

Test Report issued under the responsibility of:



TEST REPORT IEC 62368-1

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

Report Number:	ENS2408080026S00101R
Date of issue	2024-11-27
Total number of pages:	65 ostal C ostal C ostal C
Name of Testing Laboratory	EMTEK (Shenzhen) Co., Ltd
preparing the Report	Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China
Applicant's name	Guangzhou Licheng Electronic Technology Co., Ltd
Address :	101, 1st Floor, Building 3, No. 99 Tianyuan Road, Yonghe Economic Zone, Huangpu District, Guangzhou City, China
Test specification:	the state of the second
Standard	IEC 62368-1:2018
Test procedure	CB Scheme
Non-standard test method::	N/A
TRF template used	IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No	IEC62368_1E
Test Report Form(s) Originator :	UL(US)
Master TRF :	Dated 2022-04-14

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

General disclaimer:

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

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Test item description	55 inc	hes high brightness LCD	monitor	
Trade Mark(s)				
Rove Rove				
		SPLAY ADVERTISING		N. CO
Manufacturer	Same	as Applicant		
Model/Type refer <mark>ence</mark>	LCD-5	5H		
Ratings:	Input:	100-240V~, 50/60Hz, 3	A Max.	
CONTR. CONTR.		VER. NOV	ele	
Responsible Testing Laboratory (as a	pplical	ole), testing procedure	and testing location(s):
CB Testing Laboratory:		EMTEK (Shenzhen) C	o., Ltd	rsinc
Testing location/ address		Bldg 69, Majialong Ind Shenzhen, <mark>Gu</mark> angdon	ustry Zone, Nanshan Dis g, China	strict,
Tested by (name, function, signature)	:	Alan Ye / Project Handler	Alante	
Approved by (name, function, signatu	ire) :	Angel Lan / Reviewer	mgel la	NY CO
	20	FRISH P	RISING	TISING
Testing procedure: CTF Stage 1:	C AU			
Testing location/ address	:	PLAY CAN	PLAY CAL	
Tested by (name, function, signature)		Ref ISA		(1 ⁵ /1 ⁴)
Approved by (name, function, signatu	ıre) :			
		eptA G	PLA'G	rising
lesting procedure: CTF Stage 2:	AD'		e. Kohe	
lesting location/ address	:			
Tested by (name, function, signature)		St Since	She She	TSING
Witnessed by (name, function, signate	ure).:			
Approved by (name, function, signatu	ire) :	NAL CITY	AN CITY	AY CON
Testing procedure: CTF Stage 3:				12.
Testing procedure: CTF Stage 4:		N COL	N C	N CO
Testing location/ address				15114
Tested by (name, function, signature)	:			
Witnessed by (name, function, signate	ure).:	Set And	St Chic St Chic	ISING
Approved by (name, function, signatu	I <mark>re</mark>):		PO.	
Supervised by (name, function, signation	ture) :	AN COL	AN CAL	N. CT
OF ALBRY		IS TSING	RISIN	TISIN

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

- National Differences (9 pages)

- Enclosures (10 pages)

Summary of testing:

Testing location: Tests performed (name of test and test clause): Glass fixation test (4.4.3.7, T.9) EMTEK (Shenzhen) Co., Ltd Classification of electrical energy sources (5.2) Bldg 69, Majialong Industry Zone, Nanshan District, Temperature measurements (5.4.1.4, 9.3, B.1.5, Shenzhen, Guangdong, China B.2.6) Minimum Clearances/Creepage distance (5.4.2, 5.4.3) Humidity conditioning (5.4.8) Electric strength tests (5.4.9) Stored discharge on capacitors (5.5.2.2) Resistance of protective conductors and terminations (5.6.6) Unearthed accessible parts (5.7.4) Earthed accessible conductive part (5.7.5) Power source circuit classifications (6.2.2) Input test (B.2.5) Abnormal operating and fault condition tests (B.3, B.4) Durability, legibility and permanence of markings (F.3.9, F.3.10) Protection circuits for batteries provided within the equipment (M.3) Circuits intended for interconnection with building wiring (LPS) (Annex Q.1) Steady force test (T.2, T.3, T.5) Impact tests (T.6, T.9)

Summary of compliance with National Differences (List of countries addressed): USA / Canada.

☑ The product fulfills the requirements of UL 62368-1 3rd Edition, Revised October 22, 2021.
 ☑ The product fulfills the requirements of CAN/CSA C22.2 No. 62368-1:19, 3rd Edition, Revised October 22, 2021.

Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

Other: (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

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

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

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



Copy of marking plate:

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



Remark:

For the final production samples, the additional markings which do not give rise to misunderstanding may be added.

Test item particulars:	
Product group	end product 🛛 built-in component
Classification of use by:	☐ Ordinary person ☐ Children likely present
NO.	Instructed person
	Skilled person
Supply connection:	AC mains DC mains
Deter Dorer	not mains connected:
alle alle	
Supply tolerance:	
Superior Superior	L +20%/-15%
	□ + %/- %
Supply connection – type	piuggable equipment type A -
	appliance coupler
Displance Displance Displance	D pluggable equipment type B -
Rove Rove	non-detachable supply cord
all all a show the second s	appliance coupler
DSPLATC DSPLATC	permanent connection
ADTER. ADTER.	mating connector conter:
Considered current rating of protective	≥ 20A
device:	Location: 🛛 building 🗌 equipment
Succession Succession Succession	
Equipment mobility:	movable hand-held transportable
MAIN CAN AND MAIN	☐ direct plug-in
Overveltage estagery (OVC)	
Overvoltage category (Ove)	
Class of equipment	
	□ Not classified □
Special installation location	N/A ☐ restricted access area
DSPLATE DSPLATE DSPLATE	outdoor location
Pollution degree (PD):	🗌 PD 1 🧹 🖾 PD 2 🧹 🗌 PD 3
Manufacturer's specified Tma	45°C Outdoor: minimum °C
IP protection class	⊠ IPX0 □ IP
Power systems	⊠ TN □ TT □ IT - 230 V 📖
	not AC mains
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	⊠ 2000 m or less □ m
Mass of equipment (kg):	Approx. 20kg

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Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item	2024-08-22
Date (s) of performance of tests	2024-08-22 to 2024-09-09
General remarks:	all all
"(See appended table)" refers to a table appended t	is used as the decimal separator.
"(See appended table)" refers to a table appended t Throughout this report a comma / point i Manufacturer's Declaration per sub-clause 4.2.5	is used as the decimal separator.
"(See appended table)" refers to a table appended t Throughout this report a comma / point i Manufacturer's Declaration per sub-clause 4.2.5	is used as the decimal separator. of IECEE 02:
"(See appended table)" refers to a table appended to Throughout this report a comma / point in Manufacturer's Declaration per sub-clause 4.2.5 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	to the report. is used as the decimal separator. of IECEE 02: Yes Not applicable
"(See appended table)" refers to a table appended to Throughout this report a comma / point is Manufacturer's Declaration per sub-clause 4.2.5 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	to the report. is used as the decimal separator. of IECEE 02: ☐ Yes ⊠ Not applicable in the General product information section.
"(See appended table)" refers to a table appended to Throughout this report a comma / point in Manufacturer's Declaration per sub-clause 4.2.5 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	is used as the decimal separator. of IECEE 02: Yes Not applicable in the General product information section. Guangzhou Licheng Electronic Technology C
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General product information and other remarks:

Product Description:

The equipment is Class I 55 inches high brightness LCD monitor which is intended to use as Audio/video, information and communication technology equipment.

- 1. This equipment consists of following critical parts:
 - LCD module 55" with LED backlight;
 - The rear is an open structure, and only the front panel can be accessed after finally installed;
 - Approved Building-in Switching Power Supply;
 - Main board (are ES1 circuit, at the same time, the customer defines that all secondary terminals are inaccessible after final installation).
- 2. A separately approved/certified power cord that incorporates plugs which complies with the special national requirements shall be provided with this unit when marking in the specified countries.

Additional Information:

The Label in Copy of marking plate is a draft of an artwork pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

Engineering Conditions of Acceptability

1. The following end-product enclosures are required: Mechanical, Fire, Electrical (except front panel side).

2. This equipment was not evaluated for system mounting. When installed in the end product proper evaluation should be considered.

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OVERVIEW OF ENERGY SOU	SICES AND SAFEGUARDS				
Clause	Possible Hazard	DSPL-0			
5	Electrically-caused injury	C. ADV			
Class and Energy Source	Body Part	-PLAY	Safeguards	NAY CON	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES3: X capacitor connected between L and N	Assumed to be accessible by Ordinary person	N/A	N/A	See 5.5.2.2	
ES3: All circuits except all secondary terminals	Assumed to be accessible by Ordinary person	See 5.4.2, 5.4.3	PE	Recognized Switching Power Supply board used, and Built-in component, enclosure should be provided in end product	
ES1: All secondary terminals	Assumed to be accessible by Ordinary person	N/A	N/A	N/A	
6	Electrically-caused fire	C ADIE			
Class and Energy Source	Material part	-NAY	Safeguards	AL CI	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1st S	2nd S	
PS3: All circuits except all secondary terminals	Metal enclosure	See 6.3	See 6.4.5, 6.4.6	Building-in equipment, shall evaluated in final system	
PS3: All circuits except all secondary terminals	PCB	See 6.3	V-1 or better	N/A	
PS3: All circuits except all secondary terminals	Internal / external wiring	See 6.3	See 6.5	N/A	
PS3: All circuits except all secondary terminals	The other components/materials	See 6.3	See 6.4.5, 6.4.6	N/A	
PS1: All secondary terminals	The other components/materials	N/A	N/A	N/A	
7	Injury caused by hazardous s	ubstances			
Class and Energy Source	Body Part	Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
RTC battery on mainboard (Electrolyte)	Assumed to be accessible by Ordinary person	N/A	N/A	See Annex M.3	
8	Mechanically-caused injury	ADVER		DACK.	
Class and Energy Source	Body Part	Ya.	Safeguards	NAY CAL	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	

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MS3: Equipment mass	Ordinary person	N/A	N/A	Stationary equipment
Sharp edges and corners (Building-in equipment, shall be evaluated in final system)	Ordinary person	N/A	N/A	N/A
9	Thermal burn	-SPLAYO	CI.	SPLAY CI
Class and Energy Source	Body Pa <mark>rt</mark>	ADVERIN	Safeguards	ROVERI
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS3: Internal parts/circuits	Ordinary	N/A	N/A	Building-in equipment, shall evaluated in final system
TS1: Accessible surfaces (front panel side).	Ordinary	N/A	N/A	N/A
10	Radiation	DISPLANC DISPLANC		DISPLANC
Class and Energy Source	Body Part	ADVI-	Safeguards	20 ¹¹
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED backlight circuit (<10 ⁴ cd/ m ²)	Ordinary	N/A	N/A	N/A
RS1: LED Indicator	Ordinary	N/A	N/A	N/A
Supplementary Information:	A DERTSING	· ABERTSING		PLET SIL

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

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ENERGY SOURCE DIAGRAM

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

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

🗌 PS

ES

🗆 TS 🛛 RS

Details see OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

MS

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ADVERTIS	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
DISPLATIONG	Dist the second s	DISPLATIC DISPLATION	G
4	GENERAL REQUIREMENTS	C POV	Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G.	P
4.1.3	Equipment design and construction	JSPLANG DSPLAN	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	- M - OLL M	N/A
4.1.5	Constructions and components not specifically covered	all and a second and	N/A
4.1.8	Liquids and liquid filled components (LFC)		N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	The equipment is a building-in type, consider on the front panel side. Other sides should be evaluated in final system.	P
4.4.3.1	General		Р
4.4.3.2	Steady force tests	The equipment is a building-in type, consider on the front panel side (See appended Table T.2, T.3, T.4, T.5). Other sides should be evaluated in final system.	P
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	The equipment is a building-in type, consider on the front panel side (see appended Table T.6, T.9). Other sides should be	P
ADV-	Level to the second	evaluated in final system.	
4.4.3.5	Internal accessible safeguard tests	PLAY CITY PLAY	N/A
4.4.3.6	Glass impact tests	Laminated glass used for panel	N/A
4.4.3.7	Glass fixation tests	SPLAY CALL SPLAY	Р
DVERTIS!	Glass impact test (1J)	1J, 204mm, 3 times	Р

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 10N Push/pull test (10 N) Р 4.4.3.8 Thermoplastic material tests N/A 4.4.3.9 Р Air comprising a safeguard (See Annex T) 4.4.3.10 Accessibility, glass, safeguard effectiveness Р 4.4.4 Displacement of a safeguard by an insulating liquid N/A 4.4.5 Safety interlocks No safety interlock used N/A Ρ 4.5 Explosion 4.5.1 Р General No explosion occurs during normal/abnormal operation and single fault conditions, See appended table B.2.6, B.3 and B.4, Annex M 4.5.2 No explosion during normal/abnormal operating Ρ condition Р No harm by explosion during single fault conditions 4.6 Fixing of conductors Р Fix conductors not to defeat a safeguard Ρ Compliance is checked by test: Ρ 4.7 Equipment for direct insertion into mains socket-outlets N/A 4.7.2 Mains plug part complies with relevant standard ...: Not direct plug-in equipment N/A 4.7.3 Torque (Nm): N/A 4.8 N/A Equipment containing coin/button cell batteries 4.8.1 General N/A 4.8.2 N/A Instructional safeguard 4.8.3 Battery compartment door/cover construction N/A Open torque test N/A 4.8.4.2 Stress relief test N/A 4.8.4.3 N/A Battery replacement test 4.8.4.4 N/A Drop test 4.8.4.5 Impact test N/A 4.8.4.6 Crush test N/A 4.8.5 N/A Compliance N/A 30N force test with test probe N/A 20N force test with test hook 4.9 Likelihood of fire or shock due to entry of conductive object Ρ 4.10 **Component requirements** Ρ

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ADVERTIS	ADVER IN	IEC 62368-1	ADVERING	ADVERING
Clause	Requirement + Test		Result - Remark	Verdict
4.10.1	Disconnect Device	A STRATISTICS	(See Annex L)	Р
4.10.2	Switches and relays		Complied	Р
-ISPLAY	C SPLAY C	SPLAYS CA	ISPLAY CI	SPLATE CA

5	ELECTRICALLY-CAUSED INJURY	ADVER	ADVER	Р
5.2	Classification and limