

TEST REPORT EN 62368-1

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

Report Number: LCSA110122122S

Date of issue 2022-11-15

Total number of pages: 80

Name of Testing Laboratory

preparing the Report.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Applicant's name: V-TAC EXPORT LIMITED

Test specification:

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

Test procedure: Type test

Non-standard test method: N/A

TRF template used.....: IECEE OD-2020-F1:2020, Ed.1.3

Test Report Form No.: IEC62368_1D

Test Report Form(s) Originator ..: UL(US)

Master TRF: Dated 2021-02-04

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Test Item description:	Portable Power Station	1	
Trade Mark:	V-TAC Meaningful Innovation.		
Manufacturer:	Win-Power Technolog	y Limited	
		Industrial Road 1, Zhangkeng Path treet, Longhua district, Shenzhen City	
Model/Type reference:	YW-600, YW600-VT-6	06	
Ratings	DC output: 12V—8A. Wireless charging outp USB-A1 output: 5V—2 USB-A2 (QC3.0) output 20V—0.9A, 18W Max	0A max 50/60Hz, 1000W Max. but: 15W Max. 2.4A, 12W Max. ut: 5V=3.0A, 9V=2.0A, 12V=1.5A,0A, 9V=3.0A, 12V=3.0A, 15V=	
Testing procedure and testing location:			
☐ ☐ Testing Laboratory:	Shenzhen LCS Compl	iance Testing Laboratory Ltd.	
Testing location/ address:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China		
Prepared by:	Vic Liu Project Handler	Vie bin	
Checked by:	Terry Zhu Reviewer	Jenn Vm	
Approved by:	Hart Qiu Technical Director	Hut Uzi	



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

Attachment No. 1: EUROPEAN GROUP DIFFERENCES

Attachment No. 2: Photo document

Summary of testing:

Tests performed (name of test and test clause):

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

Electrical safety:

EN 62368-1:2014+A11:2017

Testing location:

Shenzhen LCS Compliance Testing Laboratory Ltd.
Room 101, 201, Building A and Room 301, Building C,
Juji Industrial Park, Yabianxueziwei, Shajing Street,
Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

 \boxtimes The product fulfils the requirements of <u>EN 62368-1:2014+A11:2017</u> (insert standard number and edition and delete the text in parenthesis or delete the whole sentence, if not applicable)

Statement concerning the uncertainty of the measurement systems used for the tests

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type testing

When determining for test conclusion, measurement uncertainty of tests has been considered.

The determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.









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Copy of marking plate:

The artwork below may be only a draft.

Technical specifications
Name: portable Power Station
Model:YW-600
Energy of lithium ion battery pack:26.2Ah/21.6V 568Wh
DC input:12-24V-5.0A Max
AC output:220V, 2.7A 50/60Hz, Continous 600W peak value 1000W
DC output:12V-8A
Wireless charging output:15W Max
USB-A1 output:5V-2.4A,12WMax
USB-A2(QC3.0)output:5V-3.0A,9V-2.0A,
12V-1.5A,20V-0.9A,18W Max
USB-C output:5V-3.0A,9V-3.0A,
12V-3.0A,15V-3.0A,20V-3.25A,
65W Max
Service temperature:-10-40°C
Charging temperature:0-40°C
Manufacture company:
Win-Power Technology Limited

MADE IN CHINA



Note:

The height of CE symbol \geq 5.0mm, the height of WEEE symbol \geq 7.0mm.



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TEST ITEM PARTICULARS:	
Classification of use by:	☑ Ordinary person
	Skilled person
	☐ Children likely to be present
Supply Connection:	☐ AC Mains ☐ DC Mains
	External Circuit - not mains connected
	- ⊠ ES1 □ ES2 □ ES3
Supply % Tolerance:	☐ +10%/-10%
	+20%/-15%
120	
Supply Connection – Type:	pluggable equipment type A -
	non-detachable supply cord
	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	30A (STesting
of building or equipment installation	Installation location: \square building; \boxtimes equipment
Equipment mobility:	
	stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC):	
Over voltage category (Ove)	OVC IV other: not Mains connected
Class of equipment:	Class I Class II Class III
Class of equipment	Not classified
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40°C
IP protection class:	☑ IPX0 ☐ IP
Power Systems	☐ TN ☐ TT ☐ IT V _{L-L}
Altitude during operation (m):	
Altitude of test laboratory (m):	☐ 2000 m or less
Mass of equipment (kg):	⊠ <u>5,33</u> kg



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POSSIBLE TEST CASE VERDICTS: - test case does not apply to the test object.....: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail) TESTING: Date of receipt of test item.....: See original test report Date (s) of performance of tests.....: See original test report **GENERAL REMARKS:** "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a \square comma / \boxtimes point is used as the decimal separator. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market. The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity. Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02: The application for obtaining a CB Test Certificate includes more than one factory location and a Not applicable declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided: When differences exist; they shall be identified in the General product information section. Name and address of factory (ies): Same as the manufacturer **GENERAL PRODUCT INFORMATION: Product Description** The equipment is a Portable Power Station that intended to supply other equipment within the scope of this part of IEC 62368-1. The maximum operated ambient temperature is +40°C. 2. 3. This equipment is intended to operate in an area which has an elevation of maximum 2000m.

- 4. All models are identical except for the model name. All tests used for model: YW-600.
- The differences between this report and the original report (report number: LCS211111115AS) are: 5. changed the applicant's name and address, changed the trade mark and additional model name. The difference does not affect the safety of the product, and the test data refers to the test data of the original report number: LCS211111115AS.

Additional application considerations – (Considerations used to test a component or sub-assembly) –



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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.

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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)
24Vd.c. input	ES1

Electrically-caused fire (Clause 6):

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

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
Internal circuits within unit	PS3
USB-A1 Output	PS1
USB-A2 (QC3.0) Output	PS2
USB-C Output	PS2
DC Output	PS3
AC output	PS3 (declared)
Battery	PS3 (declared)

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

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

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)		
Mass of the unit	MS1	Till Tillesting Lab	
Edges and corners	MS1		

Thermal burn injury (Clause 9)

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

Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Enclosure (plastic/metal)	TS1



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

Radiation (Clause 10)

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

Type of radiation	Corresponding classification (RS)
Indicator light	RS1
LED lamp	RS1

ENERGY SOURCE DIAGRAM

Indicate which energy sources are included in the energy source diagram. Insert diagram below

⊠ES ⊠ PS ⊠ MS ⊠ TS ⊠ RS

OVERVIEW OF EMPLOYED SAFEGUARDS				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source (ES3: Primary Filter circuit)	Safeguards		
(e.g. Ordinary)		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	ES1: 24Vd.c. input	N/A	ab N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment fire enclosure	PS3: All internal circuits inside the equipment enclosure	Equipmen t safeguard (e.g., no ignition occurs; no parts exceeding 90% of its spontaneo us ignition temperatu re)	Equipment safeguard (e.g., control of fire spread; PCB is complied with V-0 material; All other components at least V-2 except for mounted on min. V-1 material or small parts of combustible material)	N/A
USB-C Output	PS2	N/A	N/A	N/A
USB-A1 Output	PS1	N/A	N/A	N/A
USB-A2 (QC3.0) Output	PS2	N/A	N/A	N/A
DC Output	PS3	Equipmen t	Equipment safeguard (e.g.,	N/A



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LCS 18-	1000 100 1100 1100 1100 1100 1100 1100	safeguard (e.g., no ignition occurs; no parts exceeding 90% of its spontaneo us ignition temperatu re)	control of fire spread; PCB is complied with V-0 material; All other components at least V-2 except for mounted on min. V-1 material or small parts of combustible material)	II股份
AC output	PS3 Testing Lab	Equipmen t safeguard (e.g., no ignition occurs; no parts exceeding 90% of its spontaneo us ignition temperatu re)	Equipment safeguard (e.g., control of fire spread; PCB is complied with V-0 material; All other components at least V-2 except for mounted on min. V-1 material or small parts of combustible material)	N/A
7.1	Injury caused by hazardous	s substances		
Body Part	Energy Source		Safeguards	
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
			NI/A	
N/A	N/A	N/A	N/A	N/A
N/A 8.1	N/A Mechanically-caused injury		N/A	N/A
8.1 Body Part	Mechanically-caused injury Energy Source		Safeguards	N/A
8.1 Body Part (e.g. Ordinary)	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp)			Reinforced (Enclosure)
8.1 Body Part (e.g. Ordinary)	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp)	Basic	Safeguards	Reinforced
8.1 Body Part (e.g. Ordinary)	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp)	Basic	Safeguards Supplementary	Reinforced (Enclosure)
8.1 Body Part (e.g. Ordinary) Ordinary	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp) MS1: Mass of the unit<7kg	Basic N/A	Safeguards Supplementary N/A	Reinforced (Enclosure)
8.1 Body Part (e.g. Ordinary) Ordinary Ordinary 9.1 Body Part	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp) MS1: Mass of the unit<7kg MS1: Edges and corners Thermal Burn Energy Source	Basic N/A	Safeguards Supplementary N/A	Reinforced (Enclosure)
8.1 Body Part (e.g. Ordinary) Ordinary Ordinary 9.1	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp) MS1: Mass of the unit<7kg MS1: Edges and corners Thermal Burn	Basic N/A	Safeguards Supplementary N/A N/A	Reinforced (Enclosure)
8.1 Body Part (e.g. Ordinary) Ordinary Ordinary 9.1 Body Part	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp) MS1: Mass of the unit<7kg MS1: Edges and corners Thermal Burn Energy Source	Basic N/A N/A	Safeguards Supplementary N/A N/A Safeguards	Reinforced (Enclosure) N/A N/A
8.1 Body Part (e.g. Ordinary) Ordinary Ordinary 9.1 Body Part (e.g., Ordinary)	Mechanically-caused injury Energy Source (MS3:High Pressure Lamp) MS1: Mass of the unit<7kg MS1: Edges and corners Thermal Burn Energy Source (TS2) TS1: Plastic/metal	Basic N/A N/A Basic	Safeguards Supplementary N/A N/A Safeguards Supplementary	Reinforced (Enclosure) N/A N/A



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Body Part Energy Source (Output from audio port)		Safeguards		
	Basic	Supplementary	Reinforced	
Ordinary	RS1: Indicator light	N/A	N/A	N/A
Ordinary	RS1: LED lamp	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

LCS Testing Lab

TITT LCS Testing Lab

上ST 立讯检测股份

REPORT NO.: LCSA110122122S

LST 立语检测股份 LCS Testing Lab

LCS Testing Lab

Tin 拉测度份 LCS Testing Lab















IEC 62368-1 Clause Requirement + Test Result - Remark Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components		Р
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness	7)	股份 P
4.4.4.2	Steady force tests:	(See Annex T.4)	ng LabP
4.4.4.3	Drop tests:	(See Annex T.7)	Р
4.4.4.4	Impact tests:		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:	The external enclosure cannot be opened without damaging the product.	N/A
4.4.4.6	Glass Impact tests:	No such glass used.	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	(See Annex T)	Р
4.4.4.9	Accessibility and safeguard effectiveness	an lik	Р
4.5	Explosion	古语性测图 Lab	N/A
4.6	Fixing of conductors	ST LCSTes.	P
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:	10N test was applied to internal components.	Р
4.7	Equipment for direct insertion into mains socket - outlets		N/A
4.7.2	Mains plug part complies with the relevant standard:		N/A
4.7.3	Torque (Nm):		N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries	N/A
4.8.2	Instructional safeguard	ab Tillian	N/A
4.8.3	Battery Compartment Construction	-122	N/A
	Means to reduce the possibility of children removing the battery:		_
4.8.4	Battery Compartment Mechanical Tests:		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	No likelihood of conductive object entry.	Р



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits:	No such single pulses generated in the EUT or applied to it	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals:	No ringing signals	N/A
5.2.2.7	Audio signals:	No audio signals	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		Р
5.3.2.1	Accessibility to electrical energy sources and safeguards		Р
5.3.2.2	Contact requirements	No opening of enclosure, no access with test probe to any ES3 circuit or parts	Р
古·用粒 ^{测明}	a) Test with test probe from Annex V:	立语位 All Lab	TIP
LCS	b) Electric strength test potential (V):	BU res.	N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material		Р
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degree	PD2	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	LCS TOST	N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		Р
5.4.1.9	Insulating surfaces		Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A



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山田检测图	IEC 62368-1	二、用於 测度 (f)	山田检测
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10.2	Vicat softening temperature:		N/A
5.4.1.10.3	Ball pressure:		N/A
5.4.2	Clearances		Р
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	Р
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	Р
	a) a.c. mains transient voltage:		
	b) d.c. mains transient voltage:	73	_
WS	c) external circuit transient voltage:	VST CSTesti	_
	d) transient voltage determined by measurement		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	Up to 2000m	N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	Р
5.4.3.1	General		Р ,
5.4.3.3	Material Group:	IIIb	-{//
5.4.4	Solid insulation	大讯位 jing Lab	P
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	Р
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		Р
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	Insulation tape used for transformer	Р
5.4.4.6.1	General requirements		Р
5.4.4.6.2	Separable thin sheet material		Р
	Number of layers (pcs):	2	Р
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	LCS Test	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		Р
5.4.4.9	Solid insulation at frequencies >30 kHz:	(See appended table 5.4.4.9)	Р
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	Insulation resistance (MΩ):			
5.4.6	Insulation of internal wire as part of supplementary safeguard:	No such insulation of internal wire as part of supplementary safeguard	N/A	
5.4.7	Tests for semiconductor components and for cemented joints		N/A	
5.4.8	Humidity conditioning		Р	
	Relative humidity (%):	95%		
	Temperature (°C)	25°C	_	
	Duration (h):	48h	_	
5.4.9	Electric strength test:	(See appended table 5.4.9)	Р	
5.4.9.1	Test procedure for a solid insulation type test		Р	
5.4.9.2	Test procedure for routine tests		Р	
5.4.10	Protection against transient voltages between external circuit	No such external circuits	N/A	
5.4.10.1	Parts and circuits separated from external circuits		N/A	
5.4.10.2	Test methods		N/A	
5.4.10.2.1	General		N/A	
5.4.10.2.2	Impulse test	(4) 测股份	N/A	
5.4.10.2.3	Steady-state test	T I William Lab	N/A	
5.4.11	Insulation between external circuits and earthed circuitry	No such connections for external circuit applied within the EUT	N/A	
5.4.11.1	Exceptions to separation between external circuits and earth		N/A	
5.4.11.2	Requirements		N/A	
	Rated operating voltage U _{op} (V):		_	
	Nominal voltage U _{peak} (V):		_	
	Max increase due to variation U _{sp} :			
	Max increase due to ageing ΔU _{sa} :	7	_	
VS	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	US CS Test	_	
5.5	Components as safeguards		Р	
5.5.1	General		Р	
5.5.2	Capacitors and RC units		N/A	
5.5.2.1	General requirement		Р	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A	
5.5.3	Transformers	(See Annex G.5.3)	Р	



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IEC 62368-1				
Clause	Requirement + Test Result - Remark	Verdict		
5.5.4	Optocouplers	Р		
5.5.5	Relays	N/A		
5.5.6	Resistors	N/A		
5.5.7	SPD's	N/A		
5.5.7.1	Use of an SPD connected to reliable earthing	N/A		
5.5.7.2	Use of an SPD between mains and protective earth	N/A		
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	N/A		
5.6	Protective conductor	N/A		
5.6.2	Requirement for protective conductors	N/A		
5.6.2.1	General requirements	N/A		
5.6.2.2	Colour of insulation	N/A		
5.6.3	Requirement for protective earthing conductors	N/A		
	Protective earthing conductor size (mm²):			
5.6.4	Requirement for protective bonding conductors	N/A		
5.6.4.1	Protective bonding conductors	N/A		
~: 用检测图	Protective bonding conductor size (mm²):	_		
LCS Testin	Protective current rating (A):	1/5 -		
5.6.4.3	Current limiting and overcurrent protective devices	N/A		
5.6.5	Terminals for protective conductors	N/A		
5.6.5.1	Requirement	N/A		
	Conductor size (mm²), nominal thread diameter (mm)	N/A		
5.6.5.2	Corrosion	N/A		
5.6.6	Resistance of the protective system	N/A		
5.6.6.1	Requirements	N/A		
5.6.6.2	Test Method Resistance (Ω)	N/A		
5.6.7	Reliable earthing	N/A		
5.7	Prospective touch voltage, touch current and protective conductor current	N/A		
5.7.2	Measuring devices and networks	N/A		
5.7.2.1	Measurement of touch current	N/A		
5.7.2.2	Measurement of prospective touch voltage	N/A		
5.7.3	Equipment set-up, supply connections and earth connections	N/A		



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	System of interconnected equipment (separate connections/single connection)		_
	Multiple connections to mains (one connection at a time/simultaneous connections):		_
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current		N/A
	Supply Voltage (V)		—
	Measured current (mA)	in	—
	Instructional Safeguard	ab IIII	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	Too Los	N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA):		N/A
士讯检测图	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	古迅检测股份 Clab	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	ws份 P
6.2.2.5	PS2	(See appended table 6.2.2)	19 LabP
6.2.2.6	PS3:	All circuits inside enclosure are claimed as PS3	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:	All circuits inside enclosure are claimed as Arcing PIS	Р
6.2.3.2	Resistive PIS:	All circuits inside enclosure are claimed as Resistive PIS	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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)	Р
6.3.1 (b)	Combustible materials outside fire enclosure		Р
6.4	Safeguards against fire under single fault conditions	5	Р
6.4.1	Safeguard Method		Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	5	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS2 and PS3 circuits	19 LabP
6.4.3.1	General	122	Р
6.4.3.2	Supplementary Safeguards		Р
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions:	(See appended table 6.4.3)	Р
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	Paille
6.4.6	Control of fire spread in PS3 circuit	The res	P
6.4.7	Separation of combustible materials from a PIS	PCB rated Min. V-0 class material except for other small components made of V-2 class material.	Р
6.4.7.1	General:	(See tables 6.2.3.1 and 6.2.3.2)	Р
6.4.7.2	Separation by distance	V-0 PCB used	Р
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		Р
6.4.8.1	Fire enclosure and fire barrier material properties	V-0 fire enclosure used	P
6.4.8.2.1	Requirements for a fire barrier	No fire barrier	N/A
6.4.8.2.2	Requirements for a fire enclosure	Ved reales	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		Р
6.4.8.3.1	Fire enclosure and fire barrier openings		Р
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)		Р
	Needle Flame test		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)		N/A
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	No door and cover	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Fire enclosure is made of V-0 material	Р
6.5	Internal and external wiring	H)	N/A
6.5.1	Requirements	T IT IT IS TO STORE T	N/A
6.5.2	Cross-sectional area (mm²):	100	_
6.5.3	Requirements for interconnection to building wiring:		N/A
6.6	Safeguards against fire due to connection to additional equipment		Р
	External port limited to PS2 or complies with Clause Q.1	USB output complies with clause Q.1	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A
7.3	Ozone exposure	By Ice,	N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions:		_
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)		_
7.6	Batteries	No battery used.	N/A

8	MECHANICALLY-CAUSED INJURY General		P
8.1			
8.2	Mechanical energy source classifications	MS2	Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners	Edges and corners of the enclosure are rounded.	Р
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.5.2	Instructional Safeguard:		_
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts)	N/A
	Instructional Safeguard	ab IIII	_
8.5.4.2.3	Disconnection from the supply	100	N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability		Р
8.6.1	Product classification		P 🎤
. 10	Instructional Safeguard	. m. HA	-{/3
8.6.2	Static stability	女讲检测 Lab	N/A
8.6.2.2	Static stability test	ST LCS TO ST	N/A
	Applied Force		_
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		N/A
	Position of feet or movable parts		_
8.7	Equipment mounted to wall or ceiling	ab	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	LCS TOST	N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength		N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements	No wheels or casters	N/A



8.9.1

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N/A

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Classification



IEC 62368-1 Requirement + Test Clause Result - Remark Verdict 8.9.2 Applied force: 8.10 Carts, stands and similar carriers No carts or stands or other carriers N/A 8.10.1 N/A General 8.10.2 N/A Marking and instructions Instructional Safeguard.....: 8.10.3 Cart, stand or carrier loading test and compliance N/A Applied force 8.10.4 Cart, stand or carrier impact test N/A 8.10.5 Mechanical stability N/A Applied horizontal force (N): 8.10.6 Thermoplastic temperature stability (°C).....: N/A 8.11 N/A Mounting means for rack mounted equipment Not rack mounted 8.11.1 N/A 8.11.2 **Product Classification** N/A 8.11.3 Mechanical strength test, variable N N/A 8.11.4 Mechanical strength test 250N, including end stops N/A 8.12 Telescoping or rod antennas..... N/A No such parts. Button/Ball diameter (mm).....

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	No part considered to be accessible other than enclosure. The equipment evaluated by temperature test (see table 5.4.1.4).	Р
9.3	Safeguard against thermal energy sources	Temperature of enclosure classed as TS1.	Р
9.4	Requirements for safeguards		Р
9.4.1	Equipment safeguard	Equipment safeguard	Р
9.4.2	Instructional safeguard:	Instructional safeguard is not required	N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	RS2	Р
10.3	Protection against laser radiation	No laser	N/A
	Laser radiation that exists equipment:		



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二:五检测图	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Normal, abnormal, single-fault:		N/A	
	Instructional safeguard:		_	
	Tool:			
10.4	Protection against visible, infrared, and UV radiation		Р	
10.4.1	General		Р	
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A	
10.4.1.b)	RS3 accessible to a skilled person		N/A	
181	Personal safeguard (PPE) instructional safeguard:	LCS Test	_	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1 .:		N/A	
10.4.1.d)	Normal, abnormal, single-fault conditions:		N/A	
10.4.1.e)	Enclosure material employed as safeguard is opaque:		N/A	
10.4.1.f)	UV attenuation:		N/A	
10.4.1.g)	Materials resistant to degradation UV:		N/A	
10.4.1.h)	Enclosure containment of optical radiation:		N/A	
10.4.1.i)	Exempt Group under normal operating conditions	LED indicator light , LED lamp	PT语检测	
10.4.2	Instructional safeguard:	Instruction manual	CP	
10.5	Protection against x-radiation		N/A	
10.5.1	X- radiation energy source that exists equipment:		N/A	
	Normal, abnormal, single fault conditions		N/A	
	Equipment safeguards:		N/A	
	Instructional safeguard for skilled person::		N/A	
10.5.3	Most unfavourable supply voltage to give maximum radiation:		_	
	Abnormal and single-fault condition:	it	N/A	
	Maximum radiation (pA/kg):	立河流流	N/A	
10.6	Protection against acoustic energy sources	151 rcs in	N/A	
10.6.1	General		N/A	
10.6.2	Classification		N/A	
	Acoustic output, dB(A):		N/A	
	Output voltage, unweighted r.m.s:		N/A	
10.6.4	Protection of persons		N/A	
	Instructional safeguards:		N/A	



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IEC 62368-1 Verdict Clause Requirement + Test Result - Remark Equipment safeguard prevent ordinary person to R\$2....: Means to actively inform user of increase sound pressure.....: Equipment safeguard prevent ordinary person to RS2....:: 10.6.5 N/A Requirements for listening devices (headphones, earphones, etc.) 10.6.5.1 Corded passive listening devices with analog N/A Input voltage with 94 dB(A) L_{Aeq} acoustic pressure output.....: 10.6.5.2 Corded listening devices with digital input N/A Maximum dB(A)....: 10.6.5.3 Cordless listening device N/A Maximum dB(A)....:

В	NORMAL OPERATING CONDITION TESTS, AB CONDITION TESTS AND SINGLE FAULT COND		Р
B.2	Normal Operating Conditions	女讯检测RZ ing Lab	THE PARTIE
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	LCP es
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements:		Р
B.3.2	Covering of ventilation openings	(See appended table B.3)	Р
B.3.3	D.C. mains polarity test	n p p	N/A
B.3.4	Setting of voltage selector:	No such voltage selector	N/A
B.3.5	Maximum load at output terminals:	(See appended table B.3)	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	Р
B.4	Simulated single fault conditions		Р



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.4.2	Temperature controlling device open or short-circuited:	No such device used.	N/A
B.4.3	Motor tests	(See appended table B.3)	Р
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	(See Clause G.5)	Р
B.4.4	Short circuit of functional insulation		Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	By P
B.4.4.3	Short circuit of functional insulation on coated printed boards	Los Tes	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		Р
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		Р
B.4.9	Battery charging under single fault conditions:		Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	Till Testing Lab	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	ab	N/A
D.2	Antenna interface test generator	100	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V):		_
	Rated load impedance (Ω):		
	Audio amplifier abnormal operating conditions	 	



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
	Instructions – Language:	English instructions provided	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	See copy of marking plate	Р
F.3	Equipment markings	竹	股份P
F.3.1	Equipment marking locations	NS Testi	Р
F.3.2	Equipment identification markings	See copy of marking plate	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	_
F.3.2.2	Model identification:	See page 2 of the report	_
F.3.3	Equipment rating markings		Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage:	See copy of marking plate	
F.3.3.4	Rated voltage:	See copy of marking plate	_
F.3.3.5	Rated frequency:	See copy of marking plate	
F.3.3.6	Rated current or rated power:	See copy of marking plate	
F.3.3.7	Equipment with multiple supply connections	See copy of marking plate	N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		Р
F.3.5.1	Mains appliance outlet and socket-outlet markings:		Р
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings:	à	P
F.3.5.4	Replacement battery identification marking:	(ab	N/A
F.3.5.5	Terminal marking location	AST CCS IS	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A



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五粒测器	IEC 62368-1	工校测股份	工校测
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2.1	Class II equipment with or without functional earth	Without functional earth	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking:	IPX0	_
F.3.8	External power supply output marking	Rating marked	Р
F.3.9	Durability, legibility and permanence of marking		Р
F.3.10	Test for permanence of markings		Р
F.4	Instructions	(7)	股份P
181	a) Equipment for use in locations where children not likely to be present - marking	LCS TOST	N/A
	b) Instructions given for installation or initial use		Р
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area		N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
立讯检测图	g) Protective earthing conductor current exceeding ES 2 limits	立讯检测股份	N/A
rcs.	h) Symbols used on equipment	FA 102	N/A
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
j)	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards		N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N/A
G	COMPONENTS		服份 P
G.1	Switches	Lab IIII	N/A
G.1.1	General requirements	- FCS. rcs.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays		N/A
G.2.1	General requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
			



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.3	Protection Devices		Р
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links	Lab 上田检测	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H):		
	Single Fault Condition:		
	Test Voltage (V) and Insulation Resistance (Ω). :		_
G.3.3	PTC Thermistors	No PTC	N/A
G.3.4	Overcurrent protection devices	F1 was used	Р
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	方讯检测股份 inglab	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	I C.Ples
G.4	Connectors		Р
G.4.1	Spacings		Р
G.4.2	Mains connector configuration	AC	Р
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		Р
G.5	Wound Components		Р
G.5.1	Wire insulation in wound components		N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Physical separation is provided	N/A
G.5.1.2 b)	Construction subject to routine testing	MST LCS Test	N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s)		_
	Temperature (°C):		_
G.5.2.3	Wound Components supplied by mains		N/A



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上:A检测B	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
G.5.3	Transformers		Р	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	Transformer T1 meet the requirements given in G.5.3.2 and G.5.3.3.	Р	
	Position:	Internal circuit	_	
	Method of protection:	See G.5.3.2 and G.5.3.3.	_	
G.5.3.2	Insulation	Primary windings and secondary windings are separated by Reinforced insulation	P	
WS	Protection from displacement of windings:	MST CS Testi	_	
G.5.3.3	Overload test	(See appended table B.3)	Р	
G.5.3.3.1	Test conditions		Р	
G.5.3.3.2	Winding Temperatures testing in the unit		Р	
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A	
G.5.4	Motors		Р	
G.5.4.1	General requirements	DC FAN	Р	
	Position:	Internal circuit		
G.5.4.2	Test conditions	an Hi	Р	
G.5.4.3	Running overload test	女语性 ming Lab	N/A	
G.5.4.4	Locked-rotor overload test	Tes Ice	N/A	
	Test duration (days):			
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A	
G.5.4.5.2	Tested in the unit		N/A	
	Electric strength test (V):		_	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A	
	Electric strength test (V)			
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	ab USC CS Testi	19 LabP	
G.5.4.6.2	Tested in the unit	150	Р	
	Maximum Temperature		Р	
	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A	
	Electric strength test (V)		N/A	
G.5.4.7	Motors with capacitors		N/A	



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		Р
G.6.1	General		Р
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords	LID	N/A
G.7.1	General requirements	ab	N/A
1/19/	Туре	151 LCS Test	_
	Rated current (A)		_
	Cross-sectional area (mm²), (AWG):		
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
-u A	Strain relief test force (N):		_
G.7.3.2.2	Strain relief mechanism failure	工语型 sting Lab	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	- TE	_
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry:		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		_
	Diameter (m):		_
	Temperature (°C):		_
G.7.6	Supply wiring space	ab	N/A
G.7.6.2	Stranded wire	IST LCS Test	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.8.3.3	Temporary overvoltage:		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.		N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA:		_
G.9.1 d)	IC limiter output current (max. 5A):		
G.9.1 e)	Manufacturers' defined drift:	S	_
G.9.2	Test Program 1	ab	N/A
G.9.3	Test Program 2	1 ST LCS Test	N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.10.3.3	Impulse test	G Testins	N/A
G.11	Capacitor and RC units		Р
G.11.1	General requirements	(see appended table 4.1.2)	Р
G.11.2	Conditioning of capacitors and RC units		Р
G.11.3	Rules for selecting capacitors		Р
G.12	Optocouplers		Р
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Certificated optocouplers (PC1, PC2, PC3,PC4) were used	Р
	Type test voltage Vini:	73	_
II G	Routine test voltage, Vini,b:	I I III	_
G.13	Printed boards	1	Р
G.13.1	General requirements	Certified PCB used	Р
G.13.2	Uncoated printed boards		N/A
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A



