modules providing safeguard function		N	
5	Instructional safeguards		Р	
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		P	

G	COMPONENTS		Р
G.1	Switches		N
G.1.1	General requirements	No such switch as disconnect devices provided within the equipment.	√e ^S N
G.1.2	Ratings, endurance, spacing, maximum load		N
G.2	Relays		N
G.2.1	General requirements	No such relay provided within the equipment.	N
G.2.2	Overload test		N
G.2.3	Relay controlling connectors supply power		N
G.2.4	Mains relay, modified as stated in G.2		N
G.3	Protection Devices		N
G.3.1	Thermal cut-offs	No thermal cut-off provided within the equipment.	N Testing
G.3.1.1a)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	See above.) N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 22 of 50



19	EN IEC 62368-	ain ⁹ stin ⁹ satin ⁹	- seting
Clause	Requirement	Remark	Result
&b)	Poi: Poi: Poi: Poi	Pn: Pn: Pn:	ri enia
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	See above.	N H
G.3.1.2	Thermal cut-off connections maintained and secure	See above.	N
G.3.2	Thermal links	len Pagin	N
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link provided within the equipment.	N ^A
G.3.2.1b)	Thermal links tested as part of the equipment	See above.	N
HUSKI	Aging hours (H)	See above.	H
9	Single Fault Condition:	See above.	eting.
-iang Te	Test Voltage (V) and Insulation Resistance (Ω)	See above.	3
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N
G.3.4	Overcurrent protection devices	xiang) xiang (xiang	N
G.3.5	Safeguards components not mentioned in G.3.1 to G	5.3.5	N
G.3.5.1	Non-resettable devices suitably rated and marking provided	No such component.	N N
G.3.5.2	Single faults conditions	Hos. Hos. Hos.	N
G.4	Connectors	siin ^g Testin ^g	z esi N
G.4.1	Spacings	No such connector within the EUT	N
G.4.2	Mains connector configuration:	11110 11110	N
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	one Testing Testing Testing	N
G.5	Wound Components	T the thin	Ŋ
G.5.1	Wire insulation in wound components	No such component.	.≺° [™] N
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	HIBYRITS HUBYRITS HUBYRI	N
G.5.1.2 b)	Construction subject to routine testing	eling Testing	< °N
G.5.2	Endurance test on wound components	waxiana waxiana waxian	N
G.5.2.1	General test requirements		N
G.5.2.2	Heat run test	Testing Testing	√e ^s N
LUZXIZIOU	Time(s):	They are They are They are	— .x
Q	Temperature (°C)	, , , , , , , , , , , , , , , , , , ,	
G.5.2.3	Wound Components supplied by mains	10 Teshis 01 Teshis	N
G.5.3	Transformers	Huaxian Huaxian	N X
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/orIEC62368-1)	ing of testing	N
Hnaxiaira	Position	Hnayan Hnayan Hnaya	14
er engre	Method of protection:	ing Lesing ind Lesing	g Testing
G.5.3.2	Insulation	Hnaxii Hnaxii Hnaxii	N 🔻
9	Protection from displacement of windings:	eni _{la} eni _{la} eni	-cim9
G.5.3.3	Overload test	Page Page Page Page Page Page Page Page	S N
G.5.3.3.1	Test conditions	Hose Hose Hose	N
G.5.3.3.2	Winding Temperatures testing in the unit	in ⁹ stin ⁹	N
G.5.3.3.3	Winding Temperatures - Alternative test method	iai ensi ensi) N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 23 of 50



Clause	Deguirement	Demarks	Popult
Clause	Requirement	Remark	Result
G.5.4	Motors	enites enites	N
G.5.4.1	General requirements	viang Time viang Time	ar N
Huan	Position	Hingy Hingy Hingy	_ ~
G.5.4.2	Test conditions	sing resing	Z S P
G.5.4.3	Running overload test	eneixe Peneixe	N N
G.5.4.4	Locked-rotor overload test	1110 1110	N
9 	Test duration (days):	105 105 105 105 105 105 105 105 105 105	785tm9
G.5.4.5	Running overload test for d.c. motors in secondary circuits	Hraxiana Hraxi	N
G.5.4.5.2	Tested in the unit	Teshing Teshing	₹6 ^{SU} N
Maxigue	Electric strength test (V)	Liuaxians Liuaxians	- J
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	ing Testing Testing	N
Hugyighia	Electric strength test (V)	Huaxiane Huaxiane	- L
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	ing Testing Testing	N
G.5.4.6.2	Tested in the unit	Huaxiana Huaxiana	N
0)	Maximum Temperature	200 200	N
-2016	Electric strength test (V)	-00 Legin	7651N
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	History History History	N
2016	Electric strength test (V)	said no Testino	A CESTIN
G.5.4.7	Motors with capacitors	Hinskip, Hinskip, Hinskip	N
G.5.4.8	Three-phase motors		N
G.5.4.9	Series motors	16°	N N
Hnax.	Operating voltage:	Hnax, Hnax, Hnax	_ \
G.6	Wire Insulation	enirs enirs enirs	N
G.6.1	General	Paris Paris	ar ^o N
G.6.2	Solvent-based enamel wiring insulation	Hine Hine Hine	N Y
G.7	Mains supply cords	stin ⁹ Testin ⁹ Testin ⁹	N N
G.7.1	General requirements	unexiano unexiano	ar ^o N
V.,	Type	4/2	
	Rated current(A)	shing resting resting	785till 19
	Cross-sectional area (mm ²), (AWG)	Huaxiana Huaxiana	21 - H
G.7.2	Compliance and test method	ena ena ena	N
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Huaxiang Tesu Huaxiang Tesu	N STORY
G.7.3.2	Cord strain relief	ens ens	N
G.7.3.2.1	Requirements		N ^{est} N
Hngxic.	Strain relief test force (N)	Hinaxie. Hinaxie. Hinaxie.	_ H
G.7.3.2.2	Strain relief mechanism failure	eniis eniis eniis	ening
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	is the second se	20 9 Tes -
G.7.3.2.4	Strain relief comprised of polymeric material	Hosy Hosy	N
G.7.4	Cord Entry	enies enies	N
G.7.5	Non-detachable cord bend protection	i ensi ensi	ar O N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 24 of 50



01	Deminostrat (160)	Daniel 16	D14
Clause	Requirement	Remark	Result
G.7.5.1	Requirements	enis enis	N
G.7.5.2	Mass (g) ::	: egr	219 (651.
Hagy.	Diameter (m):	Hray, Hray, Hray	P
9	Temperature (°C)	ening cating	ing ing
G.7.6	Supply wiring space	viang Tes viang Tes	N .
G.7.6.2	Stranded wire	H1181, H1181, H1181,	N
G.7.6.2.1	Test with 8 mm strand	testing testing	765/N
G.8	Varistors	As	N
G.8.1	General requirements	No VDRs.	N
G.8.2	Safeguard against shock	THE VERTOR	o Lesing
G.8.3	Safeguard against fire	Anerical analysis and analysis analysis and analysis analysis and analysis	N V
G.8.3.2	Varistor overload test:		N
G.8.3.3	Temporary overvoltage	(See appended table B.3)	N N
G.9	Integrated Circuit (IC) Current Limiters	(Gee appended table B.0)	N
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N Test N
G.9.1 b)	Limiters do not have manual operator or reset	Hnaxia Hnaxia	N
G.9.1 c)	Supply source does not exceed 250 VA	esting Testing Testing	Testing
G.9.1 d)	IC limiter output current (max. 5A)	Hnaxiaua, Hnaxiaua, Hnaxi	12(1 ⁽³⁾)
G.9.1 e)	Manufacturers' defined drift	esing testing testing	resting
G.9.2	Test Program 1	, inskiane i makiane i	ar ⁹ N
G.9.3	Test Program 2		Ŋ
G.9.4	Test Program 3	resims Testins	√e st N
G.10	Resistors	Huaxiana Huaxi	N
G.10.1	General requirements	Paris Paris Paris	N
G.10.2	Resistor test	of testing	N S
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Hinaxia Hinaxia Hinaxia Hinaxia	N
G.10.3.1	General requirements	enging lang lang	N .
G.10.3.2	Voltage surge test	H110. H110. H110.	N
G.10.3.3	Impulse test	162 100 162 100	1 (est N
G.11	Capacitor and RC units	· I waxiane	N .
G.11.1	General requirements		N
G.11.2	Conditioning of capacitors and RC units	estiny a restiny	N
G.11.3	Rules for selecting capacitors	Hriskian Hriskian Hrisk	N
G.12	Optocouplers	Para Para Para	N
Huaxiang T	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Huaxiang Team Huaxiang Teams Huaxi	N Y
-iang T	Type test voltage Vini:	isud Lesing Tesing 1951	arg Testines
Huaxi	Routine test voltage, Vini,b:	Hnss. Hnss. Hnss.	4
G.13	Printed boards	estinis Testinis	105 P
G.13.1	General requirements	See the following details.	P

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 25 of 50



EN IEC 62368-1					
Clause	Requirement	Remark	Result		
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and	g Testing P 1 ^{HU}		
G.13.3	Coated printed boards	No coated printed board provided within the equipment.	N _H		
G.13.4	Insulation between conductors on the same inner surface	ing Odelling Ostalo Lesing Ostalo	N		
10)	Compliance with cemented joint requirements (Specify construction):	liug sijug sijug	- esting		
G.13.5	Insulation between conductors on different surfaces	view de la company de la compa	N ا		
Huar	Distance throughinsulation:	Haza, Haza, Haza,	N		
(Ý) o.s.	Number of insulation layers (pcs)	ing seing	resting		
G.13.6	Tests on coated printed boards	Mana Mana Ma	N		
G.13.6.1	Sample preparation and preliminaryinspection	111,000 111,000	N		
G.13.6.2a)	Thermal conditioning	und central	N N		
G.13.6.2a)	Electric strength test	Viano V Consiy	N		
G.13.6.2c)	Abrasion resistance test	Hng, Hng, Hng,	N N		
G.13.6.26) G.14		ind sind sind	- cijūo		
	Coating on components terminals	(0 042)	N N		
G.14.1	Requirements	(See G.13)	N W		
G.15	Liquid filled components	in ⁹ 785 ⁱⁿ⁹ 785	N		
G.15.1	General requirements	neigh (Proeje (Proeje)	N N		
G.15.2	Requirements	Hoe Hoe	N 🚧		
G.15.3	Compliance and test methods	ing testing	N		
G.15.3.1	Hydrostatic pressure test	and the state of t) N		
G.15.3.2	Creep resistance test	Ho. Ho.	N M		
G.15.3.3	Tubing and fittings compatibility test	ing resting	, siN		
G.15.3.4	Vibration test	axian ⁹ gaing	^o N		
G.15.3.5	Thermal cycling test	Ho Ho	N		
G.15.3.6	Force test	ing Testing Testing	√es N		
G.15.4	Compliance	maxian9 maxian9	N ,		
G.16	IC including capacitor discharge function (ICX)	Ha Ha	N		
a) 785	Humidity treatment in accordance with sc5.4.8 – 120 hours	ins aviang testins aviang testins	N N		
b)	Impulse test using circuit 2 with Uc = to transient voltage	ing testing testing	N		
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	Hraviaua Hraviaua Hraviau	N HI		
C2)	Test voltage	ing Testing	Testing		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	The History Hoston Control History History	N		
D2)	Capacitance:	Huaxiana , Huaxiana , Huaxian	9 , _		
D3)	Resistance		,		

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 26 of 50



10	EN IEC 62368-	ain ⁹ sin ⁹	a seting
Clause	Requirement	Remark	Result
Hos	Hos. Hos. Hos.	Hos. Hos Hos	H
Ĥ	CRITERIA FOR TELEPHONE RINGING SIGNALS	enite Sting	N
H.1	General	ensity of the state of the stat) N
H.2	Method A	Hos Hos Hos	N A
H.3	Method B	sting Testing	√ e st N
H.3.1	Ringing signal	axiang '	N N
H.3.1.1	Frequency (Hz)	No No	
H.3.1.2	Voltage (V)	sails Testins	165tinia
H.3.1.3	Cadence; time (s) and voltage (V)	Hilaxian Hilaxian	- 1/1
H.3.1.4	Single fault current (mA):	ens ens ens	ėn;,
H.3.2	Tripping device and monitoring voltage		o ^{Test} N
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	Hasse Hasse Hasse	N W
H.3.2.2	Tripping device	100 (00)	o Test N
H.3.2.3	Monitoring voltage (V)	Hnayes Hnaxes Hnaxes	1/1/

J Huaxians	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION			
÷10	General requirements	N		

K	SAFETY INTERLOCKS		
K.1	General requirements	No safety interlock provided within the equipment.	Tes N
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N
K.3	Inadvertent change of operating mode		N
K.4	Interlock safeguard override	No No No	N
K.5	Fail-safe	sing Tesing	√e ⁵⁰ Ν
Luaxiang	Compliance	(See appended table B.4)	N N
K.6	Mechanically operated safety interlocks	, , , , , , , , , , , , , , , , , , , ,	N
K.6.1	Endurance requirement	of Testins	ດ 10 ^{≤™} Nັ
K.6.2	Compliance and Test method:	Huaxian Huaxian Huaxian	N _{HU}
K.7	Interlock circuit isolation	ens ens ens	N
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	Huakiang Tesu Huakiang Tesu Huakian	o TestiN
K.7.2	Overload test, Current (A)	one one one	N
K.7.3	Endurance test	- ng Testii	o TestiN
K.7.4	Electric strength test	(See appended table 5.4.11)	N Hus

L	DISCONNECT DEVICES	16211, 16211, 101 Lezn.	o ^{Test} N
L.1waxia	General requirements	Huaxies Huaxies Huaxies	N HUBY
L.2	Permanently connected equipment	enis enis	N
L.3	Parts that remain energized	10	o ^{√®™} N
L.4	Single phase equipment	Hnayer Hnayer Hnayer	N Hua
L.5	Three-phase equipment	eniis eniis eni	N
L.6	Switches as disconnect devices	ner en	N .
L.7	Plugs as disconnect devices	Has Has Has	N Husa

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 27 of 50



19	EN IEC 62368-	enits enits	- sing
Clause	Requirement	Remark	Result
L.8	Multiple power sources	ing tesing to sing	N
M	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	P
M.1	General requirements	eniis eniis enii	P
M.2	Safety of batteries and their cells	in Page	Р
M.2.1	Requirements	Hassy Hassy	Р
M.2.2	Compliance and test method (identify method):	in ⁹ sin ⁹	P
M.3	Protection circuits	oxiano (Viario)	Р
M.3.1	Requirements	Hay. Hay.	Р
M.3.2	Tests	ing resting resting	P
axian o '	- Overcharging of a rechargeable battery	(See appended table Annex M)	Р
19	- Unintentional charging of a non-rechargeable battery	ing testing testing	N
waxian9	- Reverse charging of a rechargeable battery	maxians maxians	N
7	- Excessive discharging rate for any battery	(See appended table Annex M)	Р
M.3.3	Compliance	No chemical leakage, no liquid spillage, no explosion, no emission fo flame or expulsion of molten metal	Test P
M.4	Additional safeguards for equipment containing secondary lithium battery	Hinaxiaua Hinaxiaua I.a. Hinaxiai	9 P
M.4.1	General	enis enis eni	P
M.4.2	Charging safeguards	Isin Pagi.	P
M.4.2.1	Charging operating limits	Hings, Hings, Hings,	P 🖑
M.4.2.2a)	Charging voltage, current and temperature:	(See appended table Annex M.4)	P
M.4.2.2 b)	Single faults in charging circuitry	(See appended table Annex M.4)	P
M.4.3	Fire Enclosure	Ho. Ho.	Р
M.4.4	Endurance of equipment containing a secondary lithium battery	une alang Teshine alang Teshine	o TestiP
M.4.4.2	Preparation	Hos. Hos.	Р
M.4.4.3	Drop and charge/discharge function tests	sing resing	Test P
axian9	Drop ward	ugyian ⁹	Р
40	Charge	And And	Р
19 10	Discharge	ins Testins	Test P
M.4.4.4	Charge-discharge cycle test	Jugyjang Jugyjang	P
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying	arestins arestins	N CENN
M.5.1	Requirement	HASAGA HASAGA	N
M.5.2	Compliance and Test Method (Test of P.2.3)	ens ens ens	N
M.6	Prevention of short circuits and protection from other effects of electric current	Huaxiang Testi	o ^{Tes} P
M.6.1	Short circuits	Paris Paris Paris	Р
M.6.1.1	General requirements	ng 7estin	o Testin
M.6.1.2	Test method to simulate an internal fault	Hnaxies Hnaxies Hnaxies	P
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	ing of testing	P.
M.6.2	Leakage current (mA):	0.01mA	P

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 28 of 50



	EN IEC 62368-	1 _{in0} , in0	
Clause	Requirement	Remark	Result
Hos	Hos Hos Hos	Hos Hos Hos	H
M.7	Risk of explosion from lead acid and NiCd batteries	ening enits enits	N
M.7.1	Ventilation preventing explosive gas concentration	akiang ' enakia) N
M.7.2	Compliance and test method	Hon Hon Hon	N
M.8	Protection against internal ignition from external spark sources of lead acid batteries	one avang Teshing avang Teshing	N est
M.8.1	General requirements	Hos Hos Hos	N
M.8.2	Test method	ing Testing Testing	N
M.8.2.1	General requirements	axiang to axiang the same of t	N
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):	Mo Mo Mo	
M.8.2.3	Correction factors	and testing	9785iii
M.8.2.4	Calculation of distance d (mm)	Hnaxies Hnaxies	— H
M.9	Preventing electrolyte spillage	ρ_{Oi} , ρ_{Oi} , ρ_{Oi}	N
M.9.1	Protection from electrolyte spillage	iong Testing Testing	o ^{≺®} N
M.9.2	Tray for preventing electrolyte spillage	Hnaver Hnaver Hnaver	N
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	une Luaxiang Testing Luaxiang Testing	o Testi P

N Waxiam	ELECTROCHEMICAL POTENTIALS			, maxiar,	° N
	Metal(s) used:	0	0	, 7 , 7	·~Q

0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	P
eriji e	Figures O.1 to O.20 of this Annex applied:	Considered.	17esting

P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		
P.1	General requirements	No openings	N Hus
P.2.2	Safeguards against entry of foreign object	in ⁹ sin ⁹ sin ⁹	, siN
wiang,	Location and Dimensions (mm)	yiang yiang yia	9'
P.2.3	Safeguard against the consequences of entry of foreign object	strug strug	N Pro
P.2.3.1	Safeguards against the entry of a foreign object	ware ware	N .
Hoe	Openings in transportable equipment	Hos Hos Hos	N Page
ng oxiang T	Transportable equipment with metalized plastic parts	esime Wang Tesime Wang Tesime	N S
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	esting testing the Home Home	N Plas
P.3	Safeguards against spillage of internal liquids	No such construction.	N Ans
P.3.1	General requirements	Paire Paire Paire	N
P.3.2	Determination of spillage consequences	varia programa) N
P.3.3	Spillage safeguards	Hing. Hing.	N Hus
P.3.4	Safeguards effectiveness	in ⁹ Tesin ⁹ Tesin ⁹	, N
P.4	Metallized coatings and adhesive securing parts	No such construction.	N N

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 29 of 50



	EN IEC 62368-	-1 _{ino}	
Clause	Requirement	Remark	Result
Hope	Hose Hose Hose Hose	Hos. Hos. Hos.	Hou
P.4.2 a)	Conditioning testing	sung saing	N
axiang '	Tc (°C)	ayang ayang aya	¹ ⁰ ⁰
Haza	Tr (°C)	How How How	- Ha.
19 . 1	Ta (°C)	is the testing	Testing
P.4.2 b)	Abrasion testing	siyanıaylani	N
P.4.2 c)	Mechanical strength testing:		N

Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	Lesting Lesting	TestiP
Q.1.1 a)	Inherently limited output	maxians maxians maxi	N
Q.1.1 b)	Impedance limited output		Ŋ
waxiang T	- Regulating network limited output under normal operating and simulated single fault condition	See appended table Annex Q.1	20 TES P
Q.1.1 c)	Overcurrent protective device limited output		N
Q.1.1 d)	IC current limiter complying with G.9	Testing Testing	√ (S ¹ N
Q.1.2	Compliance and test method	Huaxians Huaxians Huaxi	N JUS
Q.2	Test for external circuits – paired conductor cable	See appended table Annex Q.1	Р
707	Maximum output current (A)	of testing	0785till
HARXISH	Current limiting method	Hnaxisma Hnaxisma	Hns.

