

TEST REPORT EN 62368-1

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

Report Number....: LCSA02135118S

Date of issue: 2025-03-27

Total number of pages: 78

Name of Testing Laboratory

Applicant's name:

Shenzhen LCS Compliance Testing Laboratory Ltd.

preparing the Report::

Jerryken Intelligent Technology(Shanghai) Co., Ltd.

Address: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road,

BaoshanDistrict, Shanghai

Test specification:

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

Test procedure.....: TRF-4-S-132 A/0

Non-standard test method: N/A

TRF template used: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No.....: IEC62368 1E

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

Master TRF: Dated 2022-04-14

Copyright © 2022 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.

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

General disclaimer:

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

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





Page 2 of 78

Report No.: LCSA02135118S

Test item description MINISERVER CHASSIS

Trade Mark(s)...... Goldshell

Manufacturer.....: Same as the Applicant

Model/Type reference: BYTE

Ratings Input: 20V==7.0A

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

\boxtimes	Testing Laboratory:	Shenzhen LCS complia	nce 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	
Pre	pared by:	David Ma Project Handler	David Ma
Che	ecked by:	Benson Kuai Reviewer	Benson Knai
Apr	proved by:	Hart Qiu	Hat 18.

Technical Director



Page 3 of 78 Report No.: LCSA02135118S

List of Attachments (including a total number of pages in each attachment): Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES. (21 pages) Attachment No.2: Photo documentation (4 pages) Summary of testing: Tests performed (name of test and test clause): **Testing location:** The submitted samples were found to comply with the Shenzhen LCS Compliance Testing Laboratory Ltd. requirements of: Room 101, 201, Building A and Room 301, Building **Electrical safety:** C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, EN IEC 62368-1:2020+A11:2020 Summary of compliance with National Differences (List of countries addressed): European group differences and national differences ☐ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020. Use of uncertainty of measurement for decisions on conformity (decision rule): No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

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







Copy of marking plate:

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

Goldshell

Report No.: LCSA02135118S

MINISERVER CHASSIS

Model: BYTE
Input: 20V==7.0A
Importer: XXX
Address: XXX

CE^国公

Jerryken Intelligent Technology(Shanghai) Co., Ltd.

Made in CHINA

Notes:

The height dimension of CE mark should not less than 5mm, the height dimension of WEEE symbol should not less than 7mm.

VSG 立语检测股份 LCS Testing Lab















Page 5 of 78

Report No.: LCSA02135118S

Test item particulars:		
Product group:		
Classification of use by:	⊠Ordinary person	
	⊠Instructed person	
	⊠Skilled person	
	⊠Children likely to be present	
Supply connection:	☐AC Mains ☐DC Mains	
	⊠External Circuit - not Mains connected	
ar th	- ⊠ES1 □ ES2 □ ES3	
Supply tolerance:	☐ +10%/-10%	
151 LCS TOSTIN	☐ +20%/-15%	
	None Non	
Supply connection – type:	pluggable equipment type A -	
	non-detachable supply cord	
	appliance coupler	
	direct plug-in	
	pluggable equipment type B -	
(人测股份	non-detachable supply cord	
THE Testing Lab	appliance coupler	
TC2	permanent connection mating connector	
	other: Not directly connected to the mains	
Considered current rating of protective device:	location: Duilding; Dequipment N/A	
Equipment mobility:	 ☐ movable ☐ hand-held ☐ transportable ☐ direct plug-in ☐ stationary ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other: 	
Overvoltage category (OVC):		
古讯检测校证 ing_Lab	☐ OVC IV ⊠other: Supplied by 320Vdc	
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐	
Special installation location:	_	
Pollution degree (PD):		
Manufacturer's specified T _{ma} :	45°C ☐ Outdoor: minimum °C	
IP protection class:		
Power systems:	☐ TN ☐ TT ☐ IT V _{L-L}	
	⊠ not AC mains	
Altitude during operation (m):		
Altitude of test laboratory (m):	⊠ 500 m or less □ m	



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com | Scan code to check authenticity





Page 6 of 78 Report No.: LCSA02135118S

Ма	ss of equipment (kg):	⊠ 0.21kg approx.	MST LCST
Pos	ssible test case verdicts:		
	st case does not apply to the test object:	N/A	
	·	,	
	· · · · · · · · · · · · · · · · · · ·	i (i ali)	
	•	2025 02 17	
	•		
test object does meet the requirement			
Ge	neral remarks:	Tiff Maring Lab	H Turking Lab
The rep	e applicant and manufacturer information, products ort are all provided by the applicant, and this la	uct name, model, trademark and other in aboratory is not responsible for verifying it	
		Yes	
		Not applicable ■	
sar	nple(s) submitted for evaluation is (are)	10000000000000000000000000000000000000	
rep	resentative of the products from each factory been provided	IST LCS Testing Lab	
Wh	en differences exist; they shall be identified	in the General product information sec	ction.
Na	me and address of factory (ies):	Same as manufacturer.	
Ge	neral product information and other remark	s:	
1.	Instructions and equipment marking related to the country in which the equipment is to be so		acceptable in
2.	The product was submitted and tested for use temperature (Tma) of 45°C.	e at the manufacturer's recommended an	nbient



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com | Scan code to check authenticity



Page 7 of 78 Report No.: LCSA02135118S

OVERVIEW OF ENERGY SOU	JRCES AND SAFEGUARDS	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: 20VDC input	Ordinary	N/A	N/A	Enclosure	
6	Electrically-caused fire	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS3: All internal circuits	All combustible materials within equipment fire enclosure	Equipment safeguards (no ignition)	Equipment safeguards (no ignition)	N/A	
7	Injury caused by hazardous	substances			
Class and Energy Source	Body Part	Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A	N/A	N/A	N/A	N/A	
8	Mechanically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: less than 7kg (Mass of the unit)	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: Enclosure	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: Indicator light	Ordinary	N/A	N/A	N/A	
Supplementary Information:					

Supplementary Information:

"B" – Basic Safeguard; "S" – Supplementary Safeguard; "R" – Reinforced Safeguard





Page 8 of 78 Report No.: LCSA02135118S

ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

 \bowtie ES

⊠ PS

 \bowtie MS

 \bowtie TS

 \bowtie RS

写在记录检测股份

工资检测股份 LCS Testing Lab

下 立语检测股份

YS 工资检测股份 LCS Testing Lat











	Page 9	of 78 Report No.:	LCSA02135118
	设计 Emilia Historia	C 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	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P 股份 ng Lab
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)	人间段份	N/A
4.1.15	Markings and instructions	(See Annex F)	TP
4.4.3	Safeguard robustness	100	N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests		N/A
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests	No such safeguard.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests		N/A
4	Glass impact test (1J)	女讯检 测	N/A
1/9/	Push/pull test (10 N)	IST LCS Test	N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		N/A
4.5.1	General		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Y	Page 10 of 78	Report No.: LCSA	02135118
- TILL RE	IEC 62368-1	-m18243	
Clause	Requirement + Test	Result - Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	No explosion	N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors	No conductors.	N/A
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:		N/A
4.7	Equipment for direct insertion into mains socker	t-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	No such equipment.	N/A
4.7.3	Torque (Nm)	an faith	N/A
4.8	Equipment containing coin/button cell batteries	VIST ICS Tes	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test	- 115	N/A
4.8.4.5	Impact test	· 语检测版 hab	N/A
4.8.4.6	Crush test	LCS Testino	N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of condu	ictive object	Р
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY	立语位的	ng LP
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	ES3	Р
5.2.2.2	Steady-state voltage and current limits	ES3	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



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com Scan code to check authenticity



Page 11 of 78

Report No.: LCSA02135118S

TILL REAL	IEC 62368-1	一言股份	
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	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
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	NS THE	ng L.P
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V		
5.3.2.2 a)	Air gap – electric strength test potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm)		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	THE Y	Р
5.4.1.2	Properties of insulating material	立语位 julia Lab	N/A
5.4.1.3	Material is non-hygroscopic	rcs to	N/A
5.4.1.4	Maximum operating temperature for insulating materials	See appended table 5.4.1.4	Р
5.4.1.5	Pollution degrees		N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling test		N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage	1 CS ICS	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test		N/A
			N/A
5.4.2	Clearances		IN/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: $\underline{webmaster@lcs\text{-}cert.com} \mid \text{http://} \ \underline{www.lcs\text{-}cert.com}$





Page 12 of 78

Report No.: LCSA02135118S

THE P	IEC 62368-1	一加股份	
Clause	Requirement + Test	Result - Remark	Verdict
000	Clearances in circuits connected to AC Mains, Alternative method	12	N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage:		_
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage:		_
5.4.2.3.2.3	d.c. mains transient voltage		_
5.4.2.3.2.4	External circuit transient voltage		_
5.4.2.3.2.5	Transient voltage determined by measurement:	拉哥拉利	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	VSA LCS Tos	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement		N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group		_
5.4.3.4	Creepage distances measurement	100	N/A
5.4.4	Solid insulation	Enclosure used for functional insulation.	N/A
5.4.4.1	General requirements	Too.	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):	共和位 刑	N/A
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





_ 113	Page 13 of 78 IEC 62368-1	Report No.: LCSA	02 133 110
Clause	Requirement + Test	Result - Remark	Verdict
Olause	requirement i rest	Tresuit Tremain	Verdict
	Alternative by electric strength test, tested voltage (V), K_R	1	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ):		N/A
	Electric strength test:		N/A
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	- LCS 100	N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C), duration (h):		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits	公测股份	N/A
5.4.10.1	Parts and circuits separated from external circuits	Titlesting Lab	N/A
5.4.10.2	Test methods	1	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test:		N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements	122 103	N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		_
	Max increase due to variation ΔU_{sp} :		_
	Max increase due to ageing ΔU_{sa} :		_
5.4.11.3	Test method and compliance		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