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山田检测品	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Compliance with cemented joint requirements (Specify construction)		_	
G.13.5	Insulation between conductors on different surfaces		N/A	
	Distance through insulation		N/A	
	Number of insulation layers (pcs):		_	
G.13.6	Tests on coated printed boards		N/A	
G.13.6.1	Sample preparation and preliminary inspection	13	N/A	
G.13.6.2a)	Thermal conditioning	ab	N/A	
G.13.6.2b)	Electric strength test	150 rcs	N/A	
G.13.6.2c)	Abrasion resistance test		N/A	
G.14	Coating on components terminals		N/A	
G.14.1	Requirements:		N/A	
G.15	Liquid filled components		N/A	
G.15.1	General requirements		N/A	
G.15.2	Requirements		N/A	
G.15.3	Compliance and test methods		N/A	
G.15.3.1	Hydrostatic pressure test	可检测股份	N/A	
G.15.3.2	Creep resistance test	ST ICS Testing	N/A	
G.15.3.3	Tubing and fittings compatibility test		N/A	
G.15.3.4	Vibration test		N/A	
G.15.3.5	Thermal cycling test		N/A	
G.15.3.6	Force test		N/A	
G.15.4	Compliance		N/A	
G.16	IC including capacitor discharge function (ICX)		Р	
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours		Р	
b)	Impulse test using circuit 2 with Uc = to transient voltage	ab 工用检测	ig LabP	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	The Leavest	Р	
C2)	Test voltage		_	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A	
D2)	Capacitance:		_	
D3)	Resistance			



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山田拉河	IEC 62368-1	·····································	二四位测
Clause	Requirement + Test	Result - Remark	Verdict
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	3	N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		_
H.3.1.2	Voltage (V)	>	_
H.3.1.3		ab	_
H.3.1.4	Single fault current (mA)::	ST LCS Test	_
H.3.2	Tripping device and monitoring voltage:		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		_
J	INSULATED WINDING WIRES FOR USE WITHOU	JT INTERLEAVED INSULATION	N/A
	General requirements		N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
	1		



K.7.4

L.1

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N/A

N/A

N/A

DISCONNECT DEVICES

General requirements



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IEC 62368-1			二四检测
Clause	Requirement + Test	Result - Remark	Verdict
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells	Rechargeable Li-ion Battery	Р
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method):		Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery	(See appended table M)	Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		Р
	- Excessive discharging rate for any battery	(See appended table M)	Р
M.3.3	Compliance	(See appended tables M and M.4)	Р
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		_
M.4.2.2 b)	Single faults in charging circuitry:		_
M.4.3	Fire Enclosure		Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
M.6.1.2	Test method to simulate an internal fault		Р
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		_
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):		Р
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used:	Pollution degree 2 considered	
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	Р
	Figures O.1 to O.20 of this Annex applied:		



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Clause Requirement + Test Result - Remark Verdict

Clause	Requirement + rest	Tesuit - Itemark	Verdict
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	No openings	N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm)		_
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		_
	Tr (°C):		_
	Ta (°C)		
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing		N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		Р
	- Regulating network limited output under normal operating and simulated single fault condition		Р
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method	(see table Annex Q.1)	Р
Q.2	Test for external circuits – paired conductor cable		N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum output current (A):		_
	Current limiting method:		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)):		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm)		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		_
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_



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一:用检测图	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Wall thickness (mm)		_		
	Conditioning (test condition), (°C)		_		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A		
	After every test specimen was not consumed completely		N/A		
	After fifth flame application, flame extinguished within 1 min		N/A		
Т	MECHANICAL STRENGTH TESTS		Р		
T.1	General requirements		Р		
T.2	Steady force test, 10 N	(See appended table T.2)	Р		
T.3	Steady force test, 30 N:	Not applicable	N/A		
T.4	Steady force test, 100 N	(See appended table T.4)	Р		
T.5	Steady force test, 250 N		N/A		
T.6	Enclosure impact test		N/A		
	Fall test		N/A		
	Swing test		N/A		
T.7	Drop test	(See appended table T.7)	Р		
T.8	Stress relief test:	(See appended table T.8)	Р		
T.9	Impact Test (glass)		N/A		
T.9.1	General requirements		N/A		
T.9.2	Impact test and compliance		N/A		
	Impact energy (J):		_		
	Height (m)				
T.10	Glass fragmentation test:		N/A		
T.11	Test for telescoping or rod antennas		N/A		
	Torque value (Nm)		_		
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		N/A		
U.1	General requirements	No CRTs	N/A		
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A		
U.3	Protective Screen:		N/A		
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	Р		
V.1	Accessible parts of equipment		Р		



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可检测器	IEC 62368	-1	四位测
Clause	Requirement + Test	Result - Remark	Verdict
V.2	Accessible part criterion		Р

















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Clause	Requirement + Test	Result - Remark	Verdict

4.1.2	TABLE	List of critical con	nponents			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclo	sure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+)	Thickness min. 1.5mm, V-0, 85°C	UL94, UL746C,	UL E162823
PCB(Main board)		Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
PCB (Protective board)		Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL Lab
ADAPTER		Shenzhen Liankelilong Electronic Technology Co., Ltd	LK150-2000500	Input: 100V~, 50/60Hz, 1.6A Output: 22Vdc, 5A	IEC/EN/UL 62368-1	UL
AC socket-or	utlets	RONG FENG INDUSTRIAL CO LTD	E-08	250Vac, 16A	UL 498 DIN VDE 0620-1 (VDE 0620- 1):2016-01	UL E95905 VDE
FUSE	(村) Lab	NANJING SART SCIENCE & TECHNOLOGY DEVELOPMENT CO LTD	S6125-M2-3.5A	250VAC, 3.5A	UL 248-1 UL 248-14 DIN VDE 0635:1984-02	UL E319512 VDE
Internal Wire (Battery	/)	Interchangeable	Interchangeable	Min. 300V, Min. 16AWG, Min. 80°C	UL758	UL
Internal wire (For AC outp	out)	Interchangeable	Interchangeable	Min. 300V, Min. 18AWG, Min. 80°C	UL758	UL
X. Capacitor	立语检测 LCS Test	Changzhou Dejie Photoelectric Technology Co., Ltd.	MPX/MKP	250V~, 0.22μF, 100°C	EN/UL 60384-14	UL E339764 VDE
Transformer		HORANS ELECTRONICS	ER42-1000-230-2	Class B	IEC/EN/UL 62368-1	Tested with appliance
- Bobbin		SUMITOMO BAKELITE CO.,LTD	PM-9823、 PM9820	Phenolic,150°C	UL94,UL746	UL E41429



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Clause

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Clause	rtequiren	Requirement + Test			dit - Remark Verdict		
- Wire	CHENGDU SOUTHWEST ELECTRICAL GROUP CO., LTD	UEW	POLYURETHAN E ENAMELLED COPPER WIRE 130°C	UL1446	UL E178366		
-Tube	CHANGYUAN ELECTRONICS GROUP CO LT		200°C	UL224	UL E180908		
- Tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD	WF* (c)(h)	130°C	UL510	UL E165111		
- VARNISH	SUZHOU TAIH ELECTRIC ADVANCED MATERIAL CO LTD		155°C	UL1446	UL E228349		
Y-capacitor	SOUTH HONGMING ELECTRONIC SCIENCE &		IEC/EN/UL 60384-14	UL E154899			
Opto-coupler	Everlight Electronics Co. Ltd.	EL357N V	Reinforce insulation, Dti≥0.4mm, Ext. Cr./cl ≥5.0mm, 100°C	UL 1577, IEC/EN/UL 60747-5-5	UL E214129 VDE 132249		
DC Fan	Shenzhen Ming Yixin Electronic Technology Co LTD		DC12V,0.5A	IEC/EN/UL 62368-1	Tested with appliance		
Lithium-Ion battery cell	Jiangxi Jiuding- Power New Energy Technology Co Ltd	2500mAh	3.6V,2500mAh	IEC 62133-2	Report No.: 20PNC0300 10 01 001		

Supplementary information:



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 $^{^{1)}\,\}mbox{Provided}$ evidence ensures the agreed level of compliance. See OD-CB2039.





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4.8.4, 4.8.5	N/A			
(The follow	ring mechanica	I tests are conducted in the seque	nce noted.)	
4.8.4.2	TABLE: Str	ess Relief test		_
i	Part	Material	Oven Temperature (°C)	Comments
4.8.4.3	TABLE: Ba	ttery replacement test	~ 测股份	_
Battery pa	rt no		asting Lab	_
Battery Ins	stallation/withd	rawal	Battery Installation/Removal Cycle	Comments
			1	
			2	
			3	
			4	
			5	
			6	1 10 10 11 11 11 11 11 11 11 11 11 11 1
			15 105 To 8 Ins	NST CS Testin
			9	132
			10	
4.8.4.4	TABLE: Dro	p test		_
Impact Are	ea	Drop Distance	Drop No.	Observations
			1	
			2	
	ar li		3	. nr. 4A
4.8.4.5	TABLE: Imp	pact	立 jiing Lab	_
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
4.8.4.6	TABLE: Cru	ush test	•	_
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)
		1	1	



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4.8.4, TABLE: Lithium coin/button cell batteries mechanical tests N/A

4.8.5 TABLE: Lithium coin/button cell batteries mechanical test result

N/A

Test position
Surface tested
Force (N)
Duration force applied (s)

-- -- -- -- -
Supplementary information:

5.2	Table: 0	Table: Classification of electrical energy sources					
5.2.2.2	2 – Steady Stat	e Voltage and Cu	rrent conditions				
		Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk) (Apk or A	rms) Hz	ES Class
1.	24Vd.c.	Internal circuits	Normal	24Vd.c. Max	西域测度份		T ACTION TO
TLCS	Testing Lab	WS 12	Abnormal	VS II	STesting La-	We	ES1
		1	Single fault – SC/OC	122		772	
2.	21.6Vd.c	Battery	Normal	24.5Vd.c. Ma	x		
			Abnormal				ES1
			Single fault – SC/OC				
5.2.2.3	3 - Capacitance	Limits			1	<u> </u>	
	Supply	Location (e.g.			Parameters		
No.	Voltage	circuit designation)	Test conditions	Capacitance	, nF	Upk (V)	ES Class
1	LCS Test	<u>ua</u>	Normal	5-Testing L		KST CS Test	100
			Single fault – OC XR1				
5.2.2.4	- Single Pulse	s					
	Supply	Location (e.g.			Parameters		
No.	Voltage	circuit designation)	Test conditions	est conditions Duration (ms) Upk (V)		lpk (mA)	ES Class
			Normal				
			Abnormal	bnormal			



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Clause

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Result - Remark

Verdict

		Single fault – SC/OC	 	

5.2.2.5 - Repetitive Pulses

	0	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
			Normal				
		. 115	Abnormal	05			15
	WSG TH松	ing Lab	Single fault – SC/OC	开检测版》 STesting Lab		Tin检测	g Lab

Test Conditions:

Normal -

Abnormal -

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

Requirement + Test

5.4.1.4, 6.3.2, 9.0, B.2.6	ТА	BLE: Temperature measurements	Р		
· 古讯检测 ^R	及份	Supply voltage (V):	24Vd.c. (Battery charging)	21.6Vd.c. (Full Battery discharging)	_
LCSTestin		Ambient T _{min} (°C):	See below	See below	_
		Ambient T _{max} (°C):			_
		Tma (°C):			_
Maximum n	neas	sured temperature T of part/at:	T (°0	C)	Allowed T _{max} (°C)
Input wire			53.7	54.8	80
EC1 body			77.5	77.8	105
EC2 body			78.3	78.0	105
PCB near L	J1	-1825 (F)	72.4	74.0	130
LF1 winding	g _t V	A Ming Lab	89.1	91.3	130
L2 winding	LC:	1/8	87.3		130
PCB near L	J3		67.3	67.8	130
T1 winding			75.5	76.7	110
T1 core			72.9	73.8	110
T2 winding			76.0	76.9	110
T2 core			73.2	73.8	110
CY1 body			67.8	68.5	125



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PCB near Q1		65.6	66.3	130	
PC1 body		66.0	66.7	100	
PCB near U5		63.3	64.1	130	
EC10 body		63.4	64.0	105	
EC12 body		65.3	66.4	105	
PCB near U6		67.7	68.8	130	
Internal wire		46.4	46.7	80	
Battery surface	173 1 a b	40.8	42.3	Ref.	
DC Fan	NSA	47.7	49.1	Ref.	
Plastic enclosure insid	de near battery	43.2	43.7	90	
Ambient		40.0	40.0		
Plastic enclosure outs	side near battery	26.4	26.8	77	
DC button		27.0	27.3	77	

Supplementary information:

AC outlet

Ambient

Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulatio class
E-TCS Test	CS Test		Men	CS Test			TCS Tes

27.1

25.0

27.5

25.0

77

Supplementary information:

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

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

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics			
Penetration	(mm):			_
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)
	+ 選権測限で → 選権	Miss 17	二. 报检测	ME In
supplementa	ary information:	estille	151 LCS Testi	lia



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5.4.1.10.3	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
Allowed imp	oression diameter	(mm):	≤ 2 mm		_	
Object/Part	Object/Part No./Material Manufacturer/trademark		Test temperature (°C)	Impression dia	meter (mm)	
Supplement	ary information:	•				

Supplementary information:

Test repeated for all alternative materials, same results obtained.

5.4.2.2, 5.4.2.4 and 5.4.3	earance	es/Creepa	ge distance	p	W.	立 LCS Testi	R VIII
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
Primary circuit to secondary circuit	340	240	0.06	3.0	7.7	4.8	7.7
Primary circuit to plastic enclosure	340	240	0.06	3.0	5.3	4.8	5.3
Transformer T1: Input winding to output winding	353	236	0.06	3.0	5.6	4.8	5.6
Input winding of T1 to core of T1	353	236	0.06	1.5	3.7	2.4	3.7
Output winding of T1 to core of T1	353	236	0.06	1.5	3.5	2.4	3.5
Transformer T2: Input winding to output winding	357	238	0.06	3.0	5.6	4.8	5.6
Input winding of T2 to core of T2	357	238	0.06	1.5	3.7	2.4	3.7
Output winding of T2 to core of T2	357	238	0.06	1.5	3.5	2.4	3.5
CY1 primary pin to secondary pin	340	240	0.06	3.0	7.2	4.8	7.2
CY2 primary pin to secondary pin	340	240	0.06	3.0	7.2	4.8	7.2
CY3 primary pin to secondary pin	340	240	0.06	3.0	7.2	4.8	7.2
PC1 primary pin to secondary pin	340	240	0.06	3.0	7.1	4.8	7.1
PC2 primary pin to secondary pin	340	240	0.06	3.0	7.1	4.8	7.1
PC3 primary pin to secondary pin	340	240	0.06	3.0	7.1	4.8	7.1
PC4 primary pin to secondary pin	340	240	0.06	3.0	7.1	4.8	7.1

Supplementary information:

Note 1: Only for frequency above 30 kHz.

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



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C 62368-1	一绘测股份	A UT: AL

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Clause	Requirement + Test	Result - Remark	Verdict

Note 3: Provide Material Group.

5.4.2.3	TABLE: Minimum Clear	Р				
	Overvoltage Category (OV):					
	Pollution Degree:					
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mn		
See table 5.4.2.2, 5.4.2.4 and 5.4.3 above.		- 女讯检测图	Lab		讯检测股份	
Suppleme	entary information:	LCS TO STATE		MSI L	CS T ESTITION	

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltage	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdo Yes / N		
Supplementary information:						

- all BE	\$ \footnote{17}	THE STATE OF		-mi 183	177	-au B
5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	stance through insulati	ion measurem	ents Till Marketing		TCS Testin
Distance thr insulation di	•	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Plastic enclo	osure	340	0.06	See table 4.1.2	0.4	See table 4.1.2
Insulation ta	ipe	340	0.06	Polyethylene	See only 5.4.4.9	See only 5.4.4.9
Bobbin (T1)		353	0.06	Phenolic	0.4	0.75
Bobbin (T2)	ar 44	357	0.06	Phenolic	0.4	0.75
Supplement	ary information	n:	古语情情的 LingL	da	打汗	位 ing Lab



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5.4.9	TABLE: Electric strength tests			Р	
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	
Functional	:				
Basic/supp	olementary:				
Transforme	er T1: Input winding to core	DC	2500Vpk	No	
Transformer T1: core to output winding		DC Comments	2500Vpk	No	
Transformer T2: Input winding to core		DC	2500Vpk	No	
Transformer T2: core to output winding		DC	2500Vpk	No	
Reinforced	d:				
DC input to	o AC output	DC	4000Vpk	No	
AC output with metal	circuit to plastic enclosure (wrapped foil)	DC	4000Vpk	No	
AC output	circuit to USB port	DC	4000Vpk	No	
Transformer T1: Input winding to output winding		DC	4000Vpk	No	
Transforme	er T2: Input winding to output winding	DC	4000Vpk	No	
One layer i	insulation tape	DC VS	4000Vpk	No No	
Suppleme	ntary information:	1			

5.5.2.2	TABLE: Sto	ored discharg	e on capacito	ors			N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification
X-capacito	ntary informat rs installed fo ng resistor rat	r testing are:					
Notes: A. Test Lo	cation:						
B. Operati	ng condition a	abbreviations:	·	ind/or Neutral t	o Earth e); S –Single fault cond	dition	



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Clause	Requirement + Test	Result - Remark	Verdict

5.6.6.2	TABLE: Resistance of protective conductors and terminations						
,	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Res	sistance (Ω)	
Supplemen	ntary information:	1	1	1	ı		

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductiv	re part	N/A
Supply volt	age	:	_
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		1	
		2*	
		3	
		4,00,45	E line
		Tillie 5ng Lab	立语语···································
		6	Top res
		8	

Supplementary Information:

Notes:

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



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6.2.2	Table: Electrica	l power sources	Р			
Source Descriptio		ription Measurement Max Power after 3 s Max Power af		Max Power after 5 s*)	PS Classification	
AC Output	Normal	Power (W) :		>100W		
		V _A (V) :			PS3 (declaration)	
		I _A (A) :			(declaration)	
USB-A2	Normal	Power (W) :	17.84	17.84	(本) 服股份	
Output	· Testing Lab	VA (V) :	5.10	5.10	PS2	
(5V)	.00	IA (A) :	3.62	3.62		
USB-A2	Normal	Power (W) :	23.25	23.25		
Output		VA (V) :	9.06	9.06	PS2	
(9V)		IA (A) :	2.45	2.45		
USB-A2	Normal	Power (W) :	24.42	24.42		
Output		VA (V) :	12.05	12.05	PS2	
(12V)		IA (A) :	1.87	1.87		
USB-A2	Normal	Power (W) :	24.34	24.34		
Output	ab	VA (V) :	20.14	20.14	PS2	
(20V)		IA (A) :	1.34	1.34	1 LCS Testi	
USB-A1	Normal	Power (W) :	14.56			
Output		VA (V) :	5.03		PS1	
		IA (A) :	2.72			
USB-C	Normal	Power (W) :	18.67	18.67		
Output (5V)		V _A (V) :	5.12	5.12	PS2	
(3 V)		I _A (A) :	3.45	3.45		
USB-C	Normal	Power (W) :	30.24	30.24		
Output (9V)	40 测股份	V _A (V) :	9.04	9.04	PS2	
(90)	· Testing Lab	I _A (A) :	3.43	3.43	HALL Lab	
USB-C	Normal	Power (W) :	40.93	40.93		
Output		V _A (V) :	12.04	12.04	PS2	
(12V)		I _A (A) :	3.46	3.46]	
USB-C	Normal	Power (W) :	49.36	49.36		
Output		V _A (V) :	15.12	15.12	PS2	
(15V)		I _A (A) :	3.34	3.34		
USB-C	Normal	Power (W) :	66.69	66.69	PS2	



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Clause	F	Requirement + Test	1	Result - Remark	Verdict		
Output		V _A (V) :	20.12	20.12			
(20V)		I _A (A) :	3.36	3.36			
DC Output	Normal	Power (W) :	>100W	>100W			
		V _A (V) :			PS3 (declaration)		
		I _A (A) :			(doolaration)		
Full Battery	Normal	Power (W) :	>100W	>100W			
	- 112	V _A (V) :	a th		PS3 (declaration)		
	(松测度)	I _A (A) :	· 活龙河	ab	(doolaration)		
Wireless	Normal	Power (W) :	16.12	16.12	CS Testins		
output		V _A (V) :	12.12	12.12	PS2		

1.33

Supplementary Information:

SC=short circuit

#: Unit shut-down immediately, recoverable, no hazard.