R HURN	LIMITED SHORT CIRCUIT TEST	Hnay, Hnay, Hnay,	N Ans
R.1	General requirements	No such consideration.	N
R.2	Determination of the overcurrent protective device and circuit	Huaxiang to Huaxiang to Huaxian) N
R.3	Test method Supply voltage (V) and short-circuit current (A)).	ening Testing Police	o TestiN

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	Still S Testills	165"N
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	The fire enclosure used material was approved.	N HUS
waxiang	Samples, material:	""Bixiang" ""Bixiang" ""Bixia	— '''9, 10,
-0	Wall thickness (mm):		
~1	Conditioning (°C)	of Testing	0785tms
Husyland	Test flame according to IEC 60695-11-5 with conditions as set out	Hna _{Marra} Hna _{Marra} Hna _{Mar}	N Ang
7	- Material not consumed completely	a Testilis and Testilis	√estN
Huaxians	- Material extinguishes within 30s	Hriaxiaisa Hriaxiaisa Hriaxia	N AND
19	- No burning of layer or wrapping tissue	Pais Pais Pais	N
S.2	Flammability test for fire enclosure and fire barrier integrity	uuaxiang Tesu uuaxiang Tesu uuaxiar	o Testin
20	Samples, material:	Price Price Price	00
· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Wall thickness (mm):	-09 Testin	0 Testill
HUBXIG	Conditioning (°C):	Hinaxia Hinaxia	- Hug

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 30 of 50



	EN IEC 62368-	1 _{mo} _{sin} o _{sin} o	
Clause	Requirement	Remark	Result
Hos	Hos Hos Hos	Hos Hos Hos	Ho
	Test flame according to IEC 60695-11-5 with conditions as set out	ing enits on the state of the s	N STESTING
Hugy.	Test specimen does not show any additional hole	Hingy Hingy Hingy	N An
S.3	Flammability test for the bottom of a fire enclosure	in ⁹ stin ⁹	N
axiang	Samples, material	naixo (enaixo	9
Hola	Wall thickness(mm)	Hos Hos Hos	- HO
(9)	Cheesecloth did not ignite	ing testing testing	√e ^s N
S.4	Flammability classification of materials	ilaxiana ilaxiana ilaxian	N
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	ing Testing Testing Testing	N S Testing
HUST	Samples, material	Hos Hos	- HO
(9 (8	Wall thickness(mm)	ing testing testing	resting
. waxiang	Conditioning (test condition), (°C)	maxiang maxiang maxian	<u> </u>
19	Test flame according to IEC 60695-11-20 with conditions as set out	ing Testing Testing	N
Huaxiang	After every test specimen was not consumed completely	Huaviania Huavian	N
o viano Te	After fifth flame application, flame extinguished within 1 min	ing resing resing rian	N STORY

Tens: T	MECHANICAL STRENGTH TESTS	res ear	√°°P
T.1	General requirements	See the following details.	PΥ
T.2	Steady force test, 10 N	sing sting sting	N
T.3	Steady force test, 30 N	wiang le wilder	N
T.4	Steady force test, 100 N	(See appended table T.4)	PΥ
T.5	Steady force test, 250 N	tesing tesing	, s N
T.6	Enclosure impact test	Paixe Pasixe Pasixe) N
Hos	Fall test	Has Has Has	N
. 1	Swing test	esing resing	√es N
T.7	Drop test	Complete equipment was dropped onto a horizontal surface from the height of 1000 mm for three times.	P H
T.8	Stress relief test	(See appended table T.8)	Р
Т.9	Impact Test(glass)	No such glass provided within the equipment.	N H
T.9.1	General requirements	See above.	N
T.9.2	Impact test and compliance	See above.	N
9	Impact energy (J)	esin ⁹ Testin ⁹ Testin ⁹	resting
. axiano	Height (m)	engian ⁹ axian	_ _
Γ.10	Glass fragmentation test	(See sub-clause 4.4.4.9)	N
Т.11	Test for telescoping or rod antennas	No such antennas provided within the equipment.	Test N
Ho	Torque value (Nm)	See above.	

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 31 of 50



		EN IEC 62368-1		
Clause	Requirement	wiang Tes	Remark	Result

Û	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		o Testi N
U.1	General requirements	No CRT provided within the equipment.	N Hus
U.2	Compliance and test method for non-intrinsically protected CRTs	See above.	o N
U.3	Protective Screen	See above.	, N

٧	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		
V.1	Accessible parts of equipment	Following the probes test specified in this annex except Figure V.3., V.4 and V.5 is not suitable.	ores P
V.2	Accessible part criterion	No live parts can be accessible.	_< 05 P

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 32 of 50



70	enire enire	EN IEC 62368-	1 ₁₀₀ 2110	illo	ening Par
Clause	Requirement	Asa. Aisud Lean Aisud Le	Remark	g Tes	Result

(Au	dio/video, information and communication technology	equipment Part 1: Salety requiremen	its) 🚕
1970°	CENELEC COMMON MODIFICATIONS (EN)	ing Page	978en-
1 Huan	NOTE Z1	Hosp. Hosp. Hosp.	PΥ
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	ing enise tensis on tesing	o Testi N
	a) Included as parts of the equipment	Hay Hay Hay	N
	b) For components in series with the mains; by devices in the building installation	ing iang Tesing iang Tesing ian	o Testi N
	c) For pluggable type B or permanently connected; by devices in the building installation	llug "ilug "ilug Hri _{se",} Hri _{se",} Hri _{se",}	N Y
5.4.2.3.2.4	Interconnection with external circuit	ian ^{g Tes}	√ N
10.2.1	Additional requirements in 10.5.1	History History	NΥ
10.5.1	RS1 compliance measurement conditions	enits enits en	P
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances	wish wish	○ N
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	No rating rating	N Y
G.7.1	NOTE Z1	viang wiang in wiar	P ا
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (E	N) Hus Hus	4
1.1.15	Denmark, Finland, Norway and Sweden: Class I pluggable equipment type A marking	ing resting resting right	N Cost
4.7.3	United Kingdom: Torque test socket-outlet BS 1363, and the plug part BS 1363.	Toesing State Lesing Home Home	N P
5.2.2.2	Denmark: Warning for high touchcurrent	Mg Hing Hing Hong	N Y
5.4.11.1 and Annex G	Finland and Sweden:	This ratio Historia. Historia.	O N
5.5.2.1	Norway: Capacitors rated for the applicable line-to-line voltage (230 V).	Tua Pina Fina Hinaxigu	9 N Y
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.	Huaxiang is Huaxiang is Huaxian	N Y
5.6.1	Denmark: Protection for pluggable equipment type A; integral part of the equipment	Huayang Testing Huayang Testing	N
5.6.4.2.1	Ireland and United Kingdom: The protective current rating is taken to be 13 A	Huaxiang Team Huaxiang Team Huaxian	N
5.6.5.1	Ireland and United Kingdom: Conductor sizes of flexible cords to be accepted by	ing Testing Alang Testing Alang	o TestiN
5.7.5	terminals for equipment rated 10 A to 13 A Denmark:	4ns. Hnsv. Hnsv.	N
waxiang Tes	The installation instruction affixed to the equipment if high protective conductor current	unaviang Testina uaviang Testina	97851113

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 33 of 50



9	EN IEC 62368-	1 _{in9} e _{nits} e _{nits}	Paija
Clause	Requirement	Remark	Result
704	Nonce and Overday and	H- H- H-	×0
5.7.6.1	Norway and Sweden: Television distribution system isolation text in user manual	Huaxiang Testins Huaxiang Testins	org Test No
5.7.6.2	Denmark:	eniis eniis eni	N
	Warning for high touch current	in cot engin	3119783
3.3.1	Ireland and United Kingdom:	Hose Hose	N
and B.4	Tests conducted using an external miniature circuit breaker or protective devices included as an integral part of the direct plug-in equipment	ing Huaxiang Testing Huaxiang Testing	arg Testing Y
G.4.2	Denmark:		N
	Appliances rated ≤13 A provided with a plug according to DS 60884-2-D1:2011.	Huaxiang Testing Huaxiang Testing	arg Testi.
	Class I equipment provided with socket-outlets provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	ong Paling Testing Onesiang Testing States of Te	org Testin
	If a single-phase equipment having rated >13 A or poly- phase equipment provided with a supply cord with a plug, plug in accordance with the standard sheets DK 6- 1a in DS 60884-2-D1 or EN 60309-2.	ing testing testing Huaviang Testing Huavi	N '
Huaxiang Tr	Mains socket outlets intended for providing power to Class II apparatus rated 2,5 A in accordance with DS 60884-2-D1:2011 standard sheet DKA 1-4a.	ing Huaxiang Testing Huaxiang Testing	ors Testi N
g -na ^{T1}	Other current rating socket outlets in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	ing Testing no Testing	N TestiN
	Mains socket-outlets with earth 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	ing Testing Hrayes Hraye	N P
G.4.2	United Kingdom:	inskiene inskiene	N .
	The plug part of direct plug-in equipment assessed to BS 1363	ing 162iug 162iug	Testing
G.7.1	United Kingdom:	waxiene waxiene	N N
	Equipment fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No.	ing enited the thing in the same of the sa	arg Testing
	1768	Hraxia, Hraxia, Hraxia	×.
G.7.1	Ireland:	eniis eniis enii	N
	Apparatus provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use	Huaxiang Team Huaxiang Team	319 ^{Tes} *
G.7.2	Ireland and United Kingdom:	-19 Testi	N See N
Hnaxiai.	A power supply cord for equipment which is rated over 10 A and up to and including 13 A.	Hilayian Hilayian A	
C	ANNEX ZC, NATIONAL DEVIATIONS (EN)	su. ag Testin	078511-
10.5.2	Germany:	Hnaxia, Hnaxia, Hnaxi	N
	Cathode ray tube intended for the display of visual images, authorization or application of type approval and marking.	ing testing testing	ang Testing

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 34 of 50



4.1.2 TA	BLE: List of critical co	omponents	a Testillo	Testilis	P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Battery	XHY	602040	800mAH	EN IEC 62368 -1	Tested with appliance
PCB	Various	HBE53	V-0, 130°C	UL 94	TO ÜL
Internal wire	Kangdakuan	1571#28	380MM*2C	UL 758	UL HUAY
Plastic enclosure	Anjiahongli	ABS PP	V-0, 105°C	UL94	ng Te ^{sting}
Speaker	Haomingyang	40MM	24Ω	EN IEC 62368 -1	Tested with appliance
Supplementary in	nformation:	wayian ⁹	9 Vayiang	waxiang W	ing Park

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 35 of 50



	- 2/1/10						1112
4.8.4, 4.8.5	TABLE: Lithium coin	/button cell batterie	es mechanical	tests		0 ⁷⁸⁵	N
(The following	ng mechanical tests ar	e conducted in the	sequence note	ed.)			
4.8.4.2	TABLE: Stress relief	test					<u>m</u> 0
ian ^o Pa	art in the same of	Material	Oven Tempe	erature (°C)	iang Tes	Commen	ts
Husy	Husz. Husz.	H _{ngr} H	HAS	HUS	,	Mar	Husy
4.8.4.3	TABLE: Battery repla	cement test					_{:0} 9
Battery part	no ⁰⁹	iang '	xiang '	kiang '	axiang _	Sixo	
Battery Insta	llation/withdrawal	Battery Insta	llation/Remov	al Cycle	Commen	ts	
			resting	√1stin9	Testin9	7 es	Q_{III}
			18.118U9	, ian ^o 2	Kisug.	waxian9	113X18
			4,0	3			
			Testills	4	Testins	765	ilia
			Jajans Hua	^{Xians} 5 Xua	xial s	Anaxian's	Maxis
			Onia	6	On:.		
			-19 Teshi	8	-ng Tesh.	-ng 7e5	0.
			na _{ga} .	9 4112	Xia.	Angxia.	Huaxis
Vije	e _{nir} o e	eniire eniir	e _{nin} o	10	Onits.		$\varrho_{\Omega_{i}}$
4.8.4.4	TABLE: Drop test	es leaves	iang Tes	iang Tes	iang Tes	iang Tes	\2

4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batterie	s mechanical tests	N	
(The follow	ing mechani	cal tests are conducted in the s	sequence noted.)	axiang	
Impact Area	Hos	Drop Distance	Drop No.	Observations	
Testin	9 185 ^{til}	is resting resting	Testing Testing	Testing	
waxiano waxiano		maxiang maxiang	2	waxian9	
41.	41-	41.	3	412	
4.8.4.5	TABLE: Im	pact	on Testing	~ Testins	
Impacts per surface		Surface tested Impact energy (Nm)		Comments	
	(D	ens ens	Pnis Pnis Pnis	Q	
-209 Tesh.		ang testin	ing Testing Testing Testing	ing Tesu	
Huaxia	HABYLO	Hnsya, Hnsyla, Hns	Huaxla Huaxla	Hingyan Hing	
4.8.4.6	TABLE: C	rushtest	enits enits	0.775	
Test positior	n Huaxiang Tes	Surface tested	Crushing Force (N)	Duration force applied (s)	
Nite	Q eil	enin enin en	enin enin enin	$\varrho_{n_{i_{2}}}$	
iang Tes	iang Test	iang Tes	and test	iang Tes	
Supplement	ary information	on:Huan Huan	Hugy, Hugy	Husy Hus	

4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result							N Y
Test position	9 wigng Test	Surface tested		Force (N)			Duration force applied (s)	
		HUST		Hus				War
2/3.	(0)	0,0	e _{nin} o	e _{niin} o	e _{nir} .	e _{nir} ,	e _{nir} o	ening

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 36 of 50



522	2 – Steady St	ate Voltage and Cu	rrent	conditions	,					
0.2.2	Supply	Location (e.g.	T CITE	CONGRES	Testing Pa	rameters	185til	,0	ES Class	
No.	Voltage	circuit designation)	Tes	st conditions	U Huskis	HABYA	, no	Hz	LO Olass	
	resting	osin ⁰	<u>979</u>	- 18sting	(Vrms or Vpk)	(Apk or A	rms)	<u> </u>	- < sting	
1	5V	Internal circuit		rmal	4	ng iong 10		DC	ES1	
	Hua	Hija	_	normal	HUZ	4/7/0		1777,00	Hus	
)	no resting	ing Testing		gle fault – /OC: USB SC	-00 Test 4	resting	ng Testir	DC	ng Testing	
2 11371	Fully	Battery pack	No	rmal	5V	40x		DC	ES1	
	charged	output	Abı	normal	01 115	<i>Onii</i>		·	e _{nii} o	
	battery	sir sc		gle fault – /OC: P- and B	5V	O	ing Tes	DC	Hua Hua	
5.2.2.	3 – Capacitan	ice Limits	Wa -	on Testing	on Testins	Testing	1785til		1 CStine	
Huaxis	Supply	Location (e.g.circu	uit	Maxiana		Parameters		ES Class		
No.	Voltage	designation)	ing.	Test conditions	Capacitano	ce, nF Upk (V)		(V)	restin9	
Xis	10 10 N	819 1018		Normal	ieng i eng) die	ng '	07	no '	
	Hua	Hus.	Y	Abnormal	Hus	40,00		Huis	Hus	
)	o Testing	ng Testing	ing	Single fault – SC/OC	ang Testing	Testing	ng Testi	,9	ng Testing	
5.2.2.	4 – Single Pul	ses	4	ingxic Hing.	Huaxie	Hnax.		Huax	Hns,	
	Supply	Location (e.g.circu	uit		e _{din} o F	Parameters	Vije	19	ES Class	
No.	Voltage	designation)		Test conditions	Duration (ms)	Upk (V)	lpk (r	nA)	ang Te	
Hnax.	Husz.	Hnav.	4	Normal	Anax	Angx.		Hnsy	Hus	
	resting.	stin9	$\varrho_{n_{ij}}$	Abnormal	esin ^o	eiin ^g	z stiV	<u>70</u>	stin9	
	40sylf	ing in Huaxiang in	Y	Single fault – SC/OC	isya Hnaxiava	Huaxir	NIO 10	Huax	Hng,	
5.2.2.	5 – Repetitive	Pulses	enij	Pair	. enits	ening	c'ii'	19	e _{nite}	
.i\S	Supply	Location (e.g.circu	uit	iang Te	Parameters		ES Class			
No.	Voltage	designation)	Y	Test conditions	Off time (ms)	Upk (V)	lpk (r	nA)	Hng	
	z estin <u>9</u>	resting rest	ϱ_{nij}	Normal	cesting	sing _	1	<u>19</u>	z esting	
	10	ng To		Abnormal	isug _{Wisug}	- ~	7U.O. /	<u></u> ai	18/19	
	^{-iiu} d Hn _{sv}	tilla Hn _{sv.}	t Pni	Single fault – SC/OC	*!U0 -	iiua Haa		10 	*!!UQ H/1/5.	

Normal – Abnormal –

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

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 37 of 50



5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measure	ments	Huaxiang Testi	Lluaxiang Testins	XAMO TESTINO
lon:	Supply voltage (V)	00.	5VDC	en	:
:209 Tesu	Ambient Tamb (°C)	: 24.8	iang Test	25.1	ing Testin
Maximum mea	sured temperature T of part/at:	Huana catin	T (°C)	ug Ping Hing	Allowed T _{max} (°C)
PCB	ensi, "Fensi, "Fensi,	35.8	viano Te	38.6	130
Internal wire	High High	27.2	Hr.s.	28.5	70
Battery surface	resing resing	31.3		33.1	45
Enclosure insid	e near battery	27.8	axiang '	28.3	Ref.
Enclosure outsi	ide near battery	27.2	How	27.5	48
Supplementary method.	/ information: *) Temperature limits	s for winding inclu	de less 10K	for thermocouple m	neasurement
Temperature T	of winding: t ₁ (°C)	R ₁ (Ω) t ₂ (°C)	Υ13 (Ω)	T (°C) Allowed	d Insulation °C) class

165°	4 62°	< eP		465°	x 65°	× 65	X (· max (\circ)	(65)
exiang,	e energia	exiang '	xian	·	13UO,	xiang '	ang '	ensix	4
How.	Haza.	Hom	400	Has		App.	Hage.	Hay	-400

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

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

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N
Allowed impressio	n diamete	er (mm)	: ≤ 2 mm	~0 Testills	ad Testills	a Testills
Object/Part No./M	aterial	Manufacturer/trademar	rk Test tempe	erature(°C)	Impression	diameter (mm)
enie —	_{sin} o	one en	e _{nis} e	Onis	ϱ_{Tite}	o _{nis}
Supplementary inf	formation	: ,and 1850 ,and 1850	iang Test	iang Testi	iang Test	iang Test

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minin	num Clear	ances/Cre	eepage dist	ance	Huaxiann	y Tee	no Te N
Clearance (cl) a distance (cr) at/o		Up (V)		Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required 3 cr (mm)	cr (mm)
-Hua. Hi		H		Hola.	Hijo.	Files	Hua	Hills.

Supplementary information:

Note 1: Only for frequency above 30kHz

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	l voltage	√ est N			
Maxians	Overvoltage Categor	uaxians	ansylans			
\ .	Pollution Degree:					
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Measured	cl (mm)	
		\				
Suppleme	ntary information:	estins Testins	Testins Testins	Testins	Testins	

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 38 of 50



5.4.2.4	TABLE: Clearances	based on electric stren	ngth test	ing Testin	N Test
Test voltage	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No	Hns.
ng Tesh		16211, 16211,	10 (ser.,	-ng 785th	-no Tesm
Supplement	ary information:				

ge (V) Fred		16" _ 16" _	165
• • • • • • • • • • • • • • • • • • • •	quency Material z)	Required DTI (mm)	(mm)
en en e	e _{tin} o	ening	-1 09
	• • • • • • • • • • • • • • • • • • • •	(kHz)	(kHz) (mm)

5.4.9	TABLE: Electric strength tests	g rang ,	ensiyang Pensiya	N ⁽²⁾
Test voltag	ge applied between:	Voltage shape (AC,	Test voltage (V)	Breakdown
)	sing sting	DC)	resting stin	Yes / No

5.4.9 TABLE: Electric strength tests	resting	resting resting	√ es ^{ti} N
Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:	resting	resting	Testin9
akiang ' akiang ' akiang '	waxiang '- waxiang) , , , , , , , , , , , , , , , , , , ,	axiano ' waxis
Basic/supplementary:	Hos	Hos	Hos
Testing Testing Testing	o Tostino	resting - resting	1 (esting
Reinforced:	- waxiang	, waxiany	waxiany
	~		
Routine Tests:	, 1851111S	restins	Testiris
Luaxians Luaxians Luaxians	Huaxians Huaxians	Huax <u>ians</u>	maxians Huaxis
Supplementary information:	00::	, , , , , , , , , , , , , , , , , , ,	Paris

5.5.2.2 T	ABLE: Stored	discharge on cap	acitors	en _{is}	enia enia	N
Supply Voltage	(V), Hz	Test Location	Operating Condition (N, S)		Measured Voltage (after 2 seconds)	ES Classification
- 165th	~ Testins		6 <u>5111.9</u>	(85 ¹¹¹¹³	18511115 18511115	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

X-capacitors installed for testing are:

- bleeding resistor rating:
- □ ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 39 of 50



5.6.6.2	TABLE: Resistance of protective conductors and terminations					
Accessible p	part	Test current (A)	Duration(min)	Voltage drop (V)	Resistance(Ω)	
Juaxiams	Haxiana Ho	a lans Huaxians Huaxian	_{AUSXISIUS}	HUBYIANS	Maxigue Ma	
-	, , , , , , , , , , , , , , , , , , , ,					
1050		on Teshins	Testin.	- 1 785/1113	105th	
Supplement	tary information:	Anayang Hinaxiang	Hrighland	HASKISHS	Hnaylaus Hnay	

5.7.2.2,	TABLE: Earthed	accessible	conductive part				N Hills
5.7.4	en _{its}	Onits	$\varrho_{n_{i,z}}$	ening	e _{nit}	o _{nite}	enii-
Supplyvoltage		<u>,0</u> 1031	,00 ⁷⁶⁰ ,00	(es 1879)	,-	iang Tes	12ng Test
Location				Test condition of IEC 60990 No in IEC 609 through 6.2.2 6.2.2.7	or Fau 990 cla	Ilt Condition use 6.2.2.1	Touch current (mA)
Testins	(Testille	1estins	Testins	(8 ^{5)(11,5}	1	1estins	765th
Huaxians	Anaxiana Haaxia	Hnaxi	Huaxians	Huaxians	2*	Xians Hus	ingles Hilas
		Q	.:.0	O	3	00	. 0
ng Testin		o resim	ng Testin	(6,5,11)	4	and Testin	705m
Huaxia.	Hns xio	Huaxi	Huaxia	Huaxia	5,00	Ang.	Hing
Onis.	<i>Pair</i>	ening	O _{Nite}	eing	6	Onit.	(3)
:ang Tes	:ang Tes	705	ens: Por	ion 10.	7	·ang Test	ing Tes-

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 notapplicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2	Table: Electrica	I power sources (PS)	P		
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
A sing	Battery pack	Power (W) :	Q _{ajja} o,	0.148	PS2
output	VA (V) :	wiang wiang	3.7	aiang Ter	
	May Hua	I _A (A) :	- Hos	0.04	Hua
Bresting	Battery cell	Power (W) :	Testing	0.532	PS2
	output before	V _A (V) :	auaxian9 auaxian9	3.5	ariang
	protect board	I _A (A) :	:-0	0.152	::00

Supplementary Information:

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

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 40 of 50



6.2.3.1	.2.3.1 Table: Determination of Potential Ignition Sources (Arcing PIS)								
Lo	ocation	Open circuit voltage After 3 s (Vp)		Calculated value (Vp x Irms)	Arcing PIS? Yes / No				
: 2179 7 853	:ang Tes	and Test		: MO Tes	10 Tes				

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: Determination of Potential Ignition Sources (Resistive PIS)									
Circuit Loca y)	ation (x-	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			
Battery cell		S-C	22.5	11.9	No	No			

Supplementary Information:

A combination of voltmeter, VA and ammeter IA may be used instead of awattmeter.

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

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

8.5.5	TABLE: High Pressure Lamp	Ho	Ho. Ho.	N
Description	ng Testing Testing	Values	Energy Source Class	ification
Lamp type	Pagin Pagin	waxian9	waxian ⁹ —axia	g
	er:		7	7
Cat no	ns resilins resilins	isting Testing	ins	Testins
Pressure (co	old) (MPa):	Maxiana Maxiana	MS_	M _S
Pressure (o	perating) (MPa):		MS_	0
Operating ti	me (minutes)	35 ^{th 1}	~0 ⁷ e ^{5th} —	ng Testing
Explosion m	nethod:	Hngx _{lg} , Hngx _{lg} ,	HABYIOL HONO	Hus
Max particle	e length escaping enclosure (mm).:	, eni, eni,	MS_	enin 9
Max particle	e length beyond 1 m (mm):	162 10 162 10 162	MS_	ng Test
Overall resu	ılt	Hngxin Hngxin	Hnaxic Hnaxic	Hus
Supplement	tary information:			

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 41 of 50



B.2.5	TABLE: In	out test	7000	62,	09 Test			ng Test P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	Testing Hua
4.0	0.018	Huaxians 	0.072	0.09	- Testing	Huaxians	1/8 power of non-cl power, 1 kHz sinus and operated on blu mode.	oidal wave,
4.0	0.021	Hus	0.084	0.09		Hus	Only charging.	Hns
4.0	0.022	Huaxiang Testi	0.088	- Hn	xiano Testino	Huaxiang Test	1/8 power of non-cl power, 1 kHz sinus and operated on blu mode.	oidal wave,

B.3, B.4 TAB	LE: Abnorm	nal operating	condition to	ests	Stiny		SSIINY	Testing	1	(Selini)
Ambient tempera	ture (°C)	oxi ^{gna}	Ÿauz	xians	: ,,,	25°C	if not ment	ioned	axiam	_
Power source for	EUT: Manuf	acturer, model	/type, outpu	it rating		See p	age 2	40		_
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		ise nt, (A)	T-couple	Temp.	Obs	ervation
U1	S-C	5VDC	10 mins						can'	appliance t work, no card, no cen
D1	S-C	5VDC	10 mins						can' harz brok	
С3	S-C	5VDC	10 mins						can' harz brok	
Battery	S-C	5VDC	10 mins						can' harz brok	
Battery	Over- charge	5VDC	7 hours						worl Rec tem PCE Batt surfa 32.4 No o	perature: 3: 33.2°C ery ace:
Battery	Over- discharge		7 hours						worl Rec tem PCE Batt surfa 31.5	perature: 3: 32.8°C ery ace:

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 42 of 50



Annex M	TABLE:	Batterie	S AUG	XI'O'		Hraxian		Hingkign	Huaxia	HUBXIS	P HV8
The tests of A	nnex M a	re appli	cable only wh	en ap	oropi	riate ba	attery	data is not av	ailable	en.	ēn
ls it possible t	o install th	ne batte	ry in a reverse	e polar	ity p	osition	?		- ng Te ⁵	-	ng Testin-
Huaxica	Huaxia	HUS	Non-recharg	eable l	oatte	ries	Rech	argeable bat	eries	HUSKIS	Hng
		ysting Yur	Discharging	axiang Te	inte	Jn- ntiona arging	Char	ging Testin	Dischargin	g) Allaxia	Reversed charging
Testing	Meas. current	Manuf Specs	2000	Meas curre	C(()()	Manuf Specs		Meas. current	Manuf. Specs.	Meas.	Manuf. Specs.
Max. current during normal condition	Huaxians	³⁸ 1100 Hus	ANA SAINS HUE	150r	mA	400	mA	150mA	400mA	ulo -	ng T _{asing-}
Max. current during fault condition	This	4u ^s	765 17. 9	150r	nΑ	400	mA	150mA	400mA	40	ng Testing
Huaxic	Haya	HUS	Hus.	XX		Huaxia		Hugylo	Hnaxic	HUBXIC	Husi
Test results:)	enir	Onits .		ening		atin ^o) in	is a second	_{(N} 9	Verdict
- Chemical lea	aks	3-	iang Tes	iang Te	30	ian	765	iang Tes	No leaks	\2	P P
- Explosion of	f the batte	ry 🗥	The Hotel	37.		Hugy.		Hngy.	No explosi	on	P HUS
- Emission of	flame or	expulsio	on of molten m	netal	e _{tin} g		- ostino) stin	No emission	on	P
- Electric stre	ngth tests	of equi	pment after c	omple	tion	of tests) (0	viang 10	- viang	7/3	P
Supplementa	ry informa	ition:	Ha). ·		Husi		Hus	Hus.	Hos	HUS

	ble: Ad tteries	dditionals	afeguards fo	r equipm	ent con	taining seco	ndary lithium	esting	P Fr
Battery/Cell No	o. _{axian} g	Test con	ditions	Measure	ements	axiano	o _{xiang}	Observa	ation
Huch	Hua	HUC	Huc	ι	J	I (A)	Temp (C)	Hon	40
) (e in9		Normal	185ting	3.	7	400mA	45	esting	Testing
·····sxisng	Abnormal		i ³⁰⁹ ₁₁₈ i ³⁰⁹		, II l axiang) I I I I I I I I I I I I I I I I I I I	Sixsu	ης) <u></u>	
	41-	Single fa	ult-SC/OC		-	-0		412	~
Supplementar	y Infor	mation: se	e table Annex	B.4 forde	etail	(estillia	Testillis	estills	-d Testilla
Battery identification	\ r	ging at est (°C)	Observation	igaris	Charg Thigh	ing at est (°C)	Observation	Husig	.va Hni
602040 Li-ion Battery	Maxians	0	Charging cu	rrent: 0	Juaxiang	45	Charging cu	rrent: 0	ng Testin s m

