

	TEST REPORT			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	EN 62368-1			
Audio/video, informa	ation and communication technology equipment			
	Part 1: Safety requirements			
Report Number:	PTC21022304813S-LD01			
Date of issue:	Apr 21, 2021			
Total number of pages:	78			
Tested by (name + signature):	Adam Li Project Engineer			
Approved by (name + signature) :	Project Engineer Adam Li Chris Du Reviewer			
Testing Laboratory	Precise Testing & Certification (Guangdong) Co., Ltd.			
Address:	Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.			
Applicant's name:	Guangdong Green Power Technology Co.,Ltd.			
Address:	Room 401,Building NO.2,Hongyuan Road 6,Huangpu District,Guangzhou City			
Test specification:	to do do de la la de la de la de			
Standard::	EN 62368-1:2014+A11:2017			
Test procedure:	CE-LVD			
Non-standard test method:	N/A			
Test Report Form No	IEC62368_1B			
Test Report Form(s) Originator:	UL (US)			
Master TRF:	2014-03			
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Test item description:	AC Adapter		
Trade Mark:	绿硕能/LSN		
Manufacturer	Same as Applicant		
Address:	Same as Applicant		
Model/Type reference:	LSN-18G-0500YYYY;LSN-18G-0840YYYY;LSN-18G-0900YYYY; LSN-18G-1050YYYY;LSN-18G-1200YYYY;LSN-18G-1350YYYY; LSN-18G-1450YYYY;LSN-18G-1485YYYY;LSN-18G-1500YYYY; LSN-18G-1850YYYY;LSN-18G-1900YYYY;LSN-18G-1950YYYY; LSN-18G-2000YYYY;LSN-18G-2400YYYY;LSN-18G-3000YYYY; LSN-18G-3600YYYY;LSN-18G-4200YYYY;LSN-18G-4800YYYY; LSN-18G-5500YYYY;LSN-18G-5600YYYY;LSN-18G-PD		
	(XXX=050-560: represents the output voltage of 5V- 56V;YYYY=0001-0600 represents 00.1A-6.0A with A maximum output power of 65W)PD=5-20.5V, maximum current 3.25A,MAX Pout=65W)		
Power Rating:	Input: 100-240V, 50/60Hz, 1.5A,75W		
	Output: 5-56Vdc, 6A		

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

Attachment No.1 - Group Differences and National Differences.

Attachment No.2 - Photo documentation.

Tests performed (name of test and test clause):	Testing location:		
Conduct thorough testing in the harshest of conditions.	Precise Testing & Certification (Guangdong) Co., Ltd.		
The models LSN-18G-05000600,LSN-18G- 56000116 have been selected for the tests	Building 1, No. 6, Tongxin Road, Dongcheng Street Dongguan, Guangdong, China.		
Summary of compliance with National Differences List of countries addressed	s:		
For National Differences see end of this test report.			



Copy of marking plate

Report No. PTC21022304813S-LD01

绿硕能	. 0 / /
AC Aduptor (电源语配装) MCDEL(型程)LSN-18G-5600116 MADE IN CHINA(中面制造)	
NPUT(編入) + 100-240V-50/80Hz 1.5A OUTPUT(編出) + 56V == 1.16A POWER(动車) + MAX 65W	
绿硕能。	•
AC Adapter (电源活配根) MODEL(型型) LSN-18G-0500502	
MADE IN CHINA(中国制造)	11년 🖀
INPUT(輸入) 1 100-240V-50/60Hz 1.5A OLITPUT(輸出) (5V=6.0A POWER(法部) (MAX 30W	CE F© Rohs
绿硕能。	
AC Adapter (电源适配器) MODEL/型号11595-18G-PD	
MODEL(1941)138-38(394) MADE IN CHINA(中国制造)	
INPUT(編入) + 109-240V-50/60Hz 1.5A OUTPUT(補出) + 5V/3A.9V/3A.15V/3A 20V/3.25A POWER(35年) + MAX 65W	CE F© Rohs

Note:

- As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

-The above markings are the minimum requirements required by the safety standard, For the final production, the additional markings which do not give rise to misunderstanding may be added.

-The high of "CE" and "WEEE" at least 5mm and 7mm.

- The Markings are attached on external enclosure and visible during normal use.
- Since similar label used, only label for models above listed to represent other similar ones.



TEST ITEM PARTICULARS:		
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 - ES1 ES2 ES3	
Supply % Tolerance:	 □ +10%/-10% □ +20%/-15% □ +15 %/ -15 % □ None 	
Supply Connection – Type:	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector in other: 	
Considered current rating of protective device as part of building or equipment installation:	16 A Installation location: 🛛 building; 🗌 equipment	
Equipment mobility:	 ☐ movable ☐ hand-held transportable ☐ stationary for building-in ☐ direct plug-in ☐ rack-mounting ☐ wall-mounted 	
Over voltage category (OVC):	□ OVC I ⊠ OVC II □ OVC III □ OVC IV □ other:	
Class of equipment:	🗌 Class I 🛛 Class II 🗌 Class III	
Access location	\Box restricted access location \boxtimes N/A	
Pollution degree (PD):	□ PD 1	
Manufacturer's specified maximum operating ambient	25 °C	
IP protection class:	□ IPX0 □ IP20	
Power Systems	⊠ TN □ TT □ IT - 230 V L-L	
Altitude during operation (m):	⊠ 2000 m or less □ 5000 m	
Altitude of test laboratory (m):	⊠ 2000 m or less □ m	
Mass of equipment (kg):	⊠ 0.19Kg Max.	

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POSSIBLE TEST CASE VERDICTS:	6 8 8 8 8 8 8 8 8 8		
- test case does not apply to the test object	N/A		
- test object does meet the requirement	P (Pass)		
- test object does not meet the requirement	F (Fail)		
TESTING:	the state of the state of the state of		
Date of receipt of test item	. 2021-04-13		
Date (s) of performance of tests	2021-04-14 to 2021-04-19		
GENERAL REMARKS:	さいざ すいが がっさ はいざい		
"(See Enclosure #)" refers to additional informat "(See appended table)" refers to a table appended Throughout this report a □ comma / ⊠ point is	to the report.		
Manufacturer's Declaration per sub-clause 4.2.5 o	f IECEE 02:		
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	 □ Yes ⊠ Not applicable .: 		
When differences exist; they shall be identified in	the General product information section.		
Name and address of factory (ies)	: Same as Applicant		
GENERAL PRODUCT INFORMATION:			
1.The product is a class II AC Adapter, Input is 100- 2.We tested the output as DC 56V1.16A and DC 5V			



ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

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

ES1

Example: +5 V dc input

Primary circuit

Source of electrical energyCorresponding classification (ES)Primary circuitES3Output circuitES1Electrically-caused fire (Clause 6):
(Note: List sub-assembly or circuit designation and corresponding energy source classification)
Example: Battery pack (maximum 85 watts):PS2Source of power or PISCorresponding classification (PS)

Output of power terminal

Injury caused by hazardous substances (Clause 7)

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

PS3 PS3

Example: Liquid in filled component	Giycol		
Source of hazardous substances	Corresponding chemical		
N/A	N/A		

Mechanically-caused injury (Clause 8)

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

Example. Wai mount unit MS2		
Source of kinetic/mechanical energy	Corresponding classification (MS)	
Sharp edges and corners	MS1	
Equipment mass	MS1	

Thermal burn injury (Clause 9)

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

Source of thermal energy	Corresponding classification (TS)		
External enclosure surfaces	TS3		



Radiation (Clause 10)

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

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

ENERGY SOURCE DIAGRAM

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

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS



OVERVIEW OF EMPLOYED SAF	EGUARDS				
Clause	Possible Hazard	Possible Hazard			
5.1	Electrically-caused injury				
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES3: primary circuit	N/A	N/A	Transformer Enclosure	
Ordinary	ES1: Output connector	N/A	N/A	N/A	
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)		Basic	Supplementary	Reinforced	
Combustible materials within equipment	PS3: All circuit	Equipment safeguards (no ignition occurs)	Fire enclosure	N/A	
Output connector	PS3: Secondary output connector	Equipment safeguards (no ignition occurs)	Equipment safeguard	N/A	
7.1	Injury caused by hazardou	us substances	;		
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused inju	гу			
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	MS1: Mass of the unit	N/A	N/A	N/A	
Ordinary	MS1: Edges and corners	N/A	N/A	N/A	
9.1	Thermal Burn				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS3: metal enclosure	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	



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

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



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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	Safeguard components are certified to IEC and/or national standards and are used correctly within their ratings.	Ρ	
4.1.3	Equipment design and construction	S. B. S. B. S. S.	Р	
4.1.15	Markings and instructions:	(See Annex F)	Р	
4.4.4	Safeguard robustness	Building-in equipment	N/A	
4.4.4.2	Steady force tests	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
4.4.4.3	Drop tests:	81.42.47.8.47.1	N/A	
4.4.4.4	Impact tests:	1 8 8 8 8 B	N/A	
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	18 8 8 8 8 8 1	N/A	
4.4.4.6	Glass Impact tests		N/A	
4.4.4.7	Thermoplastic material tests:		N/A	
4.4.4.8	Air comprising a safeguard	1 2 2 B & B & B 1	N/A	
4.4.4.9	Accessibility and safeguard effectiveness		N/A	
4.5	Explosion	No explosion observed during normal / abnormal / single fault conditions.	Ρ	
4.6	Fixing of conductors		Р	
4.6.1	Fix conductors not to defeat a safeguard		Р	
4.6.2	10 N force test applied to:	10 N pull / push test performed for all relevant conductors.	Р	
4.7	Equipment for direct insertion into mains socket - outlets	いににににに	N/A	
4.7.2	Mains plug part complies with the relevant standard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
4.7.3	Torque (Nm):	888888	N/A	
4.8	Products containing coin/button cell batteries		N/A	
4.8.2	Instructional safeguard		N/A	
4.8.3	Battery Compartment Construction	1 1 1 1 1 1 1	N/A	
1.1	Means to reduce the possibility of children			



EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdic	
- 2-7	removing the battery	1000000	<u></u>	
4.8.4	Battery Compartment Mechanical Tests	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A	
4.8.5	Battery Accessibility		N/A	
4.9	Likelihood of fire or shock due to entry of conductive object		N/A	
5	ELECTRICALLY-CAUSED INJURY		Р	
5.2.1	Electrical energy source classifications	(See appended table 5.2)	Р	
5.2.2	ES1, ES2 and ES3 limits	(See appended table 5.2)	Р	
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	Р	
5.2.2.3	Capacitance limits	(See appended table 5.2)	Р	
5.2.2.4	Single pulse limits:	6.6.6.6.8.8.	N/A	
5.2.2.5	Limits for repetitive pulses:		N/A	
5.2.2.6	Ringing signals	1888888	N/A	
5.2.2.7	Audio signals:	6	N/A	
5.3	Protection against electrical energy sources	Building-in equipment	N/A	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	くややややす	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	くにっき やん に	N/A	
5.3.2.2	Contact requirements	くにはんにに	N/A	
. 18	a) Test with test probe from Annex V		N/A	
60	b) Electric strength test potential (V)		N/A	
1.20	c) Air gap (mm):	6 8 8 8 8 8 2 4	N/A	
5.3.2.4	Terminals for connecting stripped wire		N/A	
5.4	Insulation materials and requirements	レヤーレービーレー	Р	
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T except natural rubber, hygroscopic materials or asbestos are not used as insulation.	Ρ	
5.4.1.3	Humidity conditioning	(See clause 5.4.8)	Р	
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Ρ	



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Clause	Requirement + Test	Result - Remark	Verdict	
5.4.1.5	Pollution degree:	PD2	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied.	N/A	
5.4.1.5.3	Thermal cycling	888888	N/A	
5.4.1.6	Insulation in transformers with varying dimensions		N/A	
5.4.1.7	Insulation in circuits generating starting pulses		N/A	
5.4.1.8	Determination of working voltage	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Р	
5.4.1.9	Insulating surfaces		N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		Ρ	
5.4.1.10.2	Vicat softening temperature:		N/A	
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	Р	
5.4.2	Clearances	Procedure 2 is higher. Hence the determination of clearance is by procedure 2. (See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Р	
5.4.2.2	Determining clearance using peak working voltage	0.10.00.00.00.00	Р	
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Ρ	
85 8	a) a.c. mains transient voltage:	2500 Vpeak		
12.1	b) d.c. mains transient voltage:	1 1 1 1 1 1 1 1		
	c) external circuit transient voltage:			
1.1	d) transient voltage determined by measurement			
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	Specified the equipment op be operated up to 5000m above sea level the required clearance is multiplied by the altitude correction factor 1.48 according to table 17. (See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Ρ	
5.4.3	Creepage distances:	(See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Р	
5.4.3.1	General	See below.	Р	



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.3.3	Material Group:	Illa or Illb	
5.4.4	Solid insulation	888888	Р
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2, 5.4.4.5 c), 5.4.4.9)	Р
5.4.4.3	Insulation compound forming solid insulation	Certified source of photo couplers used. (See append table 4.1.2)	Р
5.4.4.4	Solid insulation in semiconductor devices	(See clause 5.4.4.3)	Р
5.4.4.5	Cemented joints	2	N/A
5.4.4.6	Thin sheet material	1 2 2 6 6 6 1.	Р
5.4.4.6.1	General requirements	The thin sheet materials of polyester tape used in transformer.	Р
5.4.4.6.2	Separable thin sheet material	Two layers of insulating tape provided as double/reinforced insulation and each layer passed the electric strength test for reinforced insulation. See appended Table 5.4.9.	Ρ
181.1	Number of layers (pcs):	2-layer min.	Р
5.4.4.6.3	Non-separable thin sheet material	8 2 2 8 8 8 8 1	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	1. A. B. A. A.	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	(See Annex G5 and G6)	Р
5.4.4.9	Solid insulation at frequencies >30 kHz	1 S. S. S. S. S.	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General	666666	N/A
5.4.5.2	Voltage surge test	P. R. R. R. R. 19 18	N/A
21.3	Insulation resistance (MΩ):		
5.4.6	Insulation of internal wire as part of supplementary safeguard:		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning	Electric strength test conducted after humidity treatment.	Р
1000	Relative humidity (%):	95	



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Clause	Requirement + Test	Result - Remark	Verdict
199	Temperature (°C):	40	<u> </u>
18.8	Duration (h):	120	
5.4.9	Electric strength test:	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for a solid insulation type test	Method 1 used.	Р
5.4.9.2	Test procedure for routine tests	1 2 10 2 2 10 10 1	Р
5.4.10	Protection against transient voltages between external circuit	1. 1. 1. 1. 1. 1. 1.	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	1. 10. 10. 10. 10. 10. 10.	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:	1 8 8 8 8 8 8 V	N/A
5.4.11	Insulation between external circuits and earthed circuitry	マイチアメント	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	1 6 6 6 6 6 8 V	N/A
5.4.11.2	Requirements	1 - M. 186 - M. 181 - M. 19	N/A
10.8	Rated operating voltage U _{op} (V):		
181	Nominal voltage U _{peak} (V):	8 8 8 8 8 8 8	
	Max increase due to variation U _{sp} :	01.20 x0 x0 x0 x0 x0	
10.1	Max increase due to ageing ΔU_{sa} :		
88	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	1 8 8 8 8 8 8 8	
5.5	Components as safeguards		Р
5.5.1	General	See below	Р
5.5.2	Capacitors and RC units	X and Y Capacitors comply with IEC 60384-14. (See appended table 4.1.2)	Ρ
5.5.2.1	General requirement	201.02 20 20 20 30 3	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	Ρ
5.5.3	Transformers	(See Annex G.5.3)	Р
5.5.4	Optocouplers	(See appended Table 4.1.2.)	Р
5.5.5	Relays	(See appended Table 4.1.2.)	Р



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Clause	Requirement + Test	Result - Remark	Verdict	
5.5.6	Resistors	<u> </u>	N/A	
5.5.7	SPD's	マボルトゲーム	N/A	
5.5.7.1	Use of an SPD connected to reliable earthing		N/A	
5.5.7.2	Use of an SPD between mains and protective earth		N/A	
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable		N/A	
5.6	Protective conductor	କାର୍ଣ୍ଣ ହୋଇମାର	N/A	
5.6.2	Requirement for protective conductors	いはけんいにん	N/A	
5.6.2.1	General requirements		N/A	
5.6.2.2	Colour of insulation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
5.6.3	Requirement for protective earthing conductors	Building-in equipment, shall be considered in the end-product.	N/A	
4.19.	Protective earthing conductor size (mm ²):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
5.6.4	Requirement for protective bonding conductors		N/A	
5.6.4.1	Protective bonding conductors	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
0.0.0	Protective bonding conductor size (mm ²):	01.101.101.10		
196	Protective current rating (A):			
5.6.4.3	Current limiting and overcurrent protective devices	1 1 1 1 1 1 1 1 1	N/A	
5.6.5	Terminals for protective conductors	1 1 1 1 1 1 1 1 1 1	N/A	
5.6.5.1	Requirement		N/A	
1.	Conductor size (mm ²), nominal thread diameter (mm):		N/A	
5.6.5.2	Corrosion		N/A	
5.6.6	Resistance of the protective system	レイリントリー	N/A	
5.6.6.1	Requirements	LA A A A A	N/A	
5.6.6.2	Test Method Resistance (Ω):	1979 B.	N/A	
5.6.7	Reliable earthing	88288	N/A	
5.7	Prospective touch voltage, touch current and prote	ective conductor current	Р	
5.7.2	Measuring devices and networks	이 안 안 안 안 있는 4	N/A	
5.7.2.1	Measurement of touch current	(See appended table 5.7.2.2, 5.7.4)	Р	
5.7.2.2	Measurement of prospective touch voltage	(See appended Table 5.2)	Р	



	EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
5.7.3	Equipment set-up, supply connections and earth connections	Single connection.	<u> </u>		
	System of interconnected equipment (separate connections/single connection):		_		
1.0	Multiple connections to mains (one connection at a time/simultaneous connections)	1. A. B. A. A. A.			
5.7.4	Earthed conductive accessible parts:	Touch current at earthed accessible conductive parts is not exceeding ES2 limits. (See appended table 5.7.2.2, 5.7.4)	Р		
5.7.5	Protective conductor current		N/A		
18	Supply Voltage (V)	888888	_		
b .	Measured current (mA)	5 16 16 16 10 10 1			
100	Instructional Safeguard:	and an an an an a	N/A		
5.7.6	Prospective touch voltage and touch current due to external circuits	1888888	N/A		
5.7.6.1	Touch current from coaxial cables	1 1 1 1 h h h	N/A		
5.7.6.2	Prospective touch voltage and touch current from external circuits	1. 1. 1. 1. 1. 1.	N/A		
5.7.7	Summation of touch currents from external circuits	P. # 3 6 1 1	N/A		
1.2	a) Equipment with earthed external circuits Measured current (mA):	1. 1. 1. 1. 1. 1.	N/A		
18	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	1. 8. 8 6 8 1	N/A		

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications	See Energy source identification and classification table.	Р
6.2.2.1	General	011201201201201201	Р
6.2.2.2	Power measurement for worst-case load fault:	PS3	N/A
6.2.2.3	Power measurement for worst-case power source fault	さににいいに	N/A
6.2.2.4	PS1	8 C. R. R. R. P.	N/A
6.2.2.5	PS2:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.6	PS3:	See 6.2.2	P
6.2.3	Classification of potential ignition sources	See below.	Р
6.2.3.1	Arcing PIS	All conductors and devices are considered as Arcing PIS.	Р
6.2.3.2	Resistive PIS	All conductors and devices are considered as Resistive PIS.	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Ρ
6.3.1 (b)	Combustible materials outside fire enclosure	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method of Control fire spread used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	1000000	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS3	Р
6.4.3.1	General	21.10.10.10.10.10.10.10	Р
6.4.3.2	Supplementary Safeguards	1	Р
81	Special conditions if conductors on printed boards are opened or peeled	いんにい にん	N/A
6.4.3.3	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	2 2 2 A A A A	N/A
6.4.5.2	Supplementary safeguards:		N/A
6.4.6	Control of fire spread in PS3 circuit	Compliance detailed as follows: - Printed board: rated V-1 or VTM-1 min. class material. - Wire insulation and tubing: complying with Clause 6.5. Other components other than PCB are: - mounted on PCB rated V-1 or VTM-1 min., or	Ρ



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Clause	Requirement + Test	Result - Remark	Verdict
6.4.7	Separation of combustible materials from a PIS	6 6 6 6 1	N/A
6.4.7.1	General	88884	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	1 1 1 1 C 1	N/A
6.4.8	Fire enclosures and fire barriers	1.10 10 10 10 1	N/A
6.4.8.1	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier	1 8 8 8 8 8 1	N/A
6.4.8.2.2	Requirements for a fire enclosure	1. 10 M. 10 M.	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	8.8.8.8.8	N/A
6.4.8.3.2	Fire barrier dimensions	88881	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	Building-in equipment	N/A
	Needle Flame test	1 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	Building-in equipment	N/A
22	Flammability tests for the bottom of a fire enclosure:		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	a a a a a	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
6.5	Internal and external wiring		N/A
6.5.1	Requirements	Building-in equipment	N/A
6.5.2	Cross-sectional area (mm²):	0.00.00.00.00	_
6.5.3	Requirements for interconnection to building wiring		N/A
6.6	Safeguards against fire due to connection to additional equipment	(See Annex Q)	Р
1.1	External port limited to PS2 or complies with Clause Q.1	(See Annex Q)	Р

7

INJURY CAUSED BY HAZARDOUS SUBSTANCES

N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
7.2	Reduction of exposure to hazardous substances	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
7.3	Ozone exposure	9 8 8 8 8	N/A	
7.4	Use of personal safeguards (PPE)	1. 10 A. 10 A.	N/A	
100	Personal safeguards and instructions:	1 1 1 1 1 1	- N. C.	
7.5	Use of instructional safeguards and instructions	1 1 1 1 1 K	N/A	
1.1	Instructional safeguard (ISO 7010)			
7.6	Batteries:	1 N N N N	N/A	

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	1 8 8 8 8 8 8	Р
8.2	Mechanical energy source classifications	See Energy source identification and classification table.	Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	Ρ
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	1 A A A A A A	N/A
8.5.2	Instructional Safeguard :		
8.5.4	Special categories of equipment comprising moving parts	6.6.6.6.6	N/A
8.5.4.1	Large data storage equipment	5 B B B B B B	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	a se se se se se	N/A
8.5.4.2.1	Safeguards and Safety Interlocks:		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
1.19	Instructional Safeguard:	9 . 10 . 10 . 10 . 10 . 10	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N):	さいいいにん	N/A
8.5.5	High Pressure Lamps	No such Lamps provided.	N/A
8.5.5.1	Energy Source Classification		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.2	High Pressure Lamp Explosion Test:	6 6 6 6 1	N/A
8.6	Stability	Build in equipment	N/A
8.6.1	Product classification		N/A
1997 - N	Instructional Safeguard:	2011년 - 이 1	_
8.6.2	Static stability	1 2 18 18 18 1	N/A
8.6.2.2	Static stability test		N/A
8 S. S	Applied Force	1 A A A A A	_
8.6.2.3	Downward Force Test	1 2 2 6 6 8 1	N/A
8.6.3	Relocation stability test		N/A
1900	Unit configuration during 10° tilt	1000 0000	_
8.6.4	Glass slide test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
8.6.5	Horizontal force test (Applied Force):	S. 18 S. 8 S	N/A
1. St. 1	Position of feet or movable parts:	いいいいいい	ST -
8.7	Equipment mounted to wall or ceiling	Building-in equipment	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface):	and an an an a	N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	18 8 8 8 8	N/A
8.8.1	Classification	. e. 61. 61. 61. 151. 1	N/A
8.8.2	Applied Force	0.0.0.0.1	N/A
8.9	Wheels or casters attachment requirements	Building-in equipment	N/A
8.9.1	Classification		N/A
8.9.2	Applied force:	1940 1940 194	_
8.10	Carts, stands and similar carriers	Building-in equipment	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions	1 N N N N N	N/A
1.10	Instructional Safeguard	1. 18 . 10 . 10 . 10 . 10 . 10	
8.10.3	Cart, stand or carrier loading test and compliance		N/A
181	Applied force:	1 6 6 8 6 4	—
8.10.4	Cart, stand or carrier impact test	1.20 . 20 . 20 . 20 . 2	N/A
8.10.5	Mechanical stability	S. S. S. S. S. S.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict		
19	Applied horizontal force (N)		- 1		
8.10.6	Thermoplastic temperature stability (°C):	88884	N/A		
8.11	Mounting means for rack mounted equipment	Building-in equipment	N/A		
8.11.1	General		N/A		
8.11.2	Product Classification	28883	N/A		
8.11.3	Mechanical strength test, variable N		N/A		
8.11.4	Mechanical strength test 250N, including end stops	1 A A A A A	N/A		
8.12	Telescoping or rod antennas	1. 1. 1. 1. 1. 1.	N/A		
1.1	Button/Ball diameter (mm):				

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

10	RADIATION		Р
10.2	Radiation energy source classification	See Energy source identification and classification table.	Р
10.2.1	General classification	S. S. S. S. S. S.	Р
10.3	Protection against laser radiation	No laser	N/A
18	Laser radiation that exists equipment:	68666	_
1.0	Normal, abnormal, single-fault		N/A
82.18	Instructional safeguard	19 19 19 19 19 19 19	_
N 28	Tool:	N & N & N &	_
10.4	Protection against visible, infrared, and UV radiation	LED backlight and LED indicator are considered as RS1.	Р
10.4.1	General	S 2 5 5 2 5	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	2011/2 ¹¹ /2	N/A
10.4.1.b)	RS3 accessible to a skilled person	8 8 8 8 8 8	N/A
1.2.1	Personal safeguard (PPE) instructional		



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Clause	Requirement + Test	Result - Remark	Verdict
120	safeguard:	12220	10 10 10
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	01.01.01.00 L00	N/A
, 10.4.1.d)	Normal, abnormal, single-fault conditions		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	8.6.8.6	N/A
10.4.1.f)	UV attenuation	18 18 18 E	N/A
10.4.1.g)	Materials resistant to degradation UV	S. 6. 6. 6.	N/A
10.4.1.h)	Enclosure containment of optical radiation:	8	N/A
10.4.1.i)	Exempt Group under normal operating conditions	0000	N/A
10.4.2	Instructional safeguard:	5.8.5.6	N/A
10.5	Protection against x-radiation	and the second	N/A
10.5.1	X- radiation energy source that exists equipment		N/A
10.1	Normal, abnormal, single fault conditions	8. 8. 8. 8.	N/A
18 6	Equipment safeguards	8888	N/A
- 50	Instructional safeguard for skilled person:	100 00 00 00	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		- N.
27 8	Abnormal and single-fault condition:	20 100 100 20	N/A
12.1	Maximum radiation (pA/kg)	1 6 8 8 8	N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification	222	N/A
- C - S	Acoustic output, dB(A):		N/A
18 8	Output voltage, unweighted r.m.s:	おけんに	N/A
10.6.4	Protection of persons	1. 1. 1. 1.	N/A
101.0	Instructional safeguards:		N/A
19	Equipment safeguard prevent ordinary person to RS2	8 & C &	- 102
61	Means to actively inform user of increase sound pressure	8 6 8 8	-) ⁽¹
	Equipment safeguard prevent ordinary person to RS2	1. C. C. C.	- 12



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Clause	Requirement + Test	Result - Remark	Verdict	
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A	
10.6.5.1	Corded passive listening devices with analog input	1 1 1 1 1	N/A	
16.1	Input voltage with 94 dB(A) <i>L_{Aeq}</i> acoustic pressure output:	18 18 18 C	- sila	
10.6.5.2	Corded listening devices with digital input	88888	N/A	
1.16	Maximum dB(A)	A & & & &	- 1	
10.6.5.3	Cordless listening device	27, 162, 201, 201	N/A	
1.22.5	Maximum dB(A):	1 2 2 6 8	_	

в	NORMAL OPERATING CONDITION TESTS, AB CONDITION TESTS AND SINGLE FAULT COND		Р
B.2	Normal Operating Conditions	いくりくり	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
Ú.	Audio Amplifiers and equipment with audio amplifiers:	いん にん に い	N/A
B.2.3	Supply voltage and tolerances	+10% and -10% for a.c. mains.	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	김 화가 쉽는 것이 없는 것이 없다.	Р
B.3.1	General requirements:	See below	Р
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test	AC mains	N/A
B.3.4	Setting of voltage selector:	No voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.2.5)	Р
B.3.6	Reverse battery polarity	88888	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	8 B & B & B &	Р
B.4	Simulated single fault conditions	6 6 6 6 6 6	Р
B.4.2	Temperature controlling device open or short- circuited:		N/A
B.4.3	Motor tests		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature		N/A
B.4.4	Short circuit of functional insulation		Р
B.4.4.1	Short circuit of clearances for functional insulation	8888888	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	1. 10 10 10 10 10	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	1. 1. N. S. S. S.	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended Table B.4)	Р
B.4.6	Short circuit or disconnect of passive components	(See appended Table B.4)	Р
B.4.7	Continuous operation of components	8.8.8.8.8.8	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	(See appended Table B.4)	Р
B.4.9	Battery charging under single fault conditions:	88888	N/A

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation	N/A
C.1.2	Requirements	8 8 2 8 8	N/A
C.1.3	Test method	NO 201 - 100 - 100 - 100	N/A
C.2	UV light conditioning test	8 C C C C	N/A
C.2.1	Test apparatus	1. S. S. S. S.	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus	66866	N/A
C.2.4	Xenon-arc light exposure apparatus	uprilio il originali uprilio	N/A

D	TEST GENERATORS	N/A
D.1	Impulse test generators	N/A
D.2	Antenna interface test generator	N/A
D.3	Electronic pulse generator	N/A



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Clause	Requirement + Test Result - Remark	Verdict
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	N/A
	Audio signal voltage (V)	_
	Rated load impedance (Ω)	_
E.2	Audio amplifier abnormal operating conditions	N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	1 1 1 1 1 1 1 1	Р
100	Instructions – Language:	English	_
F.2	Letter symbols and graphical symbols	188888	Р
F.2.1	Letter symbols according to IEC60027-1		N/A
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	Ρ
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	
F.3.2.2	Model identification	See copy of marking plate	
F.3.3	Equipment rating markings	See below.	Р
F.3.3.1	Equipment with direct connection to mains	See copy of marking plate	Р
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage	See copy of marking plate	
F.3.3.4	Rated voltage:	See copy of marking plate	
F.3.3.4	Rated frequency:	See copy of marking plate	
F.3.3.6	Rated current or rated power:	See copy of marking plate	
F.3.3.7	Equipment with multiple supply connections	Only one connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings:	a se a a a a	N/A
F.3.5.2	Switch position identification marking		N/A



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Clause	Requirement + Test	Result - Remark	Verdic		
F.3.5.3	Replacement fuse identification and rating markings	Fuse F1, T6.3AL 250V	Р		
F.3.5.4	Replacement battery identification marking:		N/A		
F.3.5.5	Terminal marking location	18 11 18 18 18 1	N/A		
F.3.6	Equipment markings related to equipment classification	1. 10 18 18 18 1	N/A		
F.3.6.1	Class I Equipment	and the second second	N/A		
F.3.6.1.1	Protective earthing conductor terminal	রা রেগ রগ রগ রা ব	N/A		
F.3.6.1.2	Neutral conductor terminal	Not permanently connected equipment.	N/A		
F.3.6.1.3	Protective bonding conductor terminals	88888	N/A		
F.3.6.2	Class II equipment (IEC60417-5172)		N/A		
F.3.6.2.1	Class II equipment with or without functional earth	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A		
F.3.6.2.2	Class II equipment with functional earth terminal marking	186886	N/A		
F.3.7	Equipment IP rating marking:	IPX0			
F.3.8	External power supply output marking		N/A		
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	Р		
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	P		
F.4	Instructions	8 2 2 2 2 2 2	Р		
20	a) Equipment for use in locations where children not likely to be present – marking	1.10 10 10 10 10	N/A		
	b) Instructions given for installation or initial use		Р		
18	c) Equipment intended to be fastened in place		N/A		
1.18	d) Equipment intended for use only in restricted access area	88688	N/A		
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	1 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A		
1997-6	f) Protective earthing employed as safeguard	and the second second	N/A		



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Clause	Requirement + Test	Result - Remark	Verdict		
	g) Protective earthing conductor current exceeding ES 2 limits		N/A		
	h) Symbols used on equipment	4. 4. 4. 4.	N/A		
1 C - 1	i) Permanently connected equipment not provided with all-pole mains switch	いにいじいい	N/A		
6	j) Replaceable components or modules providing safeguard function	66666	Р		
F.5	Instructional safeguards	8 6 8 8	Р		
1	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	14460	P		

G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General requirements	68888	N/A
G.1.2	Ratings, endurance, spacing, maximum load	6 6 6 6 6 6	N/A
G.2	Relays	1 10 10 10 10 10 10	Р
G.2.1	General requirements	(See appended Table 4.1.2.)	Р
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	1 1 1 1 1 1 1	N/A
G.2.4	Mains relay, modified as stated in G.2	a. a. a. a. a. a.	N/A
G.3	Protection Devices		Р
G.3.1	Thermal cut-offs	88888	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	60000	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	マルアトアル	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	a the stand the stand	N/A
G.3.2	Thermal links	9.15, 91.91.91.91.9	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		N/A
G.3.2.1b)	Thermal links tested as part of the equipment	きははいいにん	N/A
1.66.0	Aging hours (H):	61.20 Job 10 10 10 Job	
1000	Single Fault Condition:		



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Clause	Requirement + Test	Result - Remark	Verdict
199	Test Voltage (V) and Insulation Resistance (Ω):		
G.3.3	PTC Thermistors	くぶっか や がったい	N/A
G.3.4	Overcurrent protection devices	(See appended Table 4.1.2.)	Р
G.3.5	Safeguards components not mentioned in G.3.1 to	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	さやにんにやい	N/A
G.3.5.2	Single faults conditions:	8 N. M. R. S. S. S.	N/A
G.4	Connectors		Р
G.4.1	Spacings	1 4 4 4 6 6 4 4 4	Р
G.4.2	Mains connector configuration	Certified source used. (See appended table 4.1.2)	Р
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	68888	Р
G.5	Wound Components	2 12 12 12 12 12	N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°		N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components	2 2 2 2 2 2 2	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	1 1 1 1 1 h	N/A
	Time (s):	a a a a a	
- C - S	Temperature (°C)		
G.5.2.3	Wound Components supplied by mains	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.5.3	Transformers		Р
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1):	Tested with appliance	Р
1000	Position:	(see appended table 4.1.2)	
16 6	Method of protection:	Meet the requirements given in G.5.3.2 and G.5.3.3	—
G.5.3.2	Insulation	2 6 8 8 6 8 1	Р
121	Protection from displacement of windings:	The end turns are reliably fixed by tape, the whole transformer varnished	_



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Clause	Requirement + Test	Result - Remark	Verdict	
G.5.3.3	Overload test:	(see appended table B.3)	Р	
G.5.3.3.1	Test conditions	さんがんやん	Р	
G.5.3.3.2	Winding Temperatures testing in the unit		Р	
G.5.3.3.3	Winding Temperatures - Alternative test method	いいいいいい	N/A	
G.5.4	Motors	S. S. S. S. S. S.	N/A	
G.5.4.1	General requirements	No such part	N/A	
8.8	Position	8 8 8 8 8 8	_	
G.5.4.2	Test conditions	6 6 24 4 10 10	N/A	
G.5.4.3	Running overload test	200000	N/A	
G.5.4.4	Locked-rotor overload test	888888	N/A	
	Test duration (days):			
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A	
G.5.4.5.2	Tested in the unit		N/A	
1.19 2	Electric strength test (V):	いっぷう あい おい おいう	_	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	1. 1. 1. 1. 1.	N/A	
1.6	Electric strength test (V):	h the de la de	_	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A	
G.5.4.6.2	Tested in the unit		N/A	
188	Maximum Temperature	888888	N/A	
	Electric strength test (V):		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A	
- 41 - A	Electric strength test (V):	1 4 4 6 6 4	N/A	
G.5.4.7	Motors with capacitors	1. J. S. M. S. S.	N/A	
G.5.4.8	Three-phase motors		N/A	
G.5.4.9	Series motors	1 10 1 10 10 10 10 10 10 10 10 10 10 10	N/A	
1.10 -	Operating voltage:	2 10 10 10 10 10	_	
G.6	Wire Insulation		Р	
G.6.1	General	8 8 8 8 8 8 8	Р	



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Clause	Requirement + Test	Result - Remark	Verdict	
G.6.2	Solvent-based enamel wiring insulation	Solvent-based enamel winding is not considered basic insulation.	N/A	
G.7	Mains supply cords		N/A	
G.7.1	General requirements	88888	N/A	
V	Туре:	0.10.20.20.20.20.20		
8 8	Rated current (A):			
1.8.1	Cross-sectional area (mm ²), (AWG):	S. B. B. B. B. S.		
G.7.2	Compliance and test method		N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A	
G.7.3.2	Cord strain relief	6.6.6.6.6.	N/A	
G.7.3.2.1	Requirements	1. A. A. A. A. A.	N/A	
	Strain relief test force (N)			
G.7.3.2.2	Strain relief mechanism failure		N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	Sec. M. M. M. S.		
G.7.3.2.4	Strain relief comprised of polymeric material		N/A	
G.7.4	Cord Entry:	N & N & N &	N/A	
G.7.5	Non-detachable cord bend protection	6 6 6 6 6 6	N/A	
G.7.5.1	Requirements	an nan an an an a	N/A	
G.7.5.2	Mass (g)	くやんちん		
	Diameter (m)	a a a a a a		
10.1	Temperature (°C):	6.6.6.6.6		
G.7.6	Supply wiring space	1 2 2 2 2 2 2	N/A	
G.7.6.2	Stranded wire		N/A	
G.7.6.2.1	Test with 8 mm strand	1. 1. 1. 1. 1. 1.	N/A	
G.8	Varistors	1. 1. 1. 1. 1. 1. A. 1.	Р	
G.8.1	General requirements		Р	
G.8.2	Safeguard against shock	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р	
G.8.3	Safeguard against fire	5 B & B & B & B	Р	
G.8.3.2	Varistor overload test:	80 BE 28 80 80 8	N/A	
G.8.3.3	Temporary overvoltage	88.8.8.8.8.	N/A	
G.9	Integrated Circuit (IC) Current Limiters		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 a)	Manufacturer defines limit at max. 5A.	666666	N/A
G.9.1 b)	Limiters do not have manual operator or reset	88888	N/A
G.9.1 c)	Supply source does not exceed 250 VA:		
G.9.1 d)	IC limiter output current (max. 5A):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>
G.9.1 e)	Manufacturers' defined drift	N. S. N. N. S. N. V.	_
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2	いん がん しょうし	N/A
G.9.4	Test Program 3	4 16 30 16 30 16	N/A
G.10	Resistors		Р
G.10.1	General requirements	Functional insulation only.	Р
G.10.2	Resistor test	6 6 6 6 6 6 7	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	100000	N/A
G.10.3.1	General requirements	the strate of the strate	N/A
G.10.3.2	Voltage surge test	10 10 10 10 10 10	N/A
G.10.3.3	Impulse test	N. 2 & R & R	N/A
G.11	Capacitor and RC units		Р
G.11.1	General requirements	(See appended Table 4.1.2.)	Р
G.11.2	Conditioning of capacitors and RC units	8 1. 2. 2. 2. 2.	Р
G.11.3	Rules for selecting capacitors		Р
G.12	Optocouplers	한 같은 같은 같은 같은	Р
8	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	(See appended Table 4.1.2.)	Р
-61 - 8	Type test voltage Vini	N N N N N N	—
- Par	Routine test voltage, Vini, b:	So to the to de	_
G.13	Printed boards		Р
G.13.1	General requirements	(See appended Table 4.1.2.)	Р
G.13.2	Uncoated printed boards	5 B & B & B & B	Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	1. 6. 6. 6. 6.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
	Compliance with cemented joint requirements (Specify construction):		-	
G.13.5	Insulation between conductors on different surfaces	a a se a se	N/A	
20.2	Distance through insulation	21. N. 1971 N. 21	N/A	
5 6	Number of insulation layers (pcs)	1 & & & & &	- L	
G.13.6	Tests on coated printed boards	A. S. S. S. S.	N/A	
G.13.6.1	Sample preparation and preliminary inspection	21. 10 M 20	N/A	
G.13.6.2a)	Thermal conditioning	1 8 8 8 8	N/A	
G.13.6.2b)	Electric strength test		N/A	
G.13.6.2c)	Abrasion resistance test	1. 5. 5. 5. 6.	N/A	
G.14	Coating on components terminals	6 6 6 6 6	N/A	
G.14.1	Requirements:	N	N/A	
G.15	Liquid filled components	レビンビビ	N/A	
G.15.1	General requirements	S. S. S. S. S.	N/A	
G.15.2	Requirements	1. N. 1. N	N/A	
G.15.3	Compliance and test methods	N. 2 & K	N/A	
G.15.3.1	Hydrostatic pressure test	5 5 5 S 6	N/A	
G.15.3.2	Creep resistance test	1 A (A (M (M (A)	N/A	
G.15.3.3	Tubing and fittings compatibility test	1. 1. 1. 1. 1.	N/A	
G.15.3.4	Vibration test		N/A	
G.15.3.5	Thermal cycling test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.15.3.6	Force test	8 8 B B B	N/A	
G.15.4	Compliance	2.16.2.2	N/A	
G.16	IC including capacitor discharge function (ICX)	いちにんに	N/A	
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	1. 10 B &	N/A	
b)	Impulse test using circuit 2 with Uc = to transient voltage	10888	N/A	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	8488	N/A	
C2)	Test voltage:	01.201.301.561.087	_	



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Clause	Requirement + Test	Result - Remark	Verdict	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
D2)	Capacitance:	6 10 10 10 10 10	_	
D3)	Resistance:	1 AL 191 AL 191	_	

н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	No telephone ringing signal.	N/A
H.2	Method A	1 8 8 6 6 6	N/A
H.3	Method B		N/A
H.3.1	Ringing signal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
H.3.1.1	Frequency (Hz):	1 & B & B & B	
H.3.1.2	Voltage (V):		
H.3.1.3	Cadence; time (s) and voltage (V):	したしたなが	_
H.3.1.4	Single fault current (mA):	S. M. M. M. M. S.	
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	1. 4. 6. 6. 6. C.	N/A
H.3.2.2	Tripping device	いちん いちょう	N/A
H.3.2.3	Monitoring voltage (V)	0.10.10.10.0	

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	
6.0.0	General requirements	N/A

К	SAFETY INTERLOCKS		N/A
K.1	General requirements	No such components used.	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
K.6	Mechanically operated safety interlocks		N/A	
K.6.1	Endurance requirement		N/A	
K.6.2	Compliance and Test method	:	N/A	
K.7	Interlock circuit isolation		N/A	
K.7.1	Separation distance for contact gaps & interlo circuit elements (type and circuit location)		N/A	
K.7.2	Overload test, Current (A)	:	N/A	
K.7.3	Endurance test		N/A	
K.7.4	Electric strength test	:	N/A	

L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment	Shall be evaluated in the end- product.	N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A

м	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method):		N/A
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery	(See appended Tables Annex M)	N/A
	- Reverse charging of a rechargeable battery		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
	- Excessive discharging rate for any battery	(See appended Tables Annex M)	N/A	
M.3.3	Compliance	(See appended Tables Annex M)	N/A	
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A	
M.4.1	General		N/A	
M.4.2	Charging safeguards		N/A	
M.4.2.1	Charging operating limits		N/A	
M.4.2.2 a)	Charging voltage, current and temperature:			
M.4.2.2 b)	Single faults in charging circuitry:			
M.4.3	Fire Enclosure		N/A	
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A	
M.4.4.2	Preparation		N/A	
M.4.4.3	Drop and charge/discharge function tests		N/A	
	Drop		N/A	
	Charge		N/A	
	Discharge		N/A	
M.4.4.4	Charge-discharge cycle test		N/A	
M.4.4.5	Result of charge-discharge cycle test		N/A	
M.5	Risk of burn due to short circuit during carrying		N/A	
M.5.1	Requirement		N/A	
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A	
M.6	Prevention of short circuits and protection from other effects of electric current		N/A	
M.6.1	Short circuits		N/A	
M.6.1.1	General requirements		N/A	
M.6.1.2	Test method to simulate an internal fault		N/A	
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A	
M.6.2	Leakage current (mA):		N/A	
M.7	Risk of explosion from lead acid and NiCd batteries		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance <i>d</i> (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A

Ν	ELECTROCHEMICAL POTENTIALS	N/A
	Metal(s) used:	

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied	

Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		N/A
P.1	General requirements	Building-in equipment	N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm):		_
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A