 $I_A(A)$

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS?		
All prima	ary circuits / parts				Yes (declaration)		

Supplementary information:

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

6.2.3.2	Table: Det	Table: Determination of Potential Ignition Sources (Resistive PIS)							
Circuit Loc	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No			
	al circuits / rts					Yes (declaration)			



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· 用检测股份	IEC 62368	3-1	1. 五检测器
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary Information:

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

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

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

8.5.5	TABLE: High Pressure Lamp	于语位测度 Lab	N/A
Description	n e	Values	Energy Source Classification
Lamp type	9:		_
Manufacti	urer:		_
Cat no	· · ·		_
Pressure	(cold) (MPa):		MS_
Pressure	(operating) (MPa):		MS_
Operating	time (minutes):		_
Explosion	method:		_
Max partio	cle length escaping enclosure (mm) .:	4 测股份	MS_
Max partio	cle length beyond 1 m (mm):	Till Paring La	MS_ MS_
Overall re	sult		The Local Designation of the Local Designation
Suppleme	entary information:		

B.2.5	TABLE: Input test								
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status	
24Vd.c.	4.90	5.0	117.6				Empty Ba Charging	ttery	
24.5Vd.c.	24.5		600.25	可檢測股份			Full Batter Dischargin		

Supplementary information:

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



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Clause	e Requirement + Test Result - Remark					ark	Verdict			
B.3 1	TABLE: Abnormal operating condition tests									
Ambient temperature (°C)										
Power source	for EUT	: Manuf	acturer, model	/type, out	out rating	:	See	page 2 for o	letails	_
Component N		ormal dition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse curre (A)		T-couple	Temp. (°C)	Observatio n
USB-A2 Outp (20V)	ut OL		21.6Vd.c.	2hrs 20mins	F1	24.6	7	Type J	T1 winding: 79.4°C; T1 core: 77.6°C; T2 winding: 79.8°C; T2 core: 77.5°C; Enclosure outside near battery: 40.9°C; Ambient: 25.0°C	Max load to 3.36A, when exceed it unit shut down, no hazard, no damage.
USB-C Output(20V)	OL		21.6Vd.c.	5hrs 20mins	F1	24.7	8	Type J	T1 winding: 84.5°C; T1 core: 82.2°C; T2 winding: 81.8°C; T2 core: 79.8°C; Enclosure outside near battery: 43.0°C; Ambient:	Max load to 1.34A, when exceed it unit shut down, no hazard, no damage.



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可检测股份	IEC 62368	3-1	可檢測
Clause	Requirement + Test	Result - Remark	Verdict

B.3	TAE	BLE: Abnorm	nal operating	condition	tests					Р
Ambient ter	mpera	ture (°C)				:	See b	oelow		
Power sour	ce for	· EUT: Manuf	acturer, model	/type, outp	out rating	:	See p	page 2 for d	letails	_
Component	t No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse curre (A)		T-couple	Temp. (°C)	Observatio n
Wireless ou	utput	OL	21.6Vd.c.	5hrs 20mins	F1	24.5	3	Type J	T1 winding: 76.0°C; T1 core: 74.7°C; T2 winding: 77.8°C; T2 core: 76.4°C; Enclosure outside near battery: 42.6°C; Ambient: 25.0°C	Max output power is 16.12W, when exceed it unit shut down, no hazard, no damage.
USB-A1 Ou (5V)	ıtput	OL	21.6Vd.c.	5hrs 20mins	F1	24.5	1	Type J	T1 winding: 79.6°C; T1 core: 77.6°C; T2 winding: 79.6°C; T2 core: 77.2°C; Enclosure outside near battery: 40.4°C; Ambient: 25.0°C	Max load to 2.72A, when exceed it unit shut down, no hazard, no damage.



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四檢測股份	IEC 6236	8-1	元於测 图
Clause	Requirement + Test	Result - Remark	Verdict

B.3	TABLE: Abno	rmal operating	condition	tests					Р
Ambient temp	perature (°C).				:	See b	elow		_
Power source	e for EUT: Mar	nufacturer, mode	l/type, outp	out rating	:	See p	age 2 for c	letails	_
Component N	No. Abnorma Condition		Test time (ms)	Fuse no.	Fuse curre (A)		T-couple	Temp. (°C)	Observatio n
Opening	Blocked	21.6Vd.c.	5hrs 24mins	F1	24.5		Type J	T1 winding: 80.4°C; T1 core: 78.0°C; T2 winding: 79.8°C; T2 core: 78.1°C; Enclosure outside near battery: 42.3°C; Ambient: 25.0°C	Unit working nornal, no hazard, no damage.

Supplementary information:

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

OL: overload

B.4 T	ABLE: Fault c	ABLE: Fault condition tests								
Ambient temp	erature (°C)				.:	25.0				_
Power source for EUT: Manufacturer, model/type, output rating .: See page 2 for details								_		
Component N	Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fus- curr (A)		' '			servation
Empty Battery	charging									
U1 pin 2-4	SC	24Vd.c.	10mins	F1	0.00)2			do red Aft da	it shut wn, coverable. er test, no mage, no zard.



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可检测股份		. m 16	IEC	62368-1	T Y	证则股份		可检测图
Clause		Requirement + Test			I ST LCS T	Result - Remark		
R4	SC	24Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.
Battery B-~P- (Battery overcharging)	SC	24Vd.c.	7hrs	F1	4.94			The product worked as normal. Max continuous charging current was 4.93A. No chemicals leak, explosion, molten metal emission or expulsion observed.
DC FAN motor	Locked	21.6Vd.c.	7h	F1	24.5	Type J	T1 winding : 81.5°C; T1 core: 78.6°C; T2 winding : 81.2°C; T2 core: 78.4°C; Enclosu re outside near battery: 42.9°C; Ambien t: 25.0°C	Unit worked as normally except for DC FAN stopped. After test, no damage, no hazard.
USB-C Output	SC	21.6Vd.c.	10mins	F1	0.002			USB-C Output shut down, recoverable. After test, no damage, no hazard.



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上五位测股份		二四位了	IEC	62368-1	- : A M	·利服份		二四位测用		
Clause	Clause Re		Requirement + Test			Result - Re	Verdict			
USB-A1 Output	SC	21.6Vd.c.	10mins	F1	0.002			USB-A1 Output shut down, recoverable. After test, no damage, no hazard.		
USB-A2 Output	SC	21.6Vd.c.	10mins	F1	0.002			USB-A2 Output shut down, recoverable. After test, no damage, no hazard.		
DC Output	SC	21.6Vd.c.	10mins	F1	0.002			DC Output shut down, recoverable. After test, no damage, no hazard.		
T1 pin 2-4	SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.		
T1 pin 5-7	SC	21.6Vd.c.	10mins	F1				Unit shut down, recoverable. After test, no damage, no hazard.		
T1 pin 9-11	SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.		
T2 pin 2-4	SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.		
T2 pin 5-7	SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.		







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	- A	IEC	62368-1	-14			
	Requirement +	- Test		IST LCS T	Result - R	emark	Verdict
SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.
SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.
SC	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.
oc	21.6Vd.c.	10mins	F1	0.002			Unit shut down, recoverable. After test, no damage, no hazard.
SC	21.6Vd.c.	10mins	F1	0.002			Fuse opened, recoverable. After test, no damage, no hazard.
SC	21.6Vd.c.	10mins	F1	0.002			Fuse opened, recoverable. After test, no damage, no hazard.
SC	21.6Vd.c.	10mins	F1	25.2			The product worked as normal. Max continuous discharging current was 25.2A. No chemicals leak, explosion, molten metal emission or expulsion observed.
	SC SC SC	SC 21.6Vd.c. SC 21.6Vd.c. SC 21.6Vd.c. OC 21.6Vd.c. SC 21.6Vd.c.	Requirement + Test SC 21.6Vd.c. 10mins SC 21.6Vd.c. 10mins	Requirement + Test SC 21.6Vd.c. 10mins F1 SC 21.6Vd.c. 10mins F1	SC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002 OC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002	Requirement + Test Result - R SC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002	Requirement + Test Result - Remark SC 21.6Vd.c. 10mins F1 0.002 SC 21.6Vd.c. 10mins F1 0.002



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Requirement + Test



Clause

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Result - Remark

Verdict

Annex M TABLE: Batteries				
The tests of Annex M are applicable only when appropriate battery data is not available				
Is it possible	e to install the battery in a reverse polarity position?	No possible		

	Non-re	chargeable	e batteries	Rechargeable batteries							
	Disch	arging	Un-	Charging		Dischargi		Reverse	ed charging		
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.		
Max. current during normal condition	检测报价 Testing Lab			4.90A	26.2A	24.5A	26.2A	Lin 校测 R Los Testin	Lab		
Max. current during fault condition				4.93A (Battery B-~P- SC)	26.2A	25.2A (Battery B-~P- SC)	26.2A				

Test results:		Verdict
- Chemical leaks	No hazard	Р
- Explosion of the battery	No hazard	Р
- Emission of flame or expulsion of molten metal	No hazard	P
- Electric strength tests of equipment after completion of tests	0	N/A
Supplementary information:	1//2	LCS !

Supplementary information:









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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict

Annex M.4 Table: Ac batteries	ditional safeguards for equ	uipment cont	aining secondar	y lithium	Р
Battery/Cell No.	Test conditions		Measurements		Observation
NO.		U (V)	I (A)	Temp (C)	
Battery	Normal	24.5	4.90	42.8	No fire or explosion (other than venting) of secondary lithium battery shall occur. The charging voltage shall no exceed maximum specified charging voltage. The charging current shall not exceed maximum specified charging current.
	Abnormal	\	LCS_Teel		Val Cales
Tin 检测器 LCS Testing		24.5	4.93	42.7	No fire or explosion (othe than venting) or secondary lithium battery shall occur. The charging voltage shall no exceed maximum specified charging voltage. The charging current shall not exceed maximum specified charging current.
Supplementary Informa					
Battery identification	narging at Observa T _{lowest} (°C)	ation	Charging at T _{highest} (°C)	Obs	ervation



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Clause	Requirement + Test	Result - Remark	Verdict				

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Battery	0	When the battery temperature reduction to 0.4°C, Unit stop charging	45	When the battery temperature reduction to 44.3°C, Unit stop charging
Supplementary In	formation:			

Annex Q.1	TABLE: Circuits inte	nded for interco	onnection with	building wiring	g (LPS)	i测版功P asting Lab
Note: Meas	sured UOC (V) with all lo	ad circuits disco	nnected:		100	•
Output	Components	U _{oc} (V)	I _{sc}	(A)	S ('	VA)
Circuit			Meas.	Limit	Meas.	Limit
USB-A2 Output (5V)	Normal	5.10	3.62	8	17.84	100
USB-A2 Output (9V)	Normal	9.06	2.45	8	23.25	100
USB-A2 Output (12V)	Normal	12.05	1.87	Till 8 mg La	24.42	100
USB-A2 Output (20V)	Normal	20.14	1.34	8	24.34	100
USB-A2 Output	C22 SC	0	0	8	0	100
USB-A1 Output	Normal	5.03	3.45	8	14.56	100
USB-A1 Output	C21 SC	0	0	8	0	100
USB-C Output (5V)	Normal	5.12	3.45	8	18.67	100
USB-C Output (9V)	Normal	9.04	3.43	8	30.24	100
USB-C Output (12V)	Normal	12.04	3.46	8	40.93	100





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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict USB-C Output Normal 15.12 3.34 8 49.36 100 (15V) USB-C Output 66.69 100 Normal 20.12 3.36 8 (20V) USB-C C34 SC 0 8 0 0 100 Output Wireless Normal 12.12 1.33 8 16.12 100 output Wireless C54 SC 0 8 0 0 100 output

Supplementary Information:

SC=Short circuit

T.2, T.3, T.4, T.5	TABL	E: Steady force to	est				Р
Part/Loca	tion	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
Internal pa	arts	151	讯检测度200 OS Testing Lab	10	用检测版》 S Testin 5 Lab		remained ack/opening oped.
Enclosure /	/ Тор	Plastic/metal	Min. 1.5	100	5		remained ack/opening oped.
Enclosur Bottom		Plastic/metal	Min. 1.5	100	5	Enclosure intact, no cra devel	
Enclosure /	'Side	Plastic	Min. 1.5	100	5	Enclosure remained intact, no crack/openir developed.	
Supplement	ary info	ormation:		一里好份		. Iliza	船份

				TOST		
T.6, T.9 TAB	LE: Impact tests	184	C2 .	- Top I Cop .	N/A	
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation		
Supplementary information:						



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可检测股份	IEC 6236	8-1	加拉那
Clause	Requirement + Test	Result - Remark	Verdict

T.7 T	ABLE: Drop tests				Р
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Enclosure / To	Plastic/metal	Min. 1.5	1000	Enclosure remained inta crack/opening develop	•
Enclosure / Bottom	Plastic/metal	Min. 1.5	1000	Enclosure remained intact, no crack/opening developed.	
Enclosure / Sid	e Plastic	Min. 1.5	1000	Enclosure remained inta crack/opening develop	•
Supplementary	information:		古讯检测 Lab	一寸讯位测	ng Lab

T.8 TABLE: Stress relief test							Р
Part/Loca	tion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
Whole u	nit	Plastic	Min. 1.5	70	7.0	Enclosure i intact, no cra develo	ck/opening

Supplementary information:



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Attachment No .1

IEC62368_1D - ATTACHMENT

REPORT NO.: LCSA110122122S

Result - Remark Verdict Clause Requirement + Test

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

CENELEC COMMON MODIFICATIONS (EN)

Attachment Form No..... EU_GD_IEC62368_1D

Attachment Originator: Intertek Semko AB

Master Attachment..... Date 2021-02-04

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	OLIVELEO C			(LIV)			
		oclauses, notes 62368-1:2014		res and annexes	s which are a	dditional to	Р
CONTENTS	Add the follo	wing annexes:					Р
立讯检测股份 LCS Testing Lab	Annex ZA (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative)		Normative references to international publications with their corresponding European publications Special national conditions A-deviations IEC and CENELEC code designations for flexible cords				立讯检测 LCS Testin
	Delete all the "country" notes in the reference document (IEC 62368-1:2014) according to the following list:						Р
	0.2.1	Note	1	Note 3	4.1.15	Note	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	欧
VSI TIV	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	ing rap
100	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	
	For special r	national condition	ons, see An	nex ZB.			Р



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Attachment No. 1

	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
1	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.		Р
4.Z1	Add the following new subclause after 4.9:	Considered.	Р
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	LCS Test	设价 ng Lab
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;		
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;		
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	立形位测度份 LCS Testing Lab	立讯检测 LCS Tost
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		
5.4.2.3.2.4	Add the following to the end of this subclause:	No external circuit.	N/A
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		IIX
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No radiation.	N/A



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Attachment No. 1

	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:		
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	TITAL TITAL	illi 股份 est 19 Lab
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.		
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	an All	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	立语於測版 LCS Testing Lab	Tin to Testi
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		B
10.6.1	Add the following paragraph to the end of the subclause:		N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	TET TENT	i测设份 sst ng Lab
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body-mounted devices, attention is drawn to EN 50360 and EN 50566		
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	115	



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		IEC62368_1D - ATTAC	CHMENT			
Clause	Requirement + Te	est	Result - Remark	Verdict		
Bibliography	Add the following	standards:		N/A		
	Add the following	notes for the standards indicated:				
	IEC 60130-9	NOTE Harmonized as EN 6013	0-9.			
	IEC 60269-2	NOTE Harmonized as HD 6026	9-2.			
	IEC 60309-1	NOTE Harmonized as EN 6030	9-1.			
	IEC 60364	NOTE some parts harmonized i	n HD 384/HD 60364 series.			
	IEC 60601-2-4	NOTE Harmonized as EN 6060	1-2-4.	or. 43		
	IEC 60664-5	NOTE Harmonized as EN 60664	1-5.	MX rab		
	IEC 61032:1997	NOTE Harmonized as EN 61032	2:1998 (not modified).	Ilia		
	IEC 61508-1	NOTE Harmonized as EN 61508	3-1.			
	IEC 61558-2-1	NOTE Harmonized as EN 61558	3-2-1.			
	IEC 61558-2-4	NOTE Harmonized as EN 61558	3-2-4.			
	IEC 61558-2-6	NOTE Harmonized as EN 61558	3-2-6.			
	IEC 61643-1	NOTE Harmonized as EN 61643	3-1.			
	IEC 61643-21	NOTE Harmonized as EN 61643	3-21.			
	IEC 61643-311 NOTE Harmonized as EN 61643-311.					
	IEC 61643-321 NOTE Harmonized as EN 61643-321.					
	IEC 61643-331	NOTE Harmonized as EN 61643	3-331.			
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITIONS	(EN)	Pail		
4.1.15	Denmark, Finlan	d, Norway and Sweden	I CS Testiny	Pres		
	To the end of the	subclause the following is added:	12			
	connection to othe safety relies on co surge suppressor network terminals marking stating th	e equipment type A intended for er equipment or a network shall, if onnection to reliable earthing or if is are connected between the and accessible parts, have a lat the equipment shall be earthed mains socket-outlet.				
	The marking text as follows:	in the applicable countries shall be				
		paratets stikprop skal tilsluttes en ord som giver forbindelse til	LCS Test	股份 Ing Lab		
	In Finland : "Laite varustettuun pisto	on liitettävä suojakoskettimilla rasiaan"	157 LCS Tes			
	In Norway : "Appa stikkontakt"	ratet må tilkoples jordet				
	In Sweden : "Appa uttag"	araten skall anslutas till jordat				



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1,05	IEC62368 1D - ATTAC	PHMENT	Wed Top
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	TE IC	N/A













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	IEC62368_1D - ATTAC	HMENT	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1 and Annex G	Finland and Sweden		N/A
	To the end of the subclause the following is added:		
	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	two layers of thin sheet material, each of which shall pass the electric strength test below, or		10000000000000000000000000000000000000
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	1	LCS Testing Lab
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and	女讯检测股份	Till to
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	LCS Testing	TEL ICE LA
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384- 14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		n lik
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	15	工讯检测股份 LCS Testing Lab
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	13	100
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		



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	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		N/A
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	LCS Test	N/A
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: — the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	女讯检测股份	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	Tes tosum	N/A
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A



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	IEC62368_1D - ATTA	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.		一讯检测股份
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	181	LCS Testing Lab
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-	立讯检测股份 LCS Testing Lab	LCS TOST
	11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		- 100
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	189	立讯检测股份 LCS Testing Lab
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och	. an Hì	
	kabel-TV nätet.".	14.11111111111111111111111111111111111	



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	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.		N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	Les Les	N/A
G.4.2	Denmark		N/A
	To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	立讯检测度份 LCS Testing Lab	立 TELCS Testi
TE TO	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a Justification: Heavy Current Regulations, Section 6c	TE TES	检测股份 Testing Lab



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	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	· 江台河	N/A
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	TET LCS Test	N/A
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	rcs , es	N/A
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	TST TTiTI位测	N/A





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	VST CS VS		
	IEC62368_1D - ATTAC	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		Р
10.5.2	Germany		N/A
	The following requirement applies:		
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.		股份
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	LCS Test	ng Lab
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		

Before placing the products in the different countries, the manufacturer must ensure that: Note:

- Operating Instructions, Ratings Labels and Warnings Labels written in an Accepted or Official Language of the county in question.
- 2. The equipment complies with the National Standards and/or Electrical Codes of the country in
- 3. Mains plugs and power cordset should be assessed to the national standard.