Page 14 of 78

Report No.: LCSA02135118S

TIME Y	IEC 62368-1	一一股份	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement	女讯检测	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	1 rcs 1	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	No such component provided.	N/A
5.5.6	Resistors	No such component provided.	N/A
5.5.7	SPDs	No such component provided.	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:	No such external circuits.	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	上、讯位测度173	N/A
LCS Testing	RCD rated residual operating current (mA):	LCS Testino	_
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors		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):		_
1 ST L	Protective earthing conductor serving as a reinforced safeguard	TE TOSTOST	N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):		N/A
5.6.5	Terminals for protective conductors		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: $\underline{webmaster@lcs-cert.com} \mid http:// \ \underline{www.lcs-cert.com}$





Report No.: LCSA02135118S



Page 15 of 78

1924	in Fage 13 01 76	Report No.: LCSAO	
Clause	Requirement + Test	Result - Remark	Verdict
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	1,05.	N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor	Till LCS Test	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective 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 voltage	公测股份	N/A
5.7.3	Equipment set-up, supply connections and earth connections	TCS Testing L.	N/A
5.7.4	Unearthed accessible parts:		N/A
5.7.5	Earthed accessible conductive parts:		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA):		N/A
	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables	· · · · · · · · · · · · · · · · · · ·	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	157 CSTes	N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
	b) Equipment connected to unearthed external circuits, current (mA):		N/A
5.8	Backfeed safeguard in battery backed up supplie	es	N/A
	Mains terminal ES:		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



¥	Pa	age 16 of 78	Report No.:	LCSA02135118S
SAIIIT S		IEC 62368-1		
Clause	Requirement + Test	Resu	ult - Remark	Verdict
(C5.	Air gap (mm)	1134 163		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.1)	an HP
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	ng LP
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method by control of fire spread applied, fire enclosure provided.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	在讯检测股份	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS3 circuits	P
6.4.3.1	Supplementary safeguards		Р
6.4.3.2	Single Fault Conditions:	(See appended table B.4)	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		N/A
6.4.5.2	Supplementary safeguards		Р
6.4.6	Control of fire spread in PS3 circuits		RE (I)P
6.4.7	Separation of combustible materials from a PIS	PCB rated Min. V-1 class material except for other small components made of V-2 class material.	ng LP
6.4.7.2	Separation by distance		Р
6.4.7.3	Separation by a fire barrier	V-0 PCB used	Р
6.4.8	Fire enclosures and fire barriers		Р
6.4.8.2	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure		Р



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





Page 17 of 78 Report No.: LCSA02135			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Ca	Р
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions	No fire barrier	N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure	~: 11 检测	N/A
Med	Instructional Safeguard	151 LCS Test	N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		N/A
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	一位测度价	Р
6.5.2	Requirements for interconnection to building wiring	(See appended table 4.1.2)	I P LCS TO
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

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

8	MECHANICALLY-CAUSED INJURY	Р
8.2	Mechanical energy source classifications	Р
8.3	Safeguards against mechanical energy sources	N/A
8.4	Safeguards against parts with sharp edges and corners	Р



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Page 18 of 78

Report No.: LCSA02135118S

· 对 探证 河川 R& 竹	IEC 62368-1	- 17 EV P	্বৰ পূৰ্বি
Clause	Requirement + Test	Result - Remark	Verdict
8.4.1	Safeguards	T	N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Edges and comers of the enclosure are rounded.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
- T	Moving MS3 parts only accessible to skilled person	工	N/A
8.5.2	Instructional safeguard:	ST LCS Tes	N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	(人) 1111 图24分	N/A
8.5.4.2.3	Emergency stop system	Till Maring Lab	N/A
Los	Maximum stopping distance from the point of activation (m)	Too To	N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	IST 立语位为	N/A
8.5.4.3.1	Equipment safeguards	122	N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps		N/A
	Explosion test:		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





	Page 19 of 78	Report No.: LCSA	02135118
THE PROPERTY	IEC 62368-1	- THE MARKETS	
Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.3	Glass particles dimensions (mm)	T.	N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
	Instructional safeguard		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability	- 47	N/A
-11	Wheels diameter (mm):	立语(2)	
189	Tilt test	1 CE ICE ICE	N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	cture	N/A
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N):		N/A
四台测股	Test 2, number of attachment points and test force (N)	四绘测股份	N/A
CS Lesting !	Test 3 Nominal diameter (mm) and applied torque (Nm)	LCS Testing	N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles		_
	Force applied (N)		
8.9	Wheels or casters attachment requirements	-	N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers	上讯检测	N/A
8.10.1	General VSA CS Testing	1 ST LCS Tes	N/A
8.10.2	Marking and instructions		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)		
8.10.6	Thermoplastic temperature stability		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 20 of 78 Report No.: LCSA02135118S

, art	IEC 62368-1	Report No.: Look	02100110	
Clause	lause Requirement + Test Result - Remark			
8.11	Mounting means for slide-rail mounted equipmer	et (SRME)	N/A	
8.11.1	General		N/A	
8.11.2	Requirements for slide rails		N/A	
	Instructional Safeguard		N/A	
8.11.3	Mechanical strength test		N/A	
8.11.3.1	Downward force test, force (N) applied:		N/A	
8.11.3.2	Lateral push force test		N/A	
8.11.3.3	Integrity of slide rail end stops		N/A	
8.11.4	Compliance	立语检测	N/A	
8.12	Telescoping or rod antennas	ST ICE IS	N/A	
	Button/ball diameter (mm)			

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4,	Р
		9.3, B.1.5, B.2.6)	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:		N/A

10	RADIATION	ng LP
10.2	Radiation energy source classification	
10.2.1	General classification	N/A
	Lasers:	_
	Lamps and lamp systems:	_
	Image projectors:	_
	X-Ray:	_
	Personal music player:	_
10.3	Safeguards against laser radiation	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Report No.: LCSA02135118S



Page 21 of 78

ar. 44	Page 21 of 78 IEC 62368-1	Report No.: LCSAU	2100110
Clause	Requirement + Test	Result - Remark	Verdict
(5)	The standard(s) equipment containing laser(s) comply:	1000	N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	Р
10.4.1	General requirements	RS1	Р
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures	工 拉语检测	N/A
MSI L	UV radiation exposure	LCS Tes	N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg):		_
10.6	Safeguards against acoustic energy sources	1	N/A
10.6.1	General		N/A
10.6.2	Classification	元会测股份	N/A
CS Testing L	Acoustic output L _{Aeq,T} , dB(A):	I STesting Lan	N/A
	Unweighted RMS output voltage (mV):	100	N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A):		N/A
10.6.4	Measurement methods	女话检测	N/A
10.6.5	Protection of persons	VST CS Tes	N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



•	Page 22 of 78	Report No.:	LCSA021351185
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.3	Cordless listening devices	160	N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNO CONDITION TESTS AND SINGLE FAULT CONDIT		Р
B.1	General		Р
B.1.5	Temperature measurement conditions		Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	股中 ng Lab
100	Audio Amplifiers and equipment with audio amplifiers:	Not such equipment.	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	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	(See appended table B.3)	Р
	Instructional safeguard:		N/A
B.3.3	DC mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector	No voltage selector was used.	N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity	No battery within the EUT	N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	(See appended table B.3)	Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device	. ~ . "П	N/A
B.4.3	Blocked motor test	工工课程	N/A
B.4.4	Functional insulation	See below.	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)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u> Scan code to check authenticity



Page 23 of 78

Report No.: LCSA02135118S

	Page 23 of 78	Report No.: LCSAU	∠135118\
-71 FE 191	IEC 62368-1	- The Market	্বৰ মান্ত
Clause	Requirement + Test	Result - Remark	Verdict
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3.	Р
B.4.9	Battery charging and discharging under single fault conditions	No battery involved in the EUT	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rad	liation	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 test		N/A
C.2.4	Xenon-arc light-exposure test	- 10 H	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	LCS Tes	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
	Maximum non-clipped output power (W):		
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V):		_
	Instructional safeguard	n thi	
E.2	Audio amplifier normal operating conditions	VS ICS Test	N/A
	Audio signal source type:		
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	+		11/4
	Requirements for temperature measurement		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





	Page 24 of 78	Report No.: LCSAC	2135118
10000000000000000000000000000000000000	IEC 62368-1	10000000000000000000000000000000000000	- 45
Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1	General		Р
	Language:	English version provided and checked.	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	股中 ng Lab
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	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 for details	_
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains	Title Lab	N/A
F.3.3.2	Equipment without direct connection to mains	100	Р
F.3.3.3	Nature of the supply voltage:		_
F.3.3.4	Rated voltage:	See copy of marking plate.	_
F.3.3.5	Rated frequency:		
F.3.3.6	Rated current or rated power:	See copy of marking plate.	
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings		N/A
	Instructional safeguards for neutral fuse:	No such battery on the equipment.	N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6	Equipment markings related to equipment classification	Class III equipment	Р
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0.	
F.3.8	External power supply output marking:	n fil	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10 The interest of the second s	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P 立语 LCS TE
F.4	Instructions	i contambe regioner	P
	a)In		P
	formation prior to installation and initial use		·
	b)E quipment for use in locations where children not likely to be present		N/A
	c) Instructions for installation and interconnection		P 服份
IST L	d) Equipment intended for use only in restricted access area	LCS TOSS	N/A
	e) Equipment intended to be fastened in place		N/A
	f)Instructions for audio equipment terminals		N/A
	g)		N/A
	Protective earthing used as a safeguard		





•	Page 26 of 78	Report No.: LCSA	2135118
THE PERMIT	IEC 62368-1	一個股份	
Clause	Requirement + Test	Result - Remark	Verdict
	h) Protective conductor current exceeding ES2 limits	120	N/A
	i)Graphic symbols used on equipment		N/A
	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k)Replaceable components or modules providing safeguard function		N/A
A STATE	l)Equipment containing insulating liquid	LCS Test	N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No switch used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance	人间段分	N/A
G.2	Relays	Till Testing Lab	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
24	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	- 無粒形	N/A
Also I	Thermal cut-outs tested as part of the equipment as indicated in c)	LCS Tost	N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Report No.: LCSA02135118S



Page 27 of 78

一一股份	IEC 62368-1	一一一一	
Clause	Requirement + Test	Result - Remark	Verdict
G.3.4	Overcurrent protection devices	, cs	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	LCS Test	N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test	Not applied for.	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle):		
一块测股份	Test temperature (°C):	(A) 到股份	
G.5.2.3	Wound components supplied from the mains	Trivia Land	N/A
G.5.2.4	No insulation breakdown	1	N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions	女讯检测	N/A
G.5.3.3.2	Winding temperatures	LCS 100	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



Page 28 of 78

-mil RG 1	IEC 62368-1	·····································	
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	100	N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements		Р
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test	如检测	N/A
G.5.4.4.2	Locked-rotor overload test	VST ICS Test	N/A
	Test duration (days):		
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		Р
G.5.4.6.2	Tested in the unit		Р
	Maximum Temperature:		Р
G.5.4.6.3	Alternative method	THE HA	N/A
G.5.4.7	Motors with capacitors	工活種 Ming Lab	N/A
G.5.4.8	Three-phase motors	I res.	N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	1	N/A
G.7.1	General requirements		N/A
	Type:	Lin 检测	
G.7.2	Cross sectional area (mm ² or AWG):	1 ST LCS Test	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
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com

Scan code to check authenticity



Report No.: LCSA02135118S



Page 29 of 78

Report No.: LCSA02135118S

-mil RG /	IEC 62368-1	一一眼份	
Clause	Requirement + Test	Result - Remark	Verdict
G.7.4	Cord Entry	1	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire	LCS Test	N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test	一侧股份	N/A
G.9	Integrated circuit (IC) current limiters	工语 Testing Lab	N/A
G.9.1	Requirements	res	N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	二五位河	N/A
G.10.4	Voltage surge test	LCS Test	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: $\underline{webmaster@lcs\text{-}cert.com} \mid \text{http://} \ \underline{www.lcs\text{-}cert.com}$





Page 30 of 78

Report No.: LCSA02135118S

	IEC 62368-1	一则股份	
Clause	Requirement + Test	Result - Remark	Verdict
(25	Optocouplers comply with IEC 60747-5-5 with specifics	100	N/A
	Type test voltage V _{ini,a} :		
	Routine test voltage, V _{ini, b} :		
G.13	Printed boards		Р
G.13.1	General requirements	PCB certificate used.	Р
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface	Tes res	N/A
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		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	Salling (A)	N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	and The second	N/A
G.15.2.5	Thermal cycling test	MSA CS Test	N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	,	N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Page 31 of 78 Report No.: LCSA02135118S

	Page 31 of 78	Report No.: LCSA)21351188
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
(02.	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	Ca	_
	Mains voltage that impulses to be superimposed on:		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test:		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A	一 打汛检测	N/A
H.3	Method B	VST LCSTes	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	Cadence; time (s) and voltage (V):		
H.3.1.4	Single fault current (mA)::		_
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	、····································	N/A
H.3.2.2	Tripping device	工记 Testing Lab	N/A
H.3.2.3	Monitoring voltage (V):	Los	N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General		N/A
	Winding wire insulation:		_
	Solid round winding wire, diameter (mm):		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):		N/A
J.2/J.3	Tests and Manufacturing		联份
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mecha	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe Fail-safe		N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



Page 32 of 78 Report No.: LCSA02135118S

-mi RG	# IEC 62368-1	TROPORTION LOOK	
Clause	Requirement + Test	Result - Remark	Verdict
K.6.1	Endurance requirement	/(5) ME	N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2:		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR	R PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment	IST LCS TOST	N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A

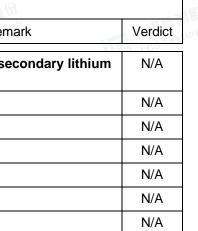


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





	Page 33 of 78 Report No.: LCSA	02135118
可被测度	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
M.4	Additional safeguards for equipment containing a portable secondary lithium battery	N/A
M.4.1	General	N/A
M.4.2	Charging safeguards	N/A
M.4.2.1	Requirements	N/A
M.4.2.2	Compliance:	N/A
M.4.3	Fire enclosure:	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	N/A
M.4.4.2	Preparation and procedure for the drop test	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	N/A
M.4.4.4	Check of the charge/discharge function	N/A
M.4.4.5	Charge / discharge cycle test	N/A
M.4.4.6	Compliance	N/A
M.5	Risk of burn due to short-circuit during carrying	N/A
M.5.1	Requirement	N/A
M.5.2	Test method and compliance	N/A
M.6	Safeguards against short-circuits	N/A
M.6.1	External and internal faults	N/A
M.6.2	Compliance	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
	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
	Minimum air flow rate, Q (m³/h):	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A
M.7.3.2	Ventilation test – alternative 1	N/A
	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
	Hydrogen gas concentration (%):	N/A
M.7.4	Marking:	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A
M.8.1	General	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





Page 34 of 78

AT THE THINKS	IEC 62368-1	- 17 182 193 - 17 182 193	
Clause	Requirement + Test	Result - Remark	Verdict
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s)	:	_
M.8.2.3	Correction factors	:	_
M.8.2.4	Calculation of distance 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		N/A
	Instructional safeguard	:	N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used	:	_
0	MEASUREMENT OF CREEPAGE DISTANCES	AND CLEARANCES	N/A
	Value of X (mm)	:	_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	CTS	N/A
P.1	General		N/A
P.2	Safeguards against entry or consequences of	entry of a foreign object	N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm)	:	_
P.2.3	Safeguards against the consequences of entry of foreign object	а	N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts	:	N/A
P.2.3.2	Consequence of entry test	:	N/A
P.3	Safeguards against spillage of internal liquids	15 LCS	N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing pa	arts	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>

Scan code to check authenticity



Report No.: LCSA02135118S



Page 35 of 78

Report No.: LCSA02135118S

	Page 33 01 76	Report No.: LCSF	102133110
THE THE PARTY	IEC 62368-1	1- 河域测版份	্ব কি
Clause	Requirement + Test	Result - Remark	Verdict
	Conditioning, T _C (°C):		_
	Duration (weeks):		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance:		N/A
	Current rating of overcurrent protective device (A)		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A):		N/A
	Current limiting method:		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test:		_
R.3	Test method		N/A
	Cord/cable used for test:		_
R.4	Compliance		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 barr	er integrity	N/A
	Samples, material:		_
	1	<u> </u>	



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Page 36 of 78

Report No.: LCSA02135118S

, est	Page 36 of 78 Report No.: LCSAL	2100110
Clause	Requirement + Test Result - Remark	Verdict
C5 785	Wall thickness (mm):	<u> </u>
	Conditioning (°C):	
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
	Mounting of samples:	_
	Wall thickness (mm):	
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning (°C):	_
Т	MECHANICAL STRENGTH TESTS	N/A
T.1	General	N/A
T.2	Steady force test, 10 N:	N/A
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N:	N/A
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:	N/A
T.8	Stress relief test:	N/A
T.9	Glass Impact Test:	N/A
T.10	Glass fragmentation test	N/A
	Number of particles counted:	N/A
T.11	Test for telescoping or rod antennas	N/A
	Torque value (Nm):	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	N/A
U.1	General	N/A
	Instructional safeguard :	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs	N/A
U.3	Protective screen	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China





Page 37 of 78 Report No.: LCSA02135118S

. nTh	Page 37 of 78 Report No.: LC	CSA02135118
Clause	Requirement + Test Result - Remark	Verdict
V	DETERMINATION OF ACCESSIBLE PARTS	P
V.1	Accessible parts of equipment	Р
V.1.1	General	Р
V.1.2	Surfaces and openings tested with jointed test probes	Р
V.1.3	Openings tested with straight unjointed test probes	Р
V.1.4	Plugs, jacks, connectors tested with blunt probe	Р
V.1.5	Slot openings tested with wedge probe	N/A
V.1.6	Terminals tested with rigid test wire	N/A
V.2	Accessible part criterion	Р
х	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	ON N/A
	Clearance:	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES	N/A
Y.1	General	N/A
Y.2	Resistance to UV radiation	N/A
Y.3	Resistance to corrosion	N/A
Y.3	Resistance to corrosion	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Y.3.2	Test apparatus	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	N/A
Y.3.4	Test procedure:	N/A
Y.3.5	Compliance	N/A
Y.4	Gaskets	N/A
Y.4.1	General	N/A
Y.4.2	Gasket tests	N/A
Y.4.3	Tensile strength and elongation tests	N/A
	Alternative test methods:	N/A
Y.4.4	Compression test	N/A
Y.4.5	Oil resistance	N/A
Y.4.6	Securing means	N/A
Y.5	Protection of equipment within an outdoor enclosure	N/A
Y.5.1	General	N/A
Y.5.2	Protection from moisture	N/A
	Relevant tests of IEC 60529 or Y.5.3:	N/A
Y.5.3	Water spray test	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



Page 38 of 78

	1 age 30 01 70	Report No	LOOKUZ 133 1 10			
IEC 62368-1						
Clause	Requirement + Test	Result - Remark	Verdict			
Y.5.4	Protection from plants and vermin	100	N/A			
Y.5.5	Protection from excessive dust		N/A			
Y.5.5.1	General		N/A			
Y.5.5.2	IP5X equipment		N/A			
Y.5.5.3	IP6X equipment		N/A			
Y.6	Mechanical strength of enclosures		N/A			
Y.6.1	General		N/A			
Y.6.2	Impact test		N/A			
		-				

立语检测股份 LCS Testing Lab

NST TIR控测股份

LCS Testing Lab









Report No.: LCSA02135118S





¥	Page 3	Page 39 of 78 Report No.			
	份到明明	EC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict		
LCS 1	TABLE: Classification of electrics	102/102	Visit in		

5.2 TABLE: Classification of electrical energy sources								Р
Supply Location (e.g. Test conditions Voltage circuit Parameters							ES Class	
Voltage	de	esignation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
20Vdc	Inter	nal circuits	Normal	20Vdc Max.		SS		ES1
			Abnormal					
			Single fault					

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working voltage	ge measureme	nt			N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
	-	1	-	1		
- ar 47)	-	and the		- 1 P. (4)	-	
LindingLa	一 拉闭	位测的 Lab	- 1	开检测的 Lab	-	在讯检测
LCS Test	LCS	162-	-1 ST L	5105	132	LCS Tes
		-	-		1	
	-	-			-	
Supplementa	ary information:					

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method: ISO 306 / B50							
Object/ Part No./Material Manufacturer/trademark Thickness (mm) T softening							
- VSC CSTesting - VSC CSTesting - VSC CSTE-ing						ug La	
Supplement	ary information:	120		7			

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter (mm) ≤ 2 mm							
Object/Part N							ression eter (mm)



Shenzhen LCS Compliance Testing Laboratory Ltd.



Page 40 of 78 Report No.: LCSA02135118S

no.	.43		Fage 40 01	2368-1	Kepon No.	LC3A02133116
Clause	Requireme	nt + Test	sting Lab	-41	ult - Remark	Verdict
C2.		Var res		18/1 108		134 rcs
Suppleme	entary informat	ion:		•	•	•

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
				107.4A				1012 HA

Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2 TABLE: Minimum distance through insulation							
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)	
Supplement	ary information:	or 44	-17	n.俗			

5.4.4.9	TABLE: Solid in	nsulation at	frequencies	>30 kHz	CSTE		N/A
Insulation m	aterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
Supplement	ary information:						

5.4.9	TABLE: Electric strength tests							
Test voltage	applied between:	Voltage shap (Surge, Impulse DC, etc.)		Breakdown Yes / No				
Basic/supple	ementary:	15 CS Testing Land	V51 1	S Testing Las				
Reinforced:								
Supplement	ary information:							

5.5.2.2	TABLE:	TABLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault	Switch	Measured	E	S Class



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com | Scan code to check authenticity



ar 4	份		Page 41 of 7	2368-1	1024	3)2135118	
Clause	Requir	rement + Test	eting rap	Re	esult - Rem	ark		Verdict	
Ce 183		V3/1 (09)	condit	ion ¹⁾ p	oosition	voltag (Vpk)		V Ca	
Suppleme	ntary info	ormation:		•			,		
X-capacito	rs install	ed for testing:							
[] bleedin	g resisto	r rating:							
[]ICX:									
1) Normal	operatin	ng condition (e.g., n	ormal operatior	n, or open fuse)), SC= shor	t circuit, C	C= oper	n circuit	
公司股份 公司股份							(A=11)	股份	
5.6.6	TABLE	E: Resistance of p	rotective cond	uctors and ter	minations	Well	TINTE Test	N/A	
Location	,		Test current (A)	Duration (min)) Vo	oltage drop (V)	Re	Resistance (Ω)	
Supplemer	ntary info	rmation:					•		
5.7.4	TABL	E: Unearthed acce	ssible parts					N/A	
Location		Operating and	Supply		Paramete	ers		ES	
Location		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Cui	rrent or A _{pk})	Freq. (Hz)	class	
- VS110		IST LCST	Still B	- 151	CS Testino		- 16	CST	
		I.	I	L	L			1	
 Suppleme	ntary info	rmation:							

5.7.5	TABLE: Earthed access	ible conductive part			N/A				
Supply volta	age (V):				_				
Phase(s)	·····:	[] Single Phase; [] Three F	[] Single Phase; [] Three Phase: [] Delta [] Wye						
Power Distr	ibution System:	□ TN □ TT	. ~ = 1						
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	nt Comment					
Supplement	Supplementary Information:								

5.8	TABLE:	TABLE: Backfeed safeguard in battery backed up supplies					
Location		Supply	Operating and fault	Time (s)	Open-circuit	Touch	ES Class



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Page 42 of 78

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

Report No.: LCSA02135118S

	voltage (V)	condition	voltage (V)	current (A)	

Supplementary information:

Abbreviation: SC= short circuit, OC= open circuit

6.2.2	TABLE: Power source	TABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	P	S class		
Internal circuit	Attimited	TITITE OF THE	sting Lab	>100W	5S	1. 1. 1.	PS3 claration)		

Supplementary information:

Abbreviation: SC= short circuit;

- 1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.
- 2) *: Unit shutdown immediately, no damage, no hazard.

6.2.3.1 TABLE: Determination of Arcing PIS							
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		ing PIS? es / No	
加股份	 to	国检测程 符		测股份			

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_D) and normal operating condition rms current (I_{rms}) is greater than 15.

All conductors and devices are considered as PIS.

6.2.3.2	TABLE: Determin	nation of resistive PIS			Р
Location		Operating and fault condition	Dissipate power (W)		esistive PIS? es / No
All primary circuits / parts				(ded	Yes claration)

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

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

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

All conductors and devices are considered as PIS.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com | Scan code to check authenticity





Page 43 of 78 Report No.: LCSA02135118S

anii RA	份	TILL REAL TO LEAD TO THE REAL TO LEAD	EC 62368-1	~ 70	iii RE 份		
Clause Requirement + Test Resu					Remark		Verdict
8.5.5	5 TABLE: High pressure lamp						
Lamp manufacturer		Lamp type	Explosio	n method	glass particle beyo		cle found and 1 m s / No
Suppleme	entary information	n:					

9.6	TABLE:	TABLE: Temperature measurements for wireless power transmitters							N/A
Supply volta	ge (V)			: I	S Testing Law		V	ST INTE	
Max. transm	Max. transmit power of transmitter (W):								_
			eiver and contact		eiver and contact	with receiver and at distance of 2 mm			ver and at of 5 mm
Foreign of	ojects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)

















Y	Pag	e 44 of 78 Report No.:	Report No.: LCSA02135118					
A STILL AS	IEC 62368-1							
Clause	Requirement + Test	Result - Remark	Verdict					
rca .	1/37 rcs	Val rea	TOST FCS.					

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	asure	ement	ts						Р
Supply volta	age (V)				20V	'dc				-	_
Ambient ten	nperature during	test T_{amb} (°	C)			i				-	_
Maximum m	neasured tempera	ature T of					Т	(°C)			Allowed T _{max} (°C)
PC1 body			3	8.4	5	8.4				105	
PC2 body	A拉测版功			3	7.1	5	7.1			上:沿位	105
PCB near U	Testing		M	4	2.9	6	52.9			MST LCST	130
PCB near U	12			4	2.1	6	52.1				130
PCB near U	13			4	1.9	6	61.9				130
PCB near U	14			43.1 63.1					130		
L1 body				44.9		6	64.9				130
DC Fan				45.8 65.8					Ref.		
PCB near U	15			46.5 66.5		6.5				130	
PCB near U	16			47.6 67.6		67.6				130	
PCB near U	7	- to T	则股份	4	5.2	6	5.2	必测度份			130
L2 body	V	TIMES TOS	fing L	4	5.1	6	5.1	Te	stips Lac	v	130
C52 body	10			4	4.4	6	64.4				105
C46 body				4	3.9	6	3.9				105
Metal enclos	sure inside			3	3.7	5	3.7				Ref.
Ambient				2	5.0		ust to 5.0				
Temperatur	e T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ (°C	C)	R_2 (Ω	2)	T (°C)	Allowed T_{max} (°C)	Insulation class

Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 45°C.

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



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



Page 45 of 78 Report No.: LCSA02135118S

-mil RE	·份 ···································	EC 62368-1	. ~
Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	TABLE: Inpu	ıt test						Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condit	ion/status
20Vdc	2.98	7.0	59.6				Norma operati	

Supplementary information:

The maximum measured current under rated voltage did not exceed 110% of the rated current.

B.3, B.4	TAB	LE: Abnormal	operating	and fault o	ondition t	ests	Test	股停	
Ambient te	mpera	ture T _{amb} (°C)		T West	esting Lab	25°C, if not sp	pecified		
Power soul	rce for	EUT: Manufact	urer, mode	l/type, outp	utrating:			_	
Componen	t No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observat	ion	
C1		SC	20Vdc	10mins				Unit shut down immediately, no damaged, no hazard.	
Q1 pin1-3	À	SC	20Vdc	10mins			Unit shut down immediately, no damaged, no ha		
C51	ab	SC	20Vdc	10mins	100	立语检测型 LCS Testing Lab	Unit shut down immediately, no damaged, no ha		
DC Fan		locked	20Vdc	7hrs			Unit worked as after test, no da no hazards.		
							Fan: 48.5°C		
							Ambient:25.0°C		

Supplementary information:

- 1) SC: Short circuit, OC: Open circuit. OL: Overload
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.





Page 46 of 78 Report No.: LCSA02135118S

	. age it	7 of 10	200,1021001100
A STILL RES	份 CHERTINE	EC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
7-6-1		14.5/4 65 1	14-11

M.3	TABLE: Pro	otection circu	its f	or batteri	es provid	ed v	vithin	the equ	uipment	N/A		
Is it possible t	o install the	battery in a rev	vers	e polarity p	osition?	:						
					Ch	argi	ng					
Equipment S	pecification		Vo	Itage (V)			Current (A)					
												
					Battery	spec	cificati	on				
		Non-recharge	able	batteries			Rech	argeab	e batteries			
		Discharging		ntentional	C	Char	ging		Discharging	Reverse		
Manufactu	ırer/type	current (A)		harging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)		
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when above	e appropri	ate c	lata is	not ava	ilable.			
Specified batt	ery tempera	ture (°C)				:						
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Obse	rvation		
	1			-	-			1				
Supplementar	ry information	า:										
		ircuit; OC= ope						e; NS= r	no spillage of	liquid; NE=		

M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	ontaining a s	econdary lithium	N/A
Maximum s	pecified c	harging voltag	e (V)		.:		_
Maximum s	pecified c	harging curren	ıt (A)		.:		_
Highest spe	cified cha	arging tempera	ture (°C)		.:		
Lowest spec	cified cha	rging temperat	ture (°C)		.:		
Battery		Operating		Measurement		Observation	n
manufacture	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
- VS	STest		1/15/1	CS Test		WST CS TOS	,

Supplementary information:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)	N/A	
-----	-------------------------------------------------------------------------	-----	--



Shenzhen LCS Compliance Testing Laboratory Ltd.



Y	Page 47	of 78 Report No.:	LCSA02135118S
A IIII RE	份 m股份 IE	C 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

Output Circuit	Condition	11 ()()	Time (s)	I _{sc}	(A)	S ('	VA)
Circuit	Condition	U _{oc} (V)	Tille (S)	Meas.	Limit	Meas.	Limit
					8		100
					8		100

Supplementary Information:

T.2, T.3, T.4, T.5	TABLE	E: Steady force test		会测股份			N/A
Part/Locati	on	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Supplemer	ntary info	mation:					

T.6, T.9	TABLE: Impa	ABLE: Impact test								
Location/part		Material	Thickness (mm)	Height (mm)	Observation	on				
1	*	Ill								
Supplemen	tary information	· 古语控测度加		古讯检测版	Lab	一共讯检节				
CS Testino		LCS Testing	1/5	LCS Testino	1/2	LCSTes				
T.7	TABLE: Drop	test				N/A				

T.7	TABLE: Dro	o test				N/A
Location/par	t	Material	Thickness (mm)	Height (mm)	Observatio	n
,						
Supplementary information:						

T.8	TABLE	TABLE: Stress relief test				N/A	
Location/Par	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation .
VISA TO	S Testin		MSA LCS	Testing	\	LCS Test	100
Supplementary information:							

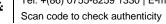
Х	TABLE: Alternative method for determining minimum clearances distances				N/A
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
Supplement	Supplementary information:				



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>







V	Pa	ge 48 of 78 Report N	No.: LCSA021351185
		IEC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
CS Tes	VIST 1 CS TOOM	VST LCS TESTING	WST CS Tes

4.1.2	TABLE: Critical components information			Р		
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Metal		Interchangeable	Interchangeable	1.5mm	IEC/EN 62368- 1	Tested with appliance
PCB		SHEN ZHEN SUN & LYNN CIRCUITS CO LTD	SL-D12	V-0, 130°C, Min. thickness 1.0mm	UL 94 UL 796	UL E234156
-Alternative	. ~	Interchangeable	Interchangeable	V-0, 130°C, Min. thickness 1.0mm	UL 94 UL 796	UL
DC Fan	开心" S Tes	YONGYIHAO ELECTRONIC CO., LTD.	YY6010H12B	12VDC 0.33A	IEC/EN 62368- 1	Tested with appliance

Supplementary information:

















Shenzhen LCS Compliance Testing Laboratory Ltd.

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-2039.



Page 49 of 78 Attachment No.1

Report No.: LCSA02135118S

	, ill	ATTITUTE TOTAL	
上语物测路	IEC62368_	1E- ATTACHMENT	一话检测
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - PART 1: SAFETY REQUIREMENTS)

Differences according to EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

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

Copyright © 2021 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.

	CENELEC COMMON MODIFICATIONS (EN)		
	Clause numbers in the cells that are shaded light greater 1EC 62368-1:2020+A11:2020. All other clause number those in the paragraph below, refers to IEC 62368-1	pers in that column, except for	
	Clauses, subclauses, notes, tables, figures and anne those in IEC 62368-1:2018 are prefixed "Z".	exes which are additional to	
立讯检测股份 LCS Testing La	with their corresponding European pub Annex ZB (normative) Special national conditional co		立 讯检测 LCS Testi
1	Modification to Clause 3 .		//
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following de	finitions:	N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB.	line on	N/A
山山山	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	工语证的	gLab
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa ² s. $E = \int_{0}^{T} p(t)^{2} dt$	Les Tes	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



Page 50 of 78

	Page 50 of 78 Attachment No.1	Report No.: L	_CSA02135118S
一语检测版	IEC62368_1E- ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.4	sound exposure level, SEL		N/A

Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative to a reference value, <i>Eo</i> , typically the 1 kHz threshold of hearing in humans.		
	Note 1 to entry: SEL is measured as A-weighted levels in dB.		
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	IST LCS TOSTI	
3.3.19.5	digital signal level relative to full scale, dBFS		N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	e	
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.		
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	rcs 16	N/A
10.6.1.1	Introduction		N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:		
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile 	LCS Tosti	



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



Page 51 of 78 Attachment No.1

Report No.: LCSA02135118S

. 115	Attachment No.1	Торог		
· 讯检测股门	IEC62368_1E- ATTACHM	ENT		上语检测
Clause	Requirement + Test	Result - Remark	1/9	Verdict
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.			
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.			
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.			
	Listening devices sold separately shall comply with the requirements of 10.6.6.	1	二五位测	
	These requirements are valid for music or video mode only.	¥	ST LCS Testil	
	The requirements do not apply to: – professional equipment;			
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.			
	hearing aid equipment and other devices for assistive listening; the following true of apple are personal music.			
	 the following type of analogue personal music players: 			
	 long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; 	工资检测股份 LCS Testing Lab	1/2	
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.			
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 			
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.		"徐测	
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	4	ET LCS Testi	
0.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz			N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic			
	fields (0 Hz to 300 GHz).			



Shenzhen LCS Compliance Testing Laboratory Ltd.

For intentional radiators, ICNIRP guidelines should

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 52 of 78 Attachment No.1

Report No.: LCSA02135118S

. A. TILL RE	Attachment No.1	ENT A THE IS	
Clause	IEC62368_1E- ATTACHMI Requirement + Test	Result - Remark	Verdict
	be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.		
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	Tinte测 Los Testin	N/A
	For classifying the acoustic output $L_{Aeq,T}$, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.		
立讯检测股 LCS Testing	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term L_{Aeq} , r) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	工讯检测股份 LCS Testing Lab	立讯检测 LCS Test
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A
154	RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme	LCS Testin	度份 g Lab



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





	Page 53 of 78 Attachment No.1	Report No.: LCSA02	21351185
- 讯检测版//	IEC62368_1E- ATTACHME	NT REALING	上田检节
Clause	Requirement + Test	Result - Remark	Verdict
	simulation noise" described in EN 50332-1. – The RS1 limits will be updated for all devices as per 10.6.3.2.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)		N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	LCS Testin	
10.6.2.4	RS3 limits		N/A
上讯检测股份 Late	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	一祖检测股份	上田检河
10.6.3	Classification of devices (new)	LCS Testing	N/A
10.6.3.1	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.		N/A
10.6.3.2	RS1 limits (new)		N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the L Aeq, τ acoustic output shall be \leq 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1	上CS Testi	



Shenzhen LCS Compliance Testing Laboratory Ltd.

 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com

Scan code to check authenticity

50332-1.





Page 54 of 78 Attachment No.1

Attachm	ent No.1	
IEC62368_1E-	ATTACHMENT	二田检测
Testing	Result - Remark	Verdict

Report No.: LCSA02135118S

Clause	Requirement + Test	Result - Remark	Verdict
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	LCS Testin	N/A
10.6.4	Requirements for maximum sound exposure	. 115	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests.	工讯检测股功 LCS Testing Lab	N/A
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.		
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional	· 讯检测	N/A
187 Los	safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. The elements of the instructional safeguard shall be as follows:	上ST LOS Testin	



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

 $\label{eq:temperature} \textit{Tel: +(86) 0755-8259 1330 | E-mail: } \underline{\textit{webmaster@lcs-cert.com}} \mid \textit{http://} \underline{\textit{www.lcs-cert.com}}$





Page 55 of 78 Attachment No.1

Report No.: LCSA02135118S

-mi 88 43	Attachine		-mi 83 (f)		1177
· iH 拉 jiii na Lab	IEC62368_1E- A	NT Lab		古田检测	
Clause	Requirement + Test	Med	Result - Remark	1/9	Verdict
Tin 检测股份	(2011-01) — element 2: "High sound pressure" or edwording — element 3: "Hearing damage risk" or edwording — element 4: "Do not listen at high volum long periods." or equivalent wording An equipment safeguard shall prevent of an ordinary person to an RS2 source intentional physical action from the ordin person and shall automatically return to level not exceeding what is specified for source when the power is switched off. The equipment shall provide a means to inform the user of the increased sound let the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activate mode of operation which allows for an outexceeding RS1. The acknowledgement of need to be repeated more than once ever cumulative listening time. NOTE 2 Examples of means include visual or audit Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative time, independent of how often and how long the process of t	e levels for exposure e without hary an output an RS1 actively evel when t he ing a utput does not ery 20 h of ble signals. e listening hersonal	工讯检测股份 LCS Testing Lab	立 正 LCS Testin	政份 g Lab TITA LCS Testi
	exposed to RS3.				NI/A
10.6.5	Requirements for dose-based system	S	1		N/A
10.6.5.1	Personal music players shall give the ware provided below when tested according to 50332-3, using the limits from this clause. The manufacturer may offer optional setter allow the users to modify when and how to receive the notifications and warnings promote a better user experience without the safeguards. This allows the users to informed in a method that best meets the capabilities and device usage needs. If soptional settings are offered, an administ example, parental restrictions, business/educational administrators, etc. able to lock any optional settings into a sconfiguration.	tings to they wish to t defeating be eir physical such trator (for		立讯检测 LCS Testin	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



Page 56 of 78 Attachment No.1

Report No.: LCSA02135118S

خلام	Attachment No.1	112	
	IEC62368_1E- ATTACHME	ENT TO THE REAL PROPERTY OF THE PARTY OF THE	
Clause	Requirement + Test	Result - Remark	Verdict
	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.		
10.6.5.2	Dose-based warning and requirements		N/A
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	LCS Tostic	
	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.		
10.6.5.3	Exposure-based requirements		N/A
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.		
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the El may be disabled.	LCS Tostin	
10.6.6	signal), the EL may be disabled. Requirements for listening devices (headphone	s. earphones. etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	o, carpitotico, ctor/	N/A
	With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in		



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



	Page 57 of 78 Attachment No.1	Report No.: LCSA02	:135118S
上语检测版/ALab	IEC62368_1E- ATTACHME	ENT	上田检河
Clause	Requirement + Test	Result - Remark	Verdict
	volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.		
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		
10.6.6.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the LAeq, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.		N/A
10.6.6.3	Cordless listening devices In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards,	工用检测股份 LCS Testing Lab	N/A
	where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned	t	



10.6.6.4

programme simulation noise, the LAeq, τ acoustic output of the listening device shall be ≤ 100 dB with

Measurements shall be made in accordance with

Modification to the whole document

an input signal of -10 dBFS.

EN 50332-2 as applicable.

Measurement method

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http://www.lcs-cert.com | http://www.lcs-cert.com | http://www.lcs-cert.com | webmaster@lcs-cert.com | http://www.lcs-cert.com | webmaster@lcs-cert.com | http://www.lcs-cert.com | webmaster@lcs-cert.com | http://www.lcs-cert.com | webmaster@lcs-cert.com | webmaster@lcs-cert.com | http://www.lcs-cert.com | webmaster@lcs-cert.com | <a href="mailto:webma

N/A



Page 58 of 78 Attachment No.1

Report No.: LCSA02135118S

IEC62368_1E- ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	Vei

	Do lis		"country" note	s in the refe	erence docume	ent according	to the following	ıg	Р
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2		
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3		
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	-	115
- 113	1,9	Table 13						M.	设(D)
118/ LC	5 T	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note		
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4		
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2		
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note		
立语检测股份 LCS Testing Lak	0	Y.4.5	Note						立语检测
	N/I	a dification	to Clause 4						
1		odification							P
1	No ele		orng note. e of certain substa						P
5	M	odification	to 4.Z1						









Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 59 of 78

Page 59 of 78 Attachment No.1	Report No.: LCSA02135118S
IEC62368_1E- ATTACHMENT	则股份

Clause	Requirement + Test	Result - Rem	ark)	Verdict
4.Z1	Add the following new subclause after 4.9:			Р
	To protect against excessive current, short-circ and earth faults in circuits connected to an a.c. mains, protective devices shall be included eit as integral parts of the equipment or as parts of building installation, subject to the following, a) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirem of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input the equipment such as the supply cord, appliant coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by proted devices in the building installation; c) it is permitted for pluggable equipment type or permanently connected equipment, to religible dedicated overcurrent and short-circuit protect in the building installation, provided that the most protection, e.g. fuses or circuit breakers, is for specified in the installation instructions.	her of the o, b) nents he ut to nce ective e B y on ion eans	上CS Testi	
	If reliance is placed on protection in the buildin installation, the installation instructions shall so state, except that for pluggable equipment ty the building installation shall be regarded as providing protection in accordance with the rat of the wall socket outlet.	pe A	E	
6	Modification to 5.4.2.3.2.4	·		
5.4.2.3.2.4	Add the following to the end of this subclause:			N/A
	The requirement for interconnection with exter circuit is in addition given in EN 50491-3:2009			
7	Modification to 10.2.1			
10.2.1	Add the following to c) and d) in table 39:			N/A
	For additional requirements, see 10.5.1.			
8	Modification to 10.5.1			



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





Page 60 of 78 Attachment No.1

Report No.: LCSA02135118S

	Attachment No.1		
上语拉测版 Lat	IEC62368_1E- ATTACHME	NT.	上田检测
Clause	Requirement + Test	Result - Remark	Verdict
40.5.4	Add the following often the first many many		N1/A
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	立 LCS TOSTI	N/A
立讯检测股份 Los Testing Lab	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	工 用位测股份 LCS Testing Lab	立讯检测 LCS Tost
9	Modification to G.7.1		
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		Р
10	Modification to Bibliography		



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Pag

ge 61 of 78	Report No.: LCSA02135118S
Attachment No.1	

士语检测股份 Lal	ة مد ٥	IEC62368_1E- ATTACI	HMENT		一田检测
Clause	Requirement + Test	STestins	Result - Remark	119	Verdict
	Add the following no	tes for the standards indica	ated:		N/A
	IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60364 IEC 60601-2-4 IEC 60664-5 IEC 61032:1997 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-6 IEC 61643-1 IEC 61643-311 IEC 61643-321 IEC 61643-331	NOTE Harmonized as EN NOTE Harmonized as HD NOTE Harmonized as EN NOTE some parts harmon NOTE Harmonized as EN	60269-2. 60309-1. ized in HD 384/HD 60364 series. 60601-2-4. 60664-5. 61032:1998 (not modified). 61508-1. 61558-2-1. 61558-2-4. 61558-2-6. 61643-1. 61643-311. 61643-311.		全份 g Lab
11	ADDITION OF ANNE				
ZB	·	L NATIONAL CONDITION	NS (EN)		Р
4.1.15 立形检测股份 LCS Testing Lal	To the end of the sub added: Class I pluggable end for connection to other network shall, if safet reliable earthing or if are connected betwee accessible parts, ha	ty relies on connection to surge suppressors en the network terminals a ve a marking stating that the onnected to an earthed	nd		N/A
	be as follows: In Denmark : "Appara en stikkontakt med jo stikproppens jord." In Finland : "Laite on varustettuun pistoras In Norway : "Apparate stikkontakt"		B ab		受价 g Lab



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 62 of 78 Attachment No.1

Report No.: LCSA02135118S

-mi BB f	Attachment IEC62368_1E- AT		NT MENT		-all
Clause	Requirement + Test	AOFINE	Result - Remark		Verdict
4.7.3	United Kingdom	13/	. C. 2	1/2	N/A
	To the end of the subclause the following is	s added:			
	The torque test is performed using a socker complying with BS 1363, and the plug part assessed to the relevant clauses of BS 136 see Annex G.4.2 of this annex	shall be			
5.2.2.2	Denmark				N/A
	After the 2nd paragraph add the following:				n.447
	A warning (marking safeguard) for high tou current is required if the touch current excellimits of 3,5 mA a.c. or 10 mA d.c.		115		g Lab
5.4.11.1 and	Finland and Sweden				N/A
Annex G	To the end of the subclause the following is	s added:			
	For separation of the telecommunication no from earth the following is applicable:	etwork			
	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 shall pass the electric strength test below		~ 田检测股份		二四位测
	one layer having a distance through install least 0,4 mm, which shall pass the elstrength test below.		LCS Testing		LCS Testi
	If this insulation forms part of a semiconducomponent (e.g. an optocoupler), there is r	าด			
	distance through insulation requirement for insulation consisting of an insulating compo- completely filling the casing, so that clearar and creepage distances do not exist, if the	ound nces			
	component passes the electric strength tes accordance with the compliance clause be in addition				e (रि
	 passes the tests and inspection criteria o with an electric strength test of 1,5 kV m by 1,6 (the electric strength test of 5.4.9 performed using 1,5 kV), 	ultiplied	1/2		gLab
	and				
	 is subject to routine testing for electric s during manufacturing, using a test volta kV. 				
	It is permitted to bridge this insulation with capacitor complying with EN 60384-14:200 subclass Y2.				



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>





Page 63 of 78 Attachment No.1

Report No.: LCSA02135118S

IEC62368_1E- ATTACHMENT					
Clause	Requirement + Test	MS	Result - Remark	MS	Verdict
	A capacitor classified Y3 according to EN 60 14:2005, may bridge this insulation under the following conditions:	384-			
	the insulation requirements are satisfied by having a capacitor classified Y3 as define EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2 defined in 5.4.11;	d by			
	the additional testing shall be performed of the test specimens as described in EN 60 14;		15 立流	位测图 Testing	
	the impulse test of 2,5 kV is to be performed the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-		152 100		
5.5.2.1	Norway	17.			N/A
	After the 3rd paragraph the following is adde	d:			
	Due to the IT power system used, capacitors required to be rated for the applicable line-to-voltage (230 V).				
5.5.6	Finland, Norway and Sweden		- 115		N/A
	To the end of the subclause the following is a	added:	工语检测度77 Testing Lab	Ve.	
	Resistors used as basic safeguard or bridgi basic insulation in class I pluggable equip type A shall comply with G.10.1 and the test G.10.2.	ment	100	-124	
5.6.1	Denmark				N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket outlets the protection for pluggable equipment type A shall be an integral part of equipment. Justification: In Denmark an existing 13 A socket outlet caprotected by a 20 A fuse.	the	TEL TIM	位词则是 Testin	
5.6.4.2.1	Ireland and United Kingdom				N/A
	After the indent for pluggable equipment ty the following is added: — the protective current rating is taken to b A, this being the largest rating of fuse used in mains plug.	e 13			



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 64 of 78 Attachment No.1

Report No.: LCSA02135118S

IEC62368_1E- ATTACHMENT					
Clause	Requirement + Test	WS	Result - Remark	Verdict	
5.6.4.2.1	France After the indent for pluggable equipment the following is added: – in certain cases, the protective current the circuit supplied from the mains is take instead of 16 A.	t rating of		N/A	
5.6.5.1	To the second paragraph the following is a The range of conductor sizes of flexible conductor accepted by terminals for equipment with current over 10 A and up to and including 1,25 mm ² to 1,5 mm ² in cross-sectional ar	ords to be a rated 13 A is:	立语检测 10.70511	N/A	
5.6.8	Norway To the end of the subclause the following Equipment connected with an earthed mais classified as class I equipment. See th Norway marking requirement in 4.1.15. THEC 60417-6092, as specified in F.3.6.2, i accepted.	is added: iins plug ne ne symbol		N/A	
5.7.6 立语检测股份	Denmark To the end of the subclause the following The installation instruction shall be affixed equipment if the protective conductor conductor conductor in the protective conductor conductor in the protective conductor conductor in the protective	to the	工讯检测股份	N/A	
5.7.6.2	Denmark To the end of the subclause the following The warning (marking safeguard) for high current is required if the touch current or t protective current exceed the limits of 3,5	is added: touch he	CS 10	N/A	
5.7.7.1	Norway and Sweden To the end of the subclause the following The screen of the television distribution synormally not earthed at the entrance of the and there is normally no equipotential bor system within the building. Therefore the protective earthing of the buinstallation needs to be isolated from the sa cable distribution system. It is however accepted to provide the insuexternal to the equipment by an adapter of interconnection cable with galvanic isolated may be provided by a retailer, for example. The user manual shall then have the following information in Norwegian and Swellanguage respectively, depending on in we country the equipment is intended to be upon the supplement of the supplement is intended to be upon the supplement is intended to be upon the supplement in the supplement is intended to be upon the supplement in the supplement in the supplement is intended to be upon the supplement in the supplement in the supplement in the supplement is intended to be upon the supplement in the sup	is added: ystem is e building ading uilding screen of lation or an or, which e. wing or dish hat	LCS Testi	N/A	



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com





Page 65 of 78 Attachment No.1

Report No.: LCSA02135118S

-a 1120	Attachment r		- A 11-2		
可检测股77	IEC62368_1E- ATT/	ACHME	NT。测度仍		Tiet me
Clause	Requirement + Test	MSA	Result - Remark	VS	Verdict
TE IC	"Apparatus connected to the protective earth the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using cable, may in some circumstances create a hazard. Connection to a television distribution system therefore has to be provided through device providing electrical isolation below a confrequency range (galvanic isolator, see EN 6 11)" NOTE In Norway, due to regulation for CATV-installation in Sweden, a galvanic isolator shall provide electrical in below 5 MHz. The insulation shall withstand a dielectric of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text valso be accepted in Norway): "Apparater som er koplet til beskyttelsesjord nettplugg og/eller via annet jordtilkoplet utstyr — og er tilkoplet et koaksialbasert kabe	coaxial fire n a certain 0728- ns, and sulation strength will	\\	立 正 LCS Testin	Lab
	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 kabelnettet." Translation to Swedish: "Apparater som är kopplad till skyddsjord via vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vimedföra risk för brand. För att undvika detta vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och	I-TV jordat ssa fall skall	工讯检测股份 LCS Testing Lab		立用位 ^形 LCS Tes"
8.5.4.2.3	kabel-TV nätet.". United Kingdom	JII			N/A
	Add the following after the 2 nd dash bullet in paragraph:	3 rd			. 4/11
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 required where there is a risk of personal injuried.) is	15		g Lab



*



Page 66 of 78 Attachment No.1

Report No.: LCSA02135118S

44:1111段份	Attachment N IEC62368_1E- ATTA		NT、公测股份		اللة
Clause	Requirement + Test	WSA	Result - Remark	WS.	Verdict
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:		P	-1100	N/A
工工	To protect against excessive currents and sho circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 B.4 shall be conducted using an external minicircuit breaker complying with EN 60898-1, Trated 32A. If the equipment does not pass the tests, suitable protective devices shall be incluas an integral part of the direct plug-in equipment , until the requirements of Annexe B.3.1 and B.4 are met	and ature ype B, ese uded		工 注 Tostin	变份 g Lab
G.4.2	Denmark				N/A
	To the end of the subclause the following is a Supply cords of single phase appliances having rated current not exceeding 13 A shall be prowith a plug according to DS 60884-2-D1:2011 CLASS I EQUIPMENT provided with socketowith earth contacts or which are intended to be used in locations where protection against incontact is required according to the wiring rule shall be provided with a plug in accordance we standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 of 60309-2.	ng a vided			立讯检测 LCS Testi
	Mains socket outlets intended for providing pot to Class II apparatus with a rated current of 2 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, DS or DK 1-7a Justification:	,5 A			支份 g Lab



1



Page 67 of 78 Attachment No.1

Report No.: LCSA02135118S

可給測度作	IEC62368_1E-7	ATTACHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom	100	N/A
	To the end of the subclause the following	g is added:	
	The plug part of direct plug-in equipmen	t shall be	
	assessed to BS 1363: Part 1, 12.1, 12.2		
	12.9, 12.11, 12.12, 12.13, 12.16, and 12 that the test of 12.17 is performed at not		
	125 °C. Where the metal earth pin is rep		
	an Insulated Shutter Opening Device (IS		
	requirements of clauses 22.2 and 23 als		
G.7.1	United Kingdom	会测度份	N/A
	To the first paragraph the following is ad	ded:	LCS Testing Lab
	Equipment which is fitted with a flexible	cable or	
	cord and is designed to be connected to		
	socket conforming to BS 1363 by means		
	flexible cable or cord shall be fitted with		
	plug' in accordance with the Plugs and Setc. (Safety) Regulations 1994, Statutory		
	Instrument 1994 No. 1768, unless exem		
	those	prod by	
	regulations.		
	NOTE "Standard plug" is defined in SI 1768:1994	and	
	essentially means an approved plug conforming to an approved conversion plug.	BS 1363 or	FAL
G.7.1	Ireland	Timesting Lab	N/A
	To the Cost of the College Cost of the College Cost of the College Cost of the College Cost of the Cos	1/3/1 rcs	Tog .
	To the first paragraph the following is ad	ded:	
	Apparatus which is fitted with a flexible of	eable or	1
	cord shall be provided with a plug in acc		1
	with Statutory Instrument 525: 1997, "13		1
	and Conversion Adapters for Domestic U		
	Regulations: 1997. S.I. 525 provides for		
	recognition of a standard of another Mer		
G.7.2	which is equivalent to the relevant Irish S Ireland and United Kingdom	Stanuaru	N/A
O.1.2	in eland and Officed Kingdom		IN/A
	To the first paragraph the following is ad	ded:	- 1 P 4 4 7
	A newer supply sord with a sound veter of	1.25 mm ²	古·开拉河 Lab
	A power supply cord with a conductor of is allowed for equipment which is rated or		CS Testing
	and up to and including 13 A.	SVGI TO A	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
		,	



Page 68 of 78 Attachment No.1

. 115	Attachment No.	ı	. 115		
对检测股约	IEC62368_1E- ATTACH	IME	NT大河股門		7
Clause	Requirement + Test		Result - Remark	VIS	Verdict
10.5.2	Germany	V			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.				
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	/e	To the state of th	五文形检测的 LCS Testin	全份 g Lab
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, I 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de)-			















Report No.: LCSA02135118S





Page 69 of 78 Attachment No.1

	Allaci	IIIIEIIL NO. I			
IEC62368_1E- ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		

Report No.: LCSA02135118S

ZD	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE C	ORDS (EN)	N/A
	Type of flexible cord	Code de	signations	1 N/A
		IEC	CENELEC	-
	PVC insulated cords		I	1
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	经份
TE LCS	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	ua Lab
	Rubber insulated cords			1
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	•		1
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	44.7
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	I ICS Tes
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
	Cords insulated and sheathed with halogen- free thermoplastic compounds			-
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	



Shenzhen LCS Compliance Testing Laboratory Ltd.

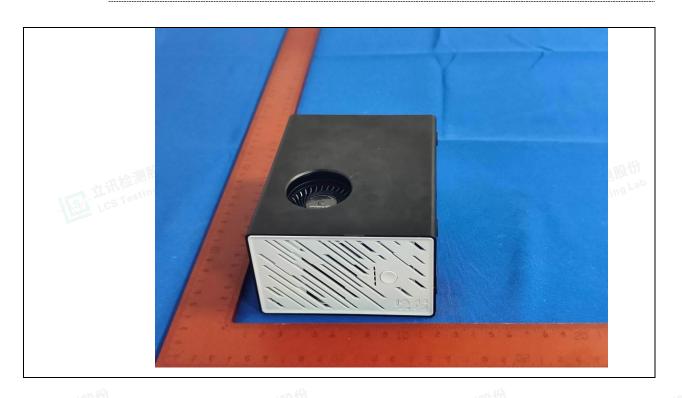


Page 70 of 78

Attachment No.2

Report No.: LCSA02135118S

Details of: External View



Details of: External View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 71 of 78

Attachment No.2

Report No.: LCSA02135118S

Details of: External View



Details of: External View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



Page 72 of 78

Attachment No.2

Report No.: LCSA02135118S

Details of: External View



Details of: External View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



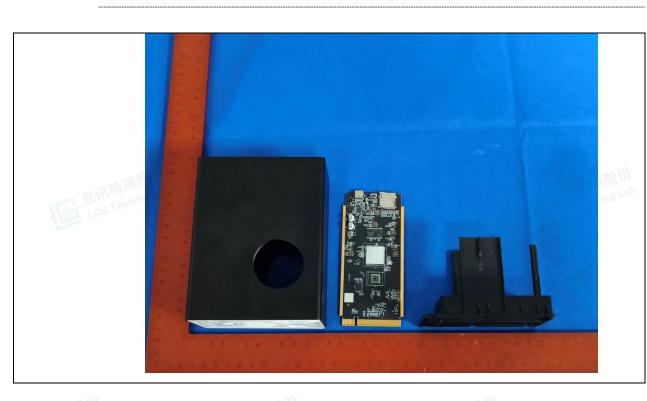
Page 73 of 78 **Attachment No.2**

Report No.: LCSA02135118S

Internal View Details of:



Details of: Internal View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

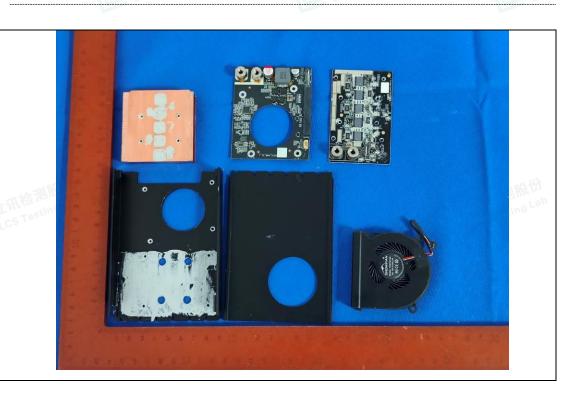
Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com



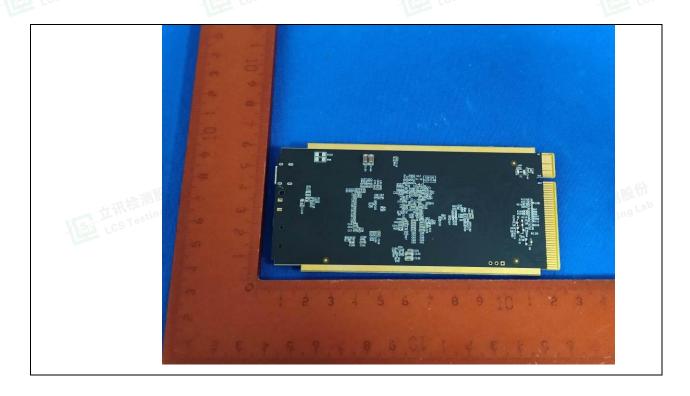
Page 74 of 78 **Attachment No.2**

Report No.: LCSA02135118S

Details of: Internal View



PCB View Details of:





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>



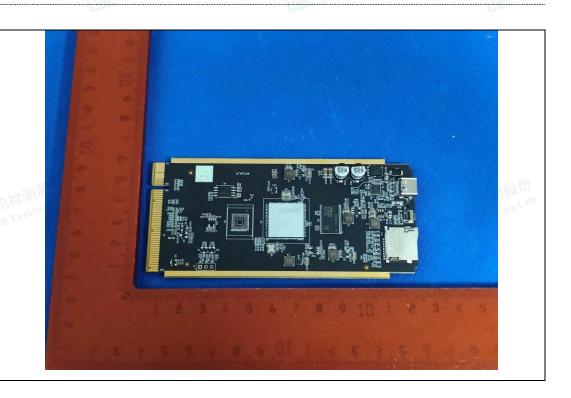
Page 75 of 78

Attachment No.2

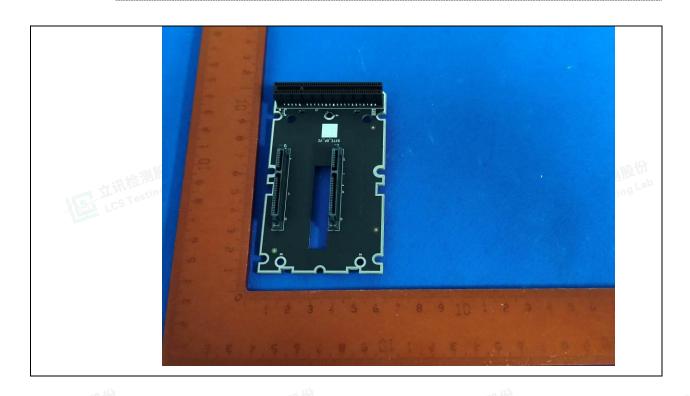
Report No.: LCSA02135118S

Details of:

PCB View



Details of: PCB View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>

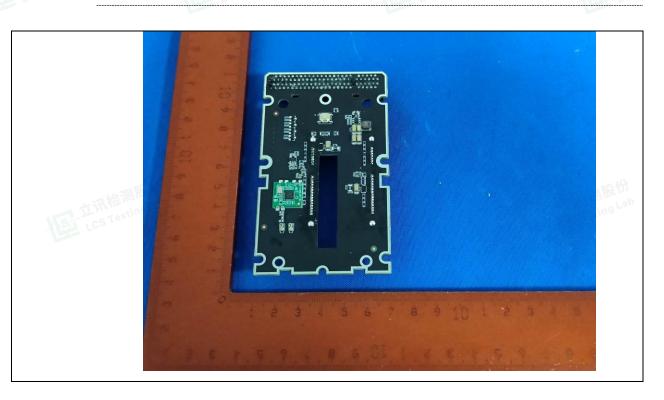


Page 76 of 78

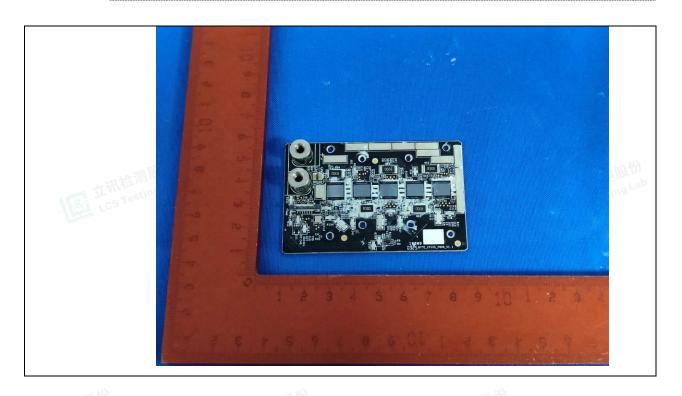
Attachment No.2

Report No.: LCSA02135118S

Details of: PCB View



Details of: PCB View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: <u>webmaster@lcs-cert.com</u> | http:// <u>www.lcs-cert.com</u>

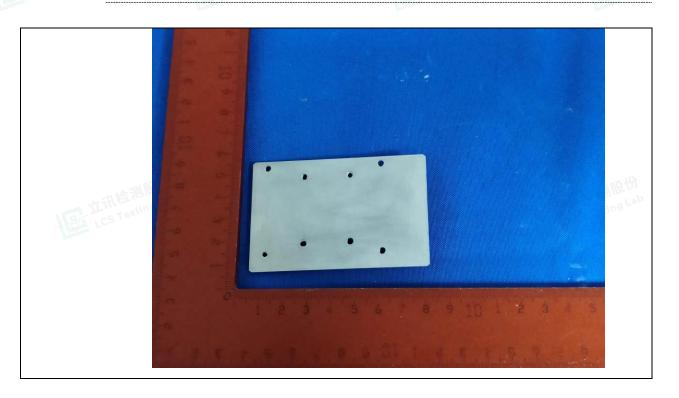


Page 77 of 78

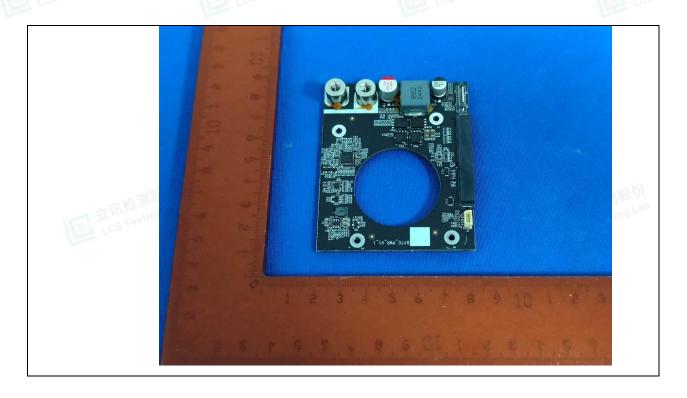
Attachment No.2

Report No.: LCSA02135118S

Details of: PCB View



Details of: PCB View





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

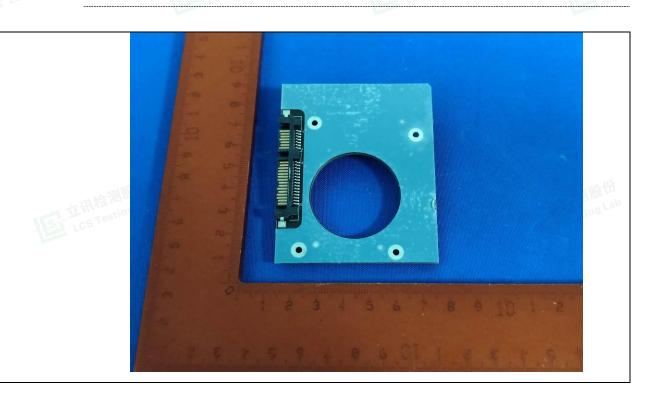


Page 78 of 78 **Attachment No.2**

Report No.: LCSA02135118S

Details of:

PCB View



---End of Test report---



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com Scan code to check authenticity