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Clause	Requirement + Test	Result - Remark	Verdict			
	Transportable equipment with metalized plastic parts:		N/A			
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard) :		N/A			
P.3	Safeguards against spillage of internal liquids	The equipment does not contain liquid.	N/A			
P.3.1	General requirements		N/A			
P.3.2	Determination of spillage consequences		N/A			
P.3.3	Spillage safeguards		N/A			
P.3.4	Safeguards effectiveness		N/A			
P.4	Metallized coatings and adhesive securing parts		N/A			
P.4.2 a)	Conditioning testing		N/A			
	Tc (°C):					
	Tr (°C):					
	Ta (°C):					
P.4.2 b)	Abrasion testing:		N/A			
P.4.2 c)	Mechanical strength testing:		N/A			

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1 a)	Inherently limited output	N/A
Q.1.1 b)	Impedance limited output	N/A
	- Regulating network limited output under normal operating and simulated single fault condition	N/A
Q.1.1 c)	Overcurrent protective device limited output	N/A
Q.1.1 d)	IC current limiter complying with G.9	N/A
Q.1.2	Compliance and test method	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	
	Current limiting method	



S.4

N/A

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Clause	Requirement + Test	Result - Remark	Verdic
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
			16.16
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	1	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		
	Wall thickness (mm):		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		
	Wall thickness (mm):		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A

Flammability classification of materials



T.9.2

T.10

T.11

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Clause	Requirement + Test	Result - Remark	Verdict
O	a share to the share of the share		- 19 mil
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (test condition), (°C):		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
(いんのうたい	
Т	MECHANICAL STRENGTH TESTS	1	Р
T.1	General requirements		P
T.2	Steady force test, 10 N	(See appended table T.2)	P
Т.3	Steady force test, 30 N		N/A
Т.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N:		N/A
Т.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	Impact Test (glass)		N/A
T.9.1	General requirements		N/A

General requirements N/A N/A Impact test and compliance Impact energy (J).....: Height (m).....: Glass fragmentation test.....: No such glass provided. N/A Test for telescoping or rod antennas No such antennas provided. N/A Torque value (Nm):



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Clause	Requirement + Test	Result - Remark	Verdict	

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

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)			
V.1	Accessible parts of equipment	N/A		
V.2	Accessible part criterion	N/A		



Dongguan LUOYI

ICP

3D-9

3D-9

3D-9

MPX,

MKP

MEX,

MKP

MEX

Electronics

Technology

Dev. Zone

Songtian Enterprise Co.,

Thinking

Electronic

Gnangdong Hongzhi

Tenhnolongy

Guangdong

electronics

Co., LTD.

Tenta Electric

Shantou High-New Technology

Dev. Zone

Songtian Enterprise Co.,

Ltd.

Industrial Co.,Ltd.

Electronic

Co.,Ltd

JURCC

Industrial Co.,Ltd

Ltd.

Shantou High-New Technology

Co.,Ltd.

(alternative)

Thermistor(RT1)

(alternative)

(alternative)

X-cap(CX1)

(alternative)

(alternative)

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2015-12

EN 60539-

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EN 60534-1:

EN 60384-14:

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Clause Requirement + Test		10.00	Result - Rer	mark	Verdic		
4.1.2	1.2 TABLE: List of critical components				P		
Object / part No. Manufacturer/ trademark			Type / model	Technical data	Standard	Mark(s) of conformity ¹	
FUSE(F1)		E(F1) Doongguan 932 Better Electronics Technology Co., Ltd.		T3.15AL, 250V	EN 60127-3: 2015-12	VDE 40033369	
(alternative)		Dongguan hongda electronic technology co., LTD.	31TD	T3.15AL, 250V	IEC 60127-3: 2015	VDE 40028260	

T3.15AL,

3Ω

3Ω

3Ω

X2

X2

0.33µF,

0.33µF,

275VAC/305VAC/3

10VAC, 40/110/56,

275VAC/310VAC,

0.33µF, 275VAC,

40/110/56, X2

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Clause F	Requirement + Test	Result - Remark		mark	Verdict		
Opto-coupler (U5)	EVERLIGHT ELECTRONICS CO., LTD.			EN 62368-1: 2016-05	VDE 40028391		
(alternative)	Lite-On Technology Corporation	LTV1008TP-G	LTV1008TP-G	EN 60747-5-2: 2003-01	VDE 40015248		
Y-Cap (CY1)	Jyh Chung Electronic co.,Ltd.	JD	2200pF, 400VAC 40/125/21, CY1	EN 60384-14: 2006-04	VDE 123326		
(alternative)	Shantou High- New Technology Dev. Zone Songtian Enterprise Co., Ltd.	СТ7	2200pF, 400VAC/250VAC 25/125/21, CY1	EN 60384-14: 2017-04	VDE 40025754		
(alternative)	Guangdong JURCC electronics Co., LTD.	JB	2200pF, 250/400VAC, 25/125/21, CY1	EN 60384-14: 2017-04	VDE 40050359		
РСВ	Kingboard laminates Holdings Limitedco.,LTD	KB5152	FR4	EN60695-11- 10:2014-10	VDE 40020729		
(alternative)	NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD.	KB5152	FR4	IEC 60695-2-13	UL E98983		
Bleeder Resistors (R1,R2,R36, F	R37) Housheng international trading (kunshan) co. LTD	1206	3M Ω 1/4W		Tested with appliance		
(alternative)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	3M Ω 1/4W		Tested with appliance		
(alternative)	China giant co. LTD	1206	3M Ω 1/4W		Tested with appliance		
BOBBIN	Chang Chun Plastics Co., Ltd.	ATQ25	94V-0 150℃	UL 94	UL E59481		



		EN	62368-1			
Clause	Requirement + Test	6.4	87.9	Result - Rem	nark	Verdict
(alternative)	Dongguan yangtong electronics co. LTD	ATQ25	94V-0	0 150℃	UL 94	Tested with appliance
INSULATIO TAPE	N JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD	PZ*(b)	130 ℃		UL 510	UL E165111
(alternative)	Guangzhou ruisheng electronics co. LTD	PZ*(b)	130 ℃		UL 510	UL E165111
TIW WIRE	ShenZhen Jiuding New Material Co.,Ltd.	DTIW-B	130℃		UL 1446	UL E357999
(alternative)	PACIFIC ELECTRIC WIRE CO., LTD.	DTIW-B	130 ℃		UL 1446	UL E201757
(alternative)	Furukawa Electric Co., Ltd	DTIW-B	130 ℃	130 ℃		VDE 6735
Varnish	JOHN C DOLPH CO。,LTD	BC-346A	200 ℃		UL 1446	UL E317427
(alternative)	LTD.	V1630FS	150°C		UL 1446	UL E314793
TUBE	Great Holding Industrial Co.,Ltd.	TFT	200 ℃	16.6	UL 224	UL E156256
Transforme	r Guangdong Gree n Power Technol ogy Co.,Ltd.	ATQ25	Class	Class B		Tested with appliance
(alternative)	LTD	ATQ25	Class	В	100	Tested with appliance
(alternative) Foshan ouqi electronics co LTD		ATQ25	Class	В	2020	Tested with appliance
Enclosure	SABIC INNOVATIVE	SE1X	PC	PC		Tested with appliance
Plug	SABIC INNOVATIVE	SE1X		r Better, min. 2.0mm ess	88	Tested with appliance



Clause	Requirement + Test					
	Requirement + rest	10 m 1	- 9	Result - Re	emark	Verdio
Cable	Dongguan Ubill Electrical co.,Ltd	H03VV-F 23×0,50.75m m ² / H03VVH2-F 23×0,50.75m m ²	PVC		EN50525-2- 11:2011	VDE 40042748



		EN 62	368-1	
Clause	Requiremen	nt + Test	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batterie	s mechanical tests	N/A
(The follo	wing mechanica	al tests are conducted in the seque	ence noted.)	
4.8.4.2	TABLE: St	ress Relief test	とんがおんい	
	Part	Material	Oven Temperature (°C)	Comments
1997	19 - 19 - 19 19 - 19 - 19	1 8 8 8 8 8 8		1.10.10
4.8.4.3	TABLE: Ba	attery replacement test	S. B. B. S. S. S.	
Battery p	art no	· · · ·		
Battery Ir	nstallation/witho	drawal	Battery Installation/Removal Cycle	Comments
0.0	Se 19 1	6 00 10 10 10	1 . O. O. O.	8 1.8 1.9 B
			2	
			3	8. 16. 26
			4	000
			5	S. 81
			6	8 28 28
			8	10 N N
			9	1. 1. S. W.
			10	B. B. S.
4.8.4.4	TABLE: Dro	op test		
Impact Are	ea	Drop Distance	Drop No.	Observations
1 8 A	S 20 8	88888	888886	8 6 8
1.0	8 19 1	00000	5 E E E E E E.	2 2 2
4.8.4.5	TABLE: Im	pact	しんしん りんぷう	
Impacts per surface Surface tested		Surface tested	Impact energy (Nm)	Comments
1.50	8.84	18 8 8 8 8 8	688888	8. A. A.
	Se de la	1 1 15 20 20 1	4 6 6 6 6 6	S all also
4.8.4.6	TABLE: Cr	ush test	이 아이지 않는 것이 있는 것이 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 않이 없는 것이 없이 않이	_
Test	t position	Surface tested	Crushing Force (N)	Duration force applied (s)



		EN	62368-1	
Clause	Requirement + Test	5 6 K	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lithium coin/	button cell batte	eries mechanical tests	N/A
(The follo	wing mechanical tests are co	onducted in the se	quence noted.)	
1 de 1	1- 1- 1- 1- 1- 1	8.46.76	1 8 8 6 8 8 8	12 6- 6
0	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	9.9.9	a a a a a a	
Suppleme	entary information:	1 8 B.		8. 8. 8.

4.8.5	TABLE: Lithiu	m coin/button cell batteries me	chanical test result	0.000	N/A
Test	position	Surface tested	Force (N)		ition force plied (s)
Suppleme	ntary information:	\$ \$ \$ \$ \$ \$	8 6 8 6 6		19

5.2	Table: C	lassification of e	electrical energy	gy sources	1911 - 911 - 61	39	Р
5.2.2.	2 – Steady Sta	ate Voltage and C	Current conditio	ns			
	Supply	Location (e.g.	Test	Para	meters		
No.	Supply Voltage	circuit designation)	conditions ¹⁾	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class

For model : LSN-87G -05000600

	100	8.8.8	Normal	5.06Vrms	10 10 - 10	18 C (
1	264Va.c, 60Hz	Output + to –	Abnormal: Output overload	4.40Vrms	8-2 <u>9</u> -6	60	ES1
	380 6	8.1.8	Single fault: R5SC	0Vdc	~ <u>~</u> ~	C 1	
4	1000	6 8 4	Normal	80 A A	0.352mApk	8	1.15
2	264Va.c, 60Hz	Output +/- to earth	Abnormal: Output overload	668	0.352mApk	60	ES1
	8.8		Single fault: R5 SC	999	0.360mApk		
2	6.00	Diastis	Normal	8 6 S	0.024mA	197 - C	S - 67
3	264Va.c, 60Hz	Plastic enclosure to earth	Abnormal: Output overload	244	0.024mA	60 Hz	ES1



			1.12.1	EN 62368-1			
Clause	e Requir	ement + Test	6. 6. 1	Resu	ult - Remark		Verdic
			Single fault: R5 SC	100	0.026mA	Ľ.	
	1.1.1.2	1.0.2	Normal	89.7Vrms	a 10-10-10	49.17 KHz	
4	4 264Va.c, 60Hz	T1 pin 6-8	Abnormal: Output overload	2.00	0.080	1	ES2
1.5	1. 6	S. 20	Single fault:	1 N. A.	P. C. S. S.	28	
For m	odel : LSN-8	37G-56000116				1.1	
1	100	1000	Normal	56.3Vrms	한 날한 승규 관계		S. 16
5	264Va.c, 60Hz	Output + to –	Abnormal: Output overload	56.0Vrms	<u></u>	2	ES1
	199		Single fault: R5 SC	0Vdc			