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Attachment No. 2

Details of: External View



Details of: External View





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Details of:

External View



Details of: Internal View





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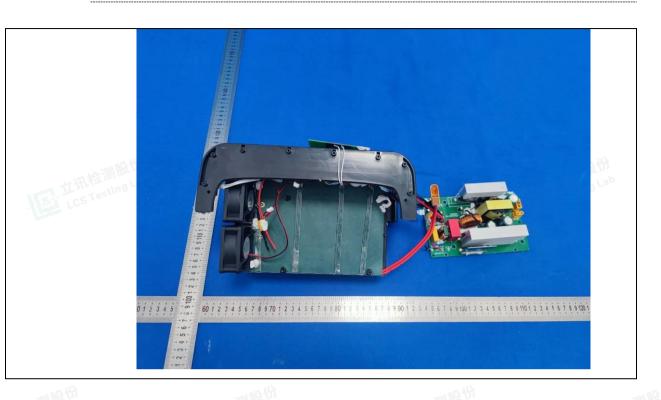


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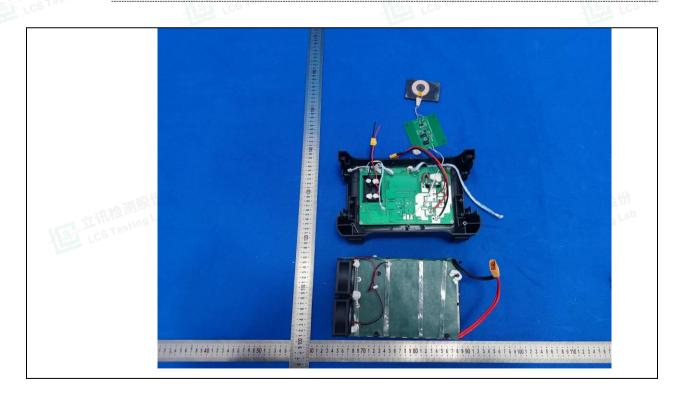
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Details of:

Internal View



Details of: Internal View





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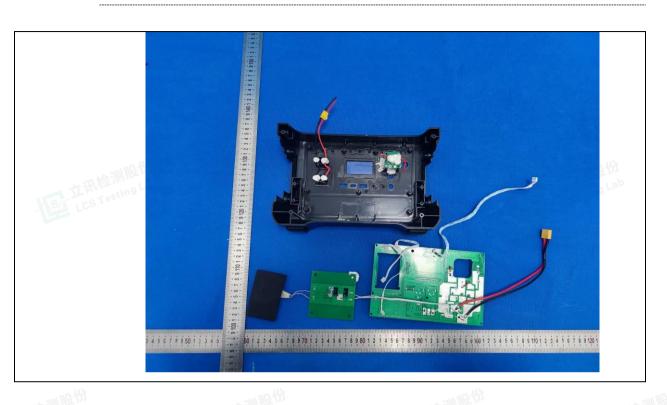


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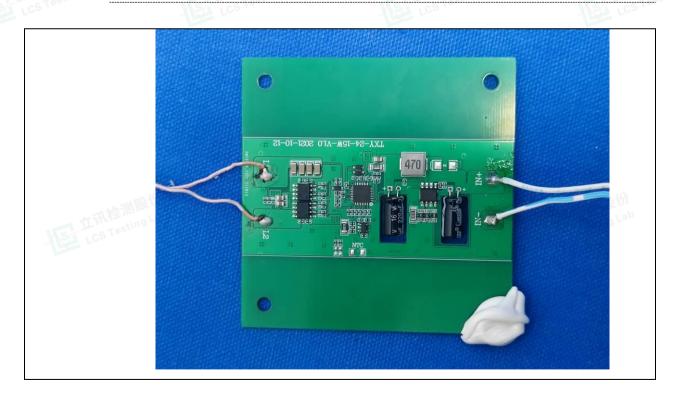
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Details of:

Internal View



Details of: PCB View





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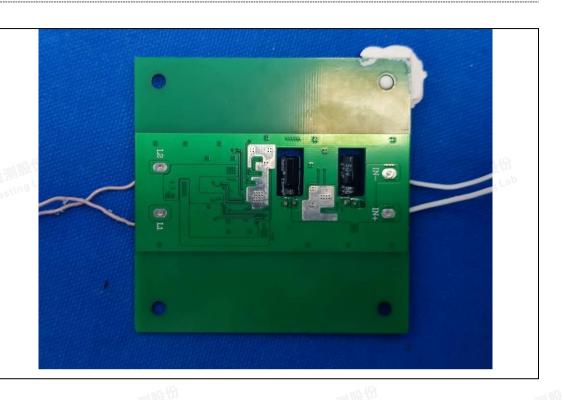
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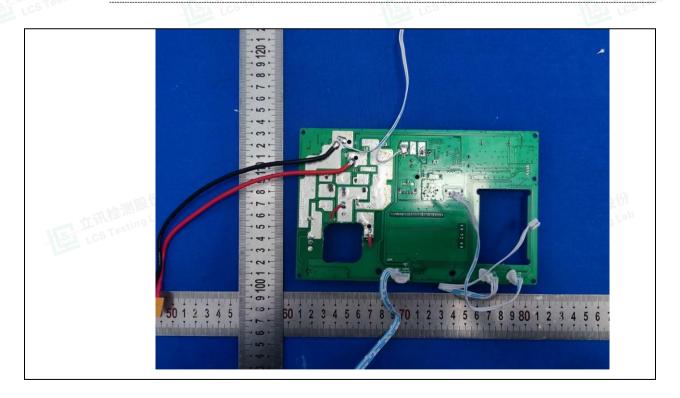
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Details of: PCB View



Details of: PCB View





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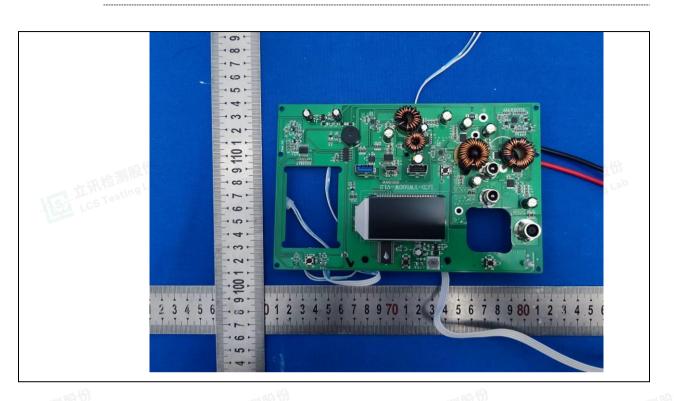
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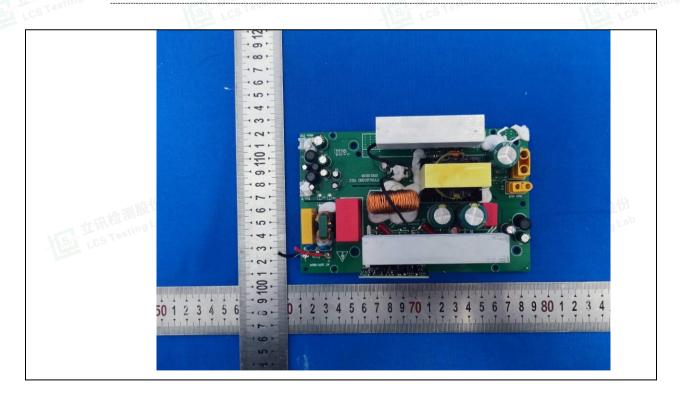
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Details of: PCB View



Details of: PCB View





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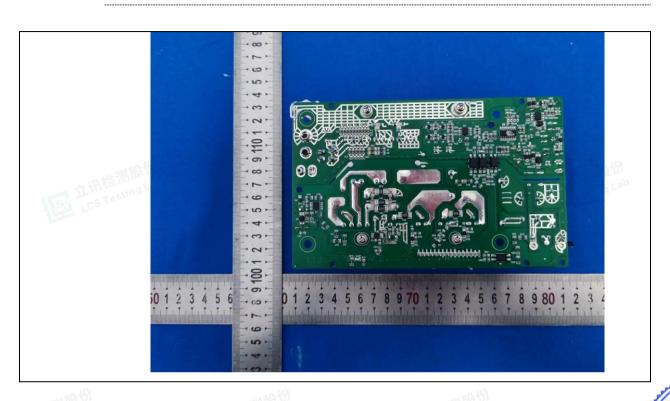




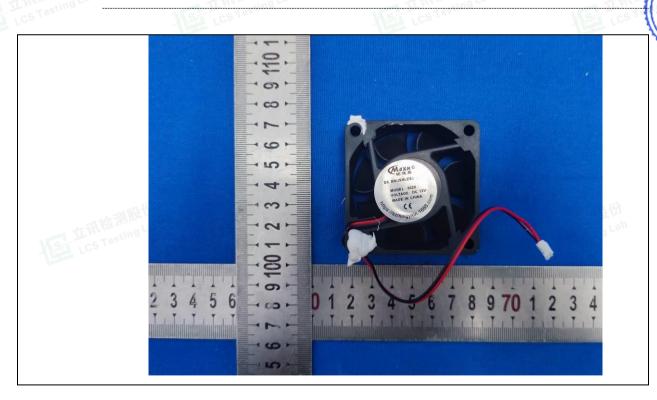
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Details of: PCB View



Details of: DC Fan View





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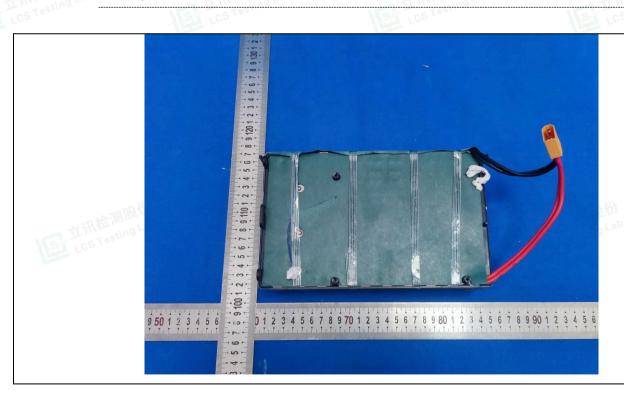
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Attachment No. 2

Details of: Adapter View



Details of: Battery View



-----END OF TEST REPORT-----



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