Annex Q.1	TABLE: Circuits	intended fo	r interconnection v	vith buildin	ng wiring (LPS)	N Testin
Note: Meas	sured UOC (V) wit	h all load circ	uits disconnected:	Huaxia	Huaxians	maxian Hua
Output Circuit	Components	U _{oc} (V)	I _{SC} (A	(esting	S (VA	A)
Huaxians	Maxigua	naxiana	Meas.	Limit	Meas.	Limit
·		 -0	.50	·~Q~-	00.	
 Supplemen	tary Information:	-ang Testing	. ang Testing	restind	ng Testing	- 209 Testin
-C=Short	circuit, O-C=Oper	n circuit				

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 43 of 50



T.2, T.3, TAE T.4, T.5	BLE: Steady ford	e test	Huaxiang Tes	Husxiang Les	xiang Tes	_M g ^{Tes} P Hui
Part/Location	Material	Thickness (mm)	Force(N)	Test Duration (sec)	Observation	ng Testing
Top enclosure	Plastic	1.5	100	11/2×11/2 5 HUS	No damaged	HU
Side enclosure	Plastic	1.5	100	5	No damaged	.in9
Bottom enclosure	Plastic	1.5	100	5	No damaged	

T.6, T.9 TA	BLE: Impacttest	is eine en	enirs e	enin enin	, N
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation	Waxi
enii e	Orm.	nis enis	e _{mis}	0. 	ϱ_{mi}
- 105°	. ng 185°	19 Test		9165*	
Supplementary	information:	HUBYRAITS	Hnsyler Hn	Hriaxies Hriaxies	Huax

T.7 TA	ABLE: Droptests	Huan	Huan	High High High	P Huan
Part/Location	Material	Thickness(mm)	Drop Height (mm)	Observation	ang Testing
Top enclosure	Plastic	1.5	1000	No damaged	Huax
Side enclosure	e Plastic	1.5	1000	No damaged	ening
Bottom enclosure	Plastic	1.5	1000	No damaged	
Supplementar	y information:	enits .	enits enits	Parity Parity	e _{tin} 9

T.8	TABLE: Stress relie	f test	ting resting	resting	r _{estin} o	_{rest} P
Part/Location	Material	Thickness(mm)	Oven Temperature (°C)	Duration (h)	Observation	Husxi
Completed sample	Plastic enclosure (for all sources)	Min. 1.5	70	7	No damaged, no hazards.	
Supplementa	ry information: For de	etails refer to appe	ended table 4.1.2.	ax. Hnay	H ₁₁₉₁	Huax

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 44 of 50



ATTACHMENTS: REAL PHOTOS



Photo 1

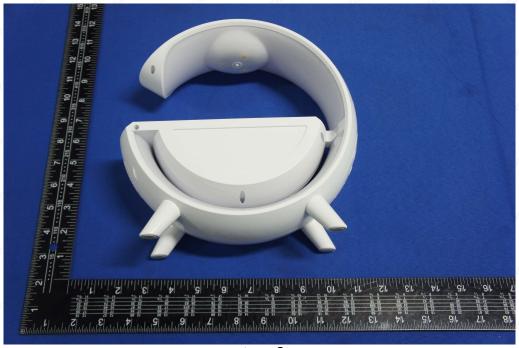


Photo 2

Web: www.hua-x.com Tel: 0755-23010432 Email: huaxiang@hua-x.com Page 45 of 50





Photo 3



Photo 4





Photo 5

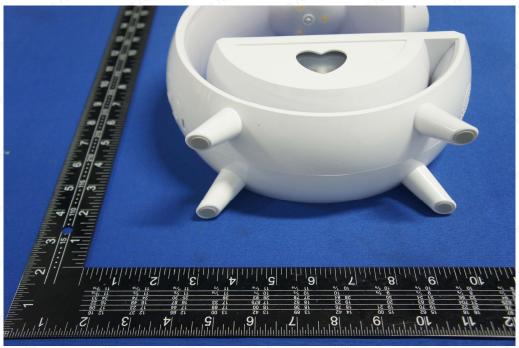


Photo 6





Photo 7

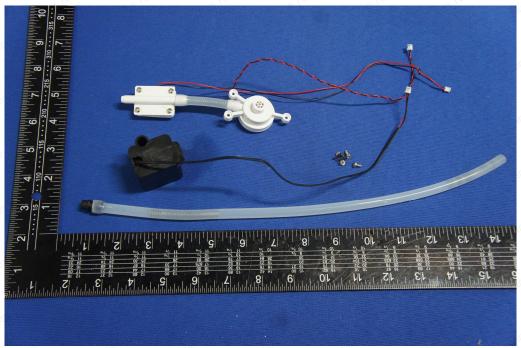


Photo 8



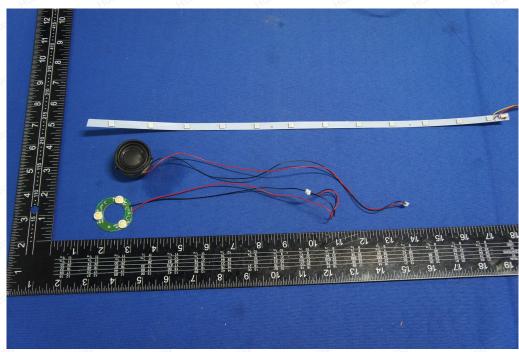
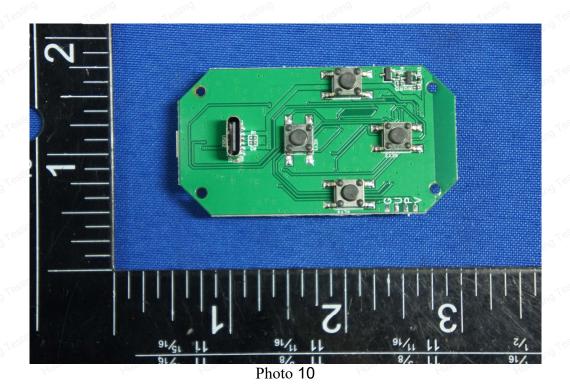


Photo 9



Web: www.hua-x.com



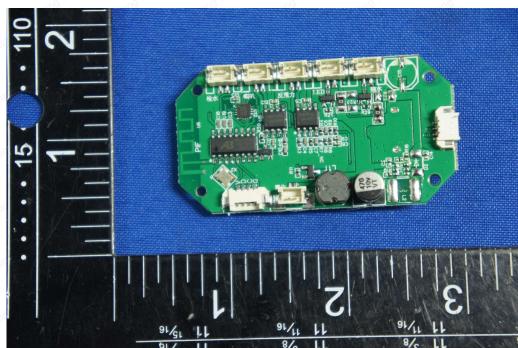


Photo 11

End of the report