5.2.2.	3 - Capacitan	ce Limits					
	Supply	Location (e.g.			Parameters		– ES
No.	Voltage	circuit designation)	Test conditions	Capacitance,	nF	Upk (V)	Class
18	12.5	883	Normal	2. 1. 1.	8 8	8.8.8	1.5
	214	100	Abnormal	(a) Sec. 20	101 (6)		
		0.9.1	Single fault – SC/OC			9.9.1	
Overa	all capacity: C	1=0.1uF	1.50.40.4	6 6 6	6.0	6.6.6	
5.2.2.	4 - Single Pul	ses					
	Supply	Location (e.g.	-		Parameters		ES
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	Class
185	18.30	8 8 8	Normal	0.34.50	8-8-	8 . A .	\$1.38
	Con Lo	20100	Abnormal	0.20	0.0		
	6	6 6 8	Single fault – SC/OC		1-C	0.00	



				E	N 62368-1				
Clause	Э	Require	ement + Test		6.6	Result - Re	emark	e e	Verdict
5.2.2	2.5 - Re	epetitive	Pulses	<u> </u>	1	<u></u>		- 44 - 44 - 1	
		·	Location (e.g.			Pa	arameters		50
No.	Supp Volta		circuit designation)	Test condition	off time	e (ms)	Upk (V)	lpk (mA)	ES Class
	1.2			Normal				<u> </u>	
	1.8		12 18 1	Abnormal		1.0	P 19	8.20	de la
		ē., 6	10	Single fault – SC/OC	14.0	S. (8)	6-30	1.95	1.1
5.4.1.4 6.3.2, B.2.6		TABLE	: Temperature	measurements	6		e e	2.2	Р
4	1	Sup	oply voltage (V).	:	See below	100	1	8 - 8 - 1	_
1	0.00	Am	bient T _{min} (°C)	:			S	- 9 -	
-			bient T _{max} (°C)						
18	18	Tm	a (°C)	:	14-14	<u> </u>	-	6 . A . I	
Maxin	num m	easured	temperature T	of part/at:		Т	(°C)		Allowed T _{max} (°C
	ł	1 A	600	224	90Vac/60 Hz	264Vac,5 0Hz	8.4	1 - 2	÷
For m	odel :	LSN-8	7G-56000116						
Plug h	nolder	S	20	6 2 2	35.4	34.2	0.00	0.00	Ref.
nput	wire		A. 196 A	- C - Y	66.4	63.2			80
_ine c	hock L	_F1 wind	ding	8 8 8	84.1	81.0		2	130
X-Cap	pacitor	CX1 bo	dy	1. 10. 1	76.0	72.5			100
		F2 wind		1 C C	111.1	106.9		6 (H) (H)	130
	-	F2 core		8	108.2	104.1	0.50	00.001	130
		EC1 bo	dy		81.3	77.2			105
	near Q		8 8 3	8 18 18	103.3	99.4	2.5	19.18	130
_		T1 wine	-	0.00.0	93.0	90.6			110
		T1 core		S 62 6	90.8	88.6			110
Y-Cap	pacitor	CY1 bo	dy		94.2	89.9	0. 70		125



Report No. PTC21022304813S-LD01

		EN 62368-1				
Clause	Requirement + Test		Result - Ren	nark		Verdict
E-Capacit	or EC4 body	82.2	78.5	20	<u> </u>	105
PCB near	· ·	87.9	84.6	01.20	01.20	130
Output wi	re	68.5	65.2	12.1		80
	bler U2 body	82.2	78.4	100		100
Enclosure	inside near T1	69.2	66.7			Ref.
Enclosure	outside near T1	59.3	57.2	- 2 - 1		77
Ambient	5 6 5 6 6 6 7	25.0	25.0		01-0	2125
For mode	: LSN-87G -05000600		S	282 8		
Plug holde	er	40.0	38.4	1. A. 1	2 -2	Ref.
Input wire		74.9	71.0			80
Line choc	k LF1 winding	94.9	91.0			130
X-Capacit	or CX1 body	85.7	81.4	- HO	00	100
Line choc	k LF2 winding	125.3	120.2	SE 8		130
Line choc	k LF2 core	122.0	117.1	9 . 2 9 . 3	C	130
E-Capacit	or EC1 body	91.7	86.8			105
PCB near	Q1	116.5	111.8	19 C		130
Transform	ner T1 winding	104.8	101.8	0.1.20.5	81.76	110
Transform	ner T1 core	102.5	99.6	12 9	1.1	110
Y-Capacit	or CY1 body	106.2	101.1	1. A. A.	60.00	125
E-Capacit	or EC4 body	92.7	88.2			105
PCB near	Q4	99.1	95.1	- A 1	2.42	130
Output wi	re	77.2	73.3	6 - .		80
Opto-coup	bler U2 body	92.7	88.1			100
Enclosure	inside near T1	78.1	75.0	b	00	Ref.
Enclosure	outside near T1	66.9	64.2	-		77
Ambient	8 . B . B . B . B	25.0	25.0	1.4		



			EN 62	2368-1				
Clause	Requirement + Tes	t	19	R	esult - Rem	nark	e se s	Verdict
Suppleme	entary information:	1997 - 19	1997		E.S.	- C - S	1998 - B	연양
	he apparatus was sub Tma) of 25ºC.	omitted and e	valuated fo	r maximun	n manufact	urer's reco	mmended ar	nbient
Note 2: T	he temperatures were	measured u	nder the wo	orse case r	normal mod	de defined	in table B.2.5	5.
Note 3. T	emperature limits are	calculated as	follows:					
V	Vinding components p	roviding safe	ty isolation:	0.10				
	Class B \rightarrow Tmax = 120	-	-					
С	Class B \rightarrow Tmax = 120) - 10=110 °C	1.00	alculated fr	om ambie	nt durina t	est respectiv	/elv.
C Note 4: T Note 5: T) - 10=110 °C ues for T (°C conducted w) are re-ca					
C Note 4: T Note 5: T 20	Class B → Tmax = 120 Test conditions E; val The heating test was) - 10=110 °C ues for T (°C conducted w) are re-ca					5 N
C Note 4: T Note 5: T 20	Class B → Tmax = 120 Fest conditions E; val The heating test was 00mmx 25mm(L x W) - 10=110 °C ues for T (°C conducted w x H).) are re-ca ith the unit	t put in an	aluminum	chassis w	Allowed	Omm x
C Note 4: T Note 5: T 20 Temperatu	Class B → Tmax = 120 Fest conditions E; val The heating test was 00mmx 25mm(L x W) - 10=110 °C ues for T (°C conducted w x H).) are re-ca ith the unit	t put in an	aluminum	chassis w	Allowed	Omm x
C Note 4: T Note 5: T 20 Temperatu Suppleme	Class B → Tmax = 120 Fest conditions E; val The heating test was 00mmx 25mm(L x W ure T of winding:	0 - 10=110 °C ues for T (°C conducted w x H). t ₁ (°C) 	;) are re-ca ith the unit R ₁ (Ω) 	t put in an t ₂ (°C) 	aluminum R ₂ (Ω) 	chassis w	Allowed	Omm x

5.4.1.10.3	TABLE: Ba	Il pressure test of thermoplasti	cs		N/A
Allowed imp	ression diame	ter (mm):	≤ 2 mm	6 8 1	
Object/Part I	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression o (mm	
	1.19.16	S. S. S. S. S.	20.00.00.00	3.5.	6.6
Supplement	ary information				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum	Clearanc	es/Creepa	age distanc	e		100	Ρ
Clearance (cl) distance (cr) a	and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm)²	Required ³ cr (mm)	cr (mm)
L to N before I	=1	420	250	0.06	2.5	3.2	2.5	3.2
Across F1	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	420	250	0.06	2.5	3.0	2.5	3.0
Primary traces under CY1	s to secondary trace	596	301	0.06	6.4	8.0	3.0	8.0



			EN 6	2368-1				
Clause	Requirement + Test	1.6		R	esult - Rema	ark		Verdict
T1 core to	secondary CY1	596	301	>30	6.4	10.6	3.0	10.6
T1: second	dary pin to primary	596	301	>30	6.4	11.5	3.0	11.5
winding		530	001					
	ntary information:			10 10	8 8	86	32	11 18
Supplemer Note 1: On	ntary information: ly for frequency above e table 5.4.2.4 if this is	30 kHz		ength test;	88	8.8		8 - E 6 - J
Supplemer Note 1: On Note 2: Se	ly for frequency above	30 kHz based on e		ength test;	8 C 2 C	88		8 8 6 6
Supplemer Note 1: On Note 2: Se Note 3: Pro Note 4: Th	ly for frequency above e table 5.4.2.4 if this is	30 kHz based on e la/IIIb;	lectric stre		tween secon	ndary to core	is reinforc	ed

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage P					
1.00	Overvoltage Category (OV):	16 D B			
- C - 2	Pollution Degree:					
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mm)		
See table above.	5.4.2.2, 5.4.2.4 and 5.4.3	8.6-8.8	18 - 18	8 - 8 - 8 - 8		
Suppleme	ntary information:	8888	18 - C. B.	6 8 6 6		

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No		
-6.6	8888	8 - 8 - 8 - 6		S & +8 &		
		100 DF 200	No. of the local	6.06.00.0		

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	TABLE: Distance through insulation measurements					
Distance thro insulation di a		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
Plastic enclos	sure	500	8 8 - 8	See appended table 4.1.2	0.4	1)	



Clause	Requirement + Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

Supplementary information:

1) See table 4.1.2

5.4.9	TABLE: Electric strength tests			Р
Test voltag	ge applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Unit L to N	(Fuse out)	DC	2500	No
Unit primary to secondary		DC	C 4000	
Unit primary to plastic enclosure		DC	DC 4000	
T1:primary	v winding to secondary winding	DC	4000	No
T1:core to	secondary winding	DC	4000	No
One layer i	insulation tape	DC	4000	No
Insulation s	sheet	DC	4000	No
Suppleme	ntary information:	6 8 6 8	6 6 6	67 67

5.5.2.2 TABLE: Stored discharge on capacitors							Р
Supply Volta	age (V/Hz)	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (V) (after 2 seconds)	ES Clas	sification
00.01/			Ν	10 Tax	20	E	S1
264Vac/60Hz	L and N pin	S (R1 open)		72	E	S1	

Supplementary information:

X-capacitors installed for testing are:

- bleeding resistor rating:

Notes:

A. Test Location: Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

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

C. The resistor passed G.10.1 and G.10.2 of IEC62368-1 test, so no need to perform discharge test under single fault condition



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

5.6.6.2	TABLE: Resistance of protective conductors and terminations					
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
-						

5.7.2.2,TABLE: Earthed accessible conductive part5.7.4			N/A	
Supply voltage:		-0 0 0 0 0 0 0	_	
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch curren (mA)	
1. R. J	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1	اکار جکار ا	
		2*		
		3	18-8°	
		4	6	
		5		
		6	° 84-89	
		8		

Supplementary Information:

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

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

6.2.2	Table: Electrical	power sources	(PS) measurements fo	or classification	Р
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s* ⁾	PS Classificatio n
For model : LS	SN-87G-56000116				1.



		E	N 62368-1			
Clause	Requirement + Test	6.6.6	100	Result - R	emark	Verdict
199	5 <u>5 5 5</u>	Power (W) :	1	1	135.52	1000
All circuit	Normal operation	V _A (V) :	28.3	Q., A.,	56.00	PS3
	operation	I _A (A) :			2.42	
For model	: LSN-87G -05000600		100.00		させいた	1000
1. C. 1	S. S. S. S.	Power (W) :		ee.,	52.8	Sec. L
All circuit	Normal operation	V _A (V) :			4.40	PS3
	oporation	I _A (A) :	10000	2.20	12.00	8.8
# Fuse F1 * Unit shut	ntary Information: opened immediately, n down, No hazard. where unit shutdown c				C & C & C & C & C	

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)					
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No	
All circuit	ts (exclude the output terminal)	것 빛성	222	<u> </u>	Yes	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{ms}) is greater than 15.
 Assumption: All circuits inside the equipment enclosure are declared as arcing PIS.

B.2.5	TABLE: Inp	ut test	8.8	6.6	18 18	1997	Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
For model	LSN-87F-12	00600	1. 10	8.85	201	10.2	18. 8. 8.
90V50Hz	1.384	8-8	83.0	8-8	F1	1.384	Max. normal load
90V60Hz	1.441	0.587-365	83.1	0.157.161	F1	1.441	S. 20 J. 5 SS
100V50Hz	1.282	2.0	82.2	1	F1	1.282	



			E	EN 62368-1			
Clause	Requiremen	t + Test	6.4	Re	esult - Rema	ırk	Verdic
1. O	5 . S. A	6 <u>0</u> 0	100	a de la	14 14	2	and the second
B.2.5	TABLE: Inp	ut test	3. 30		2011/02/02	201 - 8	P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
100V60Hz	z 1.229	2.0	82.1		F1	1.229	
240V50Hz	z 0.700	2.0	80.4	\$~£	F1	0.700	그의 언제의
240V60Hz	z 0.650	2.0	80.3	10-10	F1	0.650	1. A. S. S.
264V50Hz	z 0.661		80.5		F1	0.661	
264V60Hz	z 0.603	18-16	80.4	5-5	F1	0.603	888
				1			
For model	: LSN-87F -56	600162					
For model 90V50Hz		600162 	102.3	-0-0	F1	1.668	Max. normal load
	1.668	600162 	102.3 102.7		F1 F1	1.668 1.778	Max. normal load
90V50Hz	1.668 1.778	600162 2.0					Max. normal load
90V50Hz 90V60Hz	1.668 1.778 z 1.569		102.7		F1	1.778	Max. normal load
90V50Hz 90V60Hz 100V50Hz	1.668 1.778 z 1.569 z 1.495	 2.0	102.7 101.7		F1 F1	1.778 1.569	Max. normal load
90V50Hz 90V60Hz 100V50Hz 100V60Hz	1.668 1.778 1.569 1.495 0.839	 2.0 2.0	102.7 101.7 101.4	 	F1 F1 F1	1.778 1.569 1.495	Max. normal load
90V50Hz 90V60Hz 100V50Hz 100V60Hz 240V50Hz	1.668 1.778 1.569 1.495 0.839 0.812	 2.0 2.0 2.0	102.7 101.7 101.4 99.7	 	F1 F1 F1 F1	1.778 1.569 1.495 0.839	Max. normal load



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

Ambient temp	ABLE: Abr			-			See below	
Power source	· ·	-			G	- C - C		
Component No.	Abnormal Condition		Test time	Fuse no.	Fuse	T-couple	 Temp. (°C)	Observation
110.	Condition	, (V)	(ms)		, (A)			
For model : I	_SN-87G-56	6000116						
Transformer	OL	264	9h18m in	F1	$0.586 \rightarrow 0.71 2 \rightarrow 0.7 55 \rightarrow 0.$	Type J	 1.Transformer T1 Winding 106.8℃ 2.Transformer T1 core 103.5℃ 3. Enclosure outside near T1 bottom 63.9℃ 4.Ambient 25.0℃ 	Output overload to 2.20A, and unit shutdown at 2.22A, recoverable, no hazard
Output	OL	264	9h26m in	F1	$0.586 \rightarrow 0.70 \ 9 \rightarrow 0.7 \ 51 \rightarrow 0. \ 018$	Type J	1.Transformer T1 Winding 105.6℃ 2.Transformer T1 core 102.3℃ 3.Enclosure outside near T1 bottom 63.5℃ 4.Ambient 25.0℃	Output overload to 2.16A, and unit shutdown at 2.20A, recoverable, no hazard.
For model : I	_SN-87G -0	5000600						
Transformer	OL	264	9h18m in	F1	$0.308 \rightarrow 0.36$ $3 \rightarrow 0.4$ $16 \rightarrow 0.$ 018	Type J	 1.Transformer T1 Winding 108.5 °C 2.Transformer T1 core 105.7 °C 3. Enclosure outside near T1 bottom 70.9 °C 4. Ambient 25.0 °C 	Output overload to 9.75A, and unit shutdown at 9.80A, recoverable, no hazard.
Output	OL	264	9h52m in	F1	$0.308 \rightarrow 0.36$ $3 \rightarrow 0.4$ $16 \rightarrow 0.$ 018	Type J	1.Transformer T1 Winding 107.6 °C 2.Transformer T1 core 105.1 °C 3.Enclosure outside near T1 bottom 70.3 °C 4.Ambient 25.0 °C	Output overload to 9.6A, and unit shutdown at 9.7A, recoverable, no hazard.



. A.		EN 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

-- -

Supplementary information: OL: Overload, SC: short circuit

1) The overloaded condition is according to annex G.5.3.3.

Winding Limit for T1 winding: 175-10=165K

Ambient tem	perature (°C)			:	25°C, if not	specified	
Power sourc	e for EUT: M	anufacturer,	model/type, o	output rat	ing :	- 0.0	- 20° - 1	_
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current (A)	, couple	Temp. (°C)	Observation
BD1	SC	264	1s	F1				F1 opened immediately, repeat ten times, same result was obtained, no hazards
EC1	SC	264	1s	F1				F1 opened immediately, repeat ten times, same result was obtained, no hazards
Q1 (D-G)	SC	264	1s	F1				F1 opened immediately, repeat ten times, same result was obtained, no hazards
Q1 (D-S)	SC	264	1s	F1				F1 opened immediately, repeat ten times, same result was obtained, no hazards.
Q1(G-S)	SC	264	10mins	F1	0.055			Unit shutdown immediately, no hazards, no damage



	6 C A .	A	A	EN 6236	oð-1	K. M.		A
Clause	Requiren	nent + Test	1.614	1.4	Resu	lt - Remark	60	Verdict
R5	SC	264	1s	F1		-		F1 opened immediately, repeat ten times, same result was obtained, no hazards
U2 pin(1-2)	SC	264	10mins	F1	0.045			Unit shutdown immediately, no hazards, no damage.
U2 pin(3-4)	SC	264	10mins	F1	0.045			Unit shutdown immediately, no hazards, no damage.
U2 pin(1)	OC	264	10mins	F1	0.045			Unit shutdown immediately, no hazards, no damage.
U2 pin(3)	OC	264	10mins	F1	0.046			Unit shutdown immediately, no hazards, no damage.
T1 pin 1-4	SC	264	10mins	F1	0.046			Unit shutdown immediately, no hazards, no damage.
T1 pin 2-3	SC	264	10mins	F1	0.046			Unit shutdown immediately, no hazards, no damage.
T1 pin 6-8	SC	264	10mins	F1	0.046			Unit shutdown immediately, no hazards, no damage.
Q4	SC	264	10mins	F1	0.045			Unit shutdown immediately, no hazards, no damage.
Output	SC	264	10mins	F1	0.018			Unit shutdown immediately, no hazards, no damage.



EN 62368-1					
Requirement + Test	Result - Remark	Verdict			
	Requirement + Test	1. A.			

Supplementary information:

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

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

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Note: Measu	red UOC (V) with all lo	ad circuits disco	nnected:	A. D. S.	2.1.2	1000	
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (VA)		
Circuit			Meas.	Limit	Meas.	Limit	
10.00	0.01.01.00	0.000	3.0. 201	0.001	0.000	10 1	
	ary Information: rcuit, OC=Open circuit)Hz.						

T.2, T.3, T.4, T.5		Steady force tes	8 8 8			98 A.S.
Part/Loc	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Internal cor	mponent	8. A. S	A - 0	10	5	No damaged
Top encl	osure	1)	1)	30	5	No damaged
Side enc	losure	1)	1)	30	5	No damaged
Bottom enclosure		1)	1)	30	5	No damaged

Т.6, Т.9	TABL	E: Impact tests	8 C 8	やくじょう	1. C. C. C. S. S.	N/A
Part/Location	on	Material	Thickness (mm)	Vertical distance (mm)	Observation	
Supplementa	rv infc	ormation [.]	9 A 4	2.2.4	2224	8.48



EN 62368-1						
Clause	Requirement + Test	Result - Remark	Verdict			
12	やややややや	やややややや	S. S. S.			

Т.7 ТА	BLE: Drop tests	8 20 20	28.28.2	8. 19. 9. 9. 9. 9. B	N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Supplementary	information:	8 8 8	1000	10 10 10 10	19. 10

Т.8	TABLE: Str	ess relief te	est	en 187 8.		6. 10. 6	N/A
Part/Locati	on M	aterial	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observa	ation
Supplementa	ary informatio	n:For detail	s refer to append	led table 4.1.2.	11	8 8 I	e . Ze



1

	Attachment No. ²	1 Group Differences and National Differences	
Clause	Requirement + Test	Result - Remark	Verdict
	UROPEAN GROUP DIFFER	ENT TO TEST REPORT IEC 62368-1 RENCES AND NATIONAL DIFFERENCES Inmunication technology equipment - Part 1: Safety requireme	nts)
Differences	accordingto E	EN 62368-1:2014+A11:2017	81.28
		EU_GD_IEC62368_1B_II	
		Nemko AS	
MasterAtta	chment	Date 2017-09-22	
Geneva, Sv	vitzerland. All rights reserve	formity Testing and Certification of Electrical Equipment (ed.	(IECEE),
Geneva, Sv	CENELEC COMMON MOD	ed.	(IECEE),
Geneva, Sv	vitzerland. All rights reserve	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in	P
Content	CENELEC COMMON MOD Clauses, subclauses, notes, IEC 62368-1:2014 are prefix	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in	
Geneva, Sv	CENELEC COMMON MOD Clauses, subclauses, notes, IEC 62368-1:2014 are prefix Add the following annexes: Annex ZA (normative)	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in ed "Z". Normative references to international publications vith their corresponding European publications	P
Geneva, Sv	CENELEC COMMON MOD Clauses, subclauses, notes, IEC 62368-1:2014 are prefix Add the following annexes: Annex ZA (normative)	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in ed "Z". Normative references to international publications vith their corresponding European publications Special national conditions	P
Geneva, Sv	CENELEC COMMON MOD Clauses, subclauses, notes, IEC 62368-1:2014 are prefix Add the following annexes: Annex ZA (normative) V Annex ZB (normative) Annex ZC (informative)	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in ed "Z". Normative references to international publications vith their corresponding European publications Special national conditions A-deviations	P
Geneva, Sv	CENELEC COMMON MOD Clauses, subclauses, notes, IEC 62368-1:2014 are prefix Add the following annexes: Annex ZA (normative)	ed. IFICATIONS (EN) tables, figures and annexes which are additional to those in ed "Z". Normative references to international publications vith their corresponding European publications Special national conditions	Р

Note	4.1.15	Note 3	1	Note	0.2.1
Note c	5.4.2.3.2.2 Table 13	Note	5.2.2.2	Note 1 and 2	4.7.3
Note	5.4.5.1	Note 2	5.4.2.5	Note 1 and 3	5.4.2.3.2.4
Note 2 and 3	5.6.4.2.1	Note	5.5.6	Note	5.5.2.1
Note 2, 3 and 4	10.2.1 Table 39	Note 1 and 2	5.7.6.1	Note	5.7.5
Note 3	F.3.3.6	Note 3	10.6.2.1	Note 2	10.5.3
		nex ZB.	ons, see An	ational condition	or special n
8 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	신물건물	1000	6100	wing note:	dd the follo

2	Add the following note:	소재 1월 1월 1월 2월 3월 4	N/A
10	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	66666	8



	Attachment No.1 Group Differences and	nd National Difference	s
Clause	Requirement + Test	Result - Remark	Verdic
4 74		and the set	NI/A
4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. main protective devices shall be included either as integra parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		N/A
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;		
	b) for components in series with the mains input to the equipment such as the supply cord, appliance couple r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;		
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.		
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	0.000	N/A
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.		N/A



	Attachment No.1 Group Differences ar	nd National Differences	
Clause	Requirement + Test	Result - Remark	Verdic
10.5.1	Add the following after the first paragraph:	0000	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	1. 1. 1. See	6 6 6
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for h, at the end of which the measurement is made.		8 8 8 10 10 10 10 10 10
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	1260	1. 1. 1
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.		888
	Moreover, the measurement shall be made under fau conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, a the end of which the measurement is made.	C. 19. 10. 8.	8 8 8 8 8 8
	For RS1, the dose-rate shall not exceed 1 μ Sv/h taking account of the background level. NOTE Z2 These values appear in Directive	6.0.00	000
40.0.4	96/29/Euratom of 13 May 1996.	N. S. R. S.	
10.6.1	Add the following paragraph to the end of the subclause:EN 71-1:2011, 4.20 and the related tests methods ar measurement distances apply.	nd	N/A
10.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		0.0.0
	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).		
	For intentional radiators, ICNIRP guidelines should b taken into account for Limiting Exposure to Time- Varying Electric, Magnetic, and Electromagnetic Field (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566		



	Attach	ment No.1 Group Difference	s and National Differences	
Clause	Requirement + Te	est	Result - Remark	Verdic
G.7.1	Add the fellowing	note:	2 1 2 2 2 2 2 2 2	N1/A
G.7.1		rnote: rmonized code designations the IEC cord types are given in	00000	N/A
Bibliograp	Add the following	standards:	4월 20일 20일 20일 20일	N/A
hy	Add the following	notes for the standards indicat	ed:	1.0.16
	IEC 60130-9	NOTE Harmonized as EN 60130-9.		
	IEC 60269-2	NOTE Harmonized as HD 60269-2.		
	IEC 60309-1	NOTE Harmonized as EN 60309-1.		
	IEC 60364	NOTE some parts harmonized in HD 384/HD 60364 series.		
	IEC 60601-2-4	NOTE Harmonized as EN 60	0601-2-4.	
	IEC 60664-5	NOTE Harmonized as EN 60	664-5.	1818
	IEC 61032:1997	NOTE Harmonized as EN 61	032:1998 (not modified).	
	IEC 61508-1	NOTE Harmonized as EN 61	508-1.	18.36
	IEC 61558-2-1	NOTE Harmonized as EN 61	558-2-1.	
	IEC 61558-2-4	NOTE Harmonized as EN 61	558-2-4.	8 8
	IEC 61558-2-6	NOTE Harmonized as EN 61	558-2-6.	1.00
	IEC 61643-1	NOTE Harmonized as EN 61	643-1.	18.10
	IEC 61643-21	NOTE Harmonized as EN 61	643-21.	
	IEC 61643-311	NOTE Harmonized as EN 61	643-311.	100
	IEC 61643-321	NOTE Harmonized as EN 61		1.
61	IEC 61643-331	NOTE Harmonized as EN 61	643-331.	
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITION	IS (EN)	N/A



	Attachment No.1 Group Differences an	d National Differences	
Clause	Requirement + Test	Result - Remark	Verdic
4.1.15	Denmark, Finland, Norway and Sweden	6666	N/A
	To the end of the subclause the following is added:	S. G. S. S. S.	Sec. 19-25
	Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	d	
	The marking text in the applicable countries shall be as follows:		
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	6.6.6.8	202
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	6000	2 6 2
	In Norway: "Apparatet må tilkoples jordet stikkontakt"	, N.J. 1980 - 2011 - X	
	In Sweden: "Apparaten skall anslutas till jordat uttag"	1 C & C &	888
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also se Annex G.4.2 of this annex	e	200
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:	1 1 N N N	18 8 8
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	6.6.6.6	840



	Attachment No.1 Group Differences ar	d National Differences	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1 and Annex	Finland and Sweden		N/A
G	To the end of the subclause the following is added: For separation of the telecommunication network fror earth the following is applicable:	n	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	• two layers of thin sheet material, each of which shal pass the electric strength test below, or		
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely fillin the casing, so that clearances and creepage distance do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	g	8 8 8 8 8 8
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (th electric strength test of 5.4.9 shall be performed using 1,5 kV), and	e	6 E 1 I
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	0.00000	6.0
	It is permitted to bridge this insulation with a capacito complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the followir conditions:	g	6
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		6 6 8 8
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	a a a a a	
	the impulse test of 2,5 kV is to be performed before the endurance test in EN $60384-14$, in the sequence of tests as described in EN $60384-14$.	0.0000	10.10
5.5.2.1	Norway	B. S. B. B. B.	N/A
	After the 3rd paragraph the following is added:	30 11년 30 - 10일 30일 4	S. 187
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	66666	st st



	Attachment No.1 Group Differences an	d National Differences	
Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden	0000	N/A
	To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	6266	1000
5.6.1	Denmark	10.10.10.10	N/A
	Add to the end of the subclause	1	87 B. 18
	Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.		1. 1. 1.
	<i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		26
5.6.4.2.1	Ireland and United Kingdom	0.00 20 20	N/A
	After the indent for pluggable equipment type A , the following is added:	e	666
	 the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. 	6.6.6.6	666
5.6.5.1	To the second paragraph the following is added:	6 6 8 6	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:	8 4 8 4 1 1 1 1 1 1	1 6 6
	1,25 mm ² to 1,5 mm ² in cross-sectional area.		
5.7.5	Denmark	S. S. S. S. S.	N/A
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	6200	200



	Attachment No.1 Group Differences ar	nd National Differences	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden	6.6.6.6	N/A
	To the end of the subclause the following is added:	100.00.00.00	30 30 30
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding syster within the building. Therefore the protective earthing the building installation needs to be isolated from the screen of a cable distribution system.	of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	8 10 18 18 18 18 18 18 18 18 18 18 18 18 18	1. 1. 10
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	6 8 8 8	000
	"Apparatus connected to the protective earthing of th building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, se EN 60728-11)"	n	
	NOTE In Norway, due to regulation for CATV- installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	10 10 10 10 10 10 10 10 10 10 10 10	10 10 10 10 10 10
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	6666	666
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsak brannfare. For å unngå dette skal det ved tilkopling a apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	ke	10 10 10 10 10 10 10 10 10
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidig är kopplad till kabel-TV nät kan i vissa fall medfőra ris főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	sk	43 43 43 44 43 44 44 43 44



Attachment No.1 Group Differences and National Differences						
Clause	Requirement + Test	Result - Remark	Verdict			
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protectiv current exceed the limits of 3,5 mA .	e	N/A			
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B. shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until th requirements of Annexes B.3.1 and B.4 are met	10 10 10 10 10 10 10 10 10	N/A			
G.4.2	Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1 1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a,		N/A			



Attachment No.1 Group Differences and National Differences					
Clause	Requirement + Test	Result - Remark	Verdic		
G.4.2	United Kingdom To the end of the subclause the following is added:		N/A		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	12,028			
G.7.1	United Kingdom		N/A		
	To the first paragraph the following is added:	1 8 8 6 6	12 12 12		
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	A. S. S. S. S.	10 10 10 10 10 10 10 10 10		
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		600		
G.7.1	Ireland	Sc. 61, 61, 01, 1	N/A		
	To the first paragraph the following is added:	to the state of the	30.00		
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivaler to the relevant Irish Standard	nt	10 10 10 10 10 10 10 10 10		
G.7.2	Ireland and United Kingdom	6 8 8 8 8	N/A		
	To the first paragraph the following is added:	1 1 1 1 1			
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and u to and including 13 A.		6.6.6		



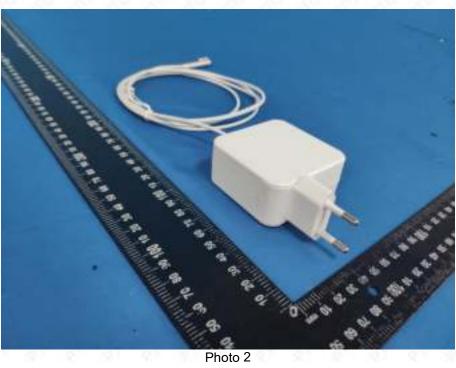
Attachment No.1 Group Differences and National Differences					
Clause	Requirement + Test	Result - Remark	Verdict		
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	6666	N/A		
10.5.2	Germany The following requirement applies:	1 C C C C	N/A		
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization 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.				
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesaller 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	e			



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Photo 1





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Photo 3



Photo 4



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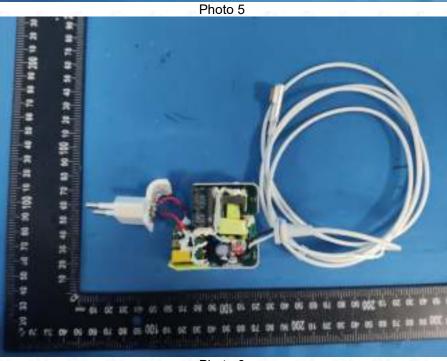


Photo 6

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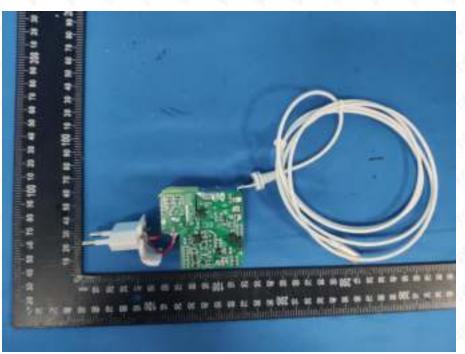


Photo 7



Photo 8

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Photo 9



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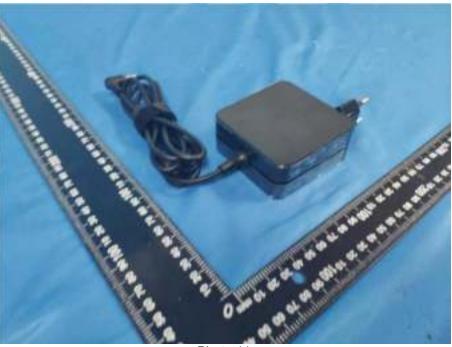


Photo 11



Photo 12



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Photo 13

===End of the report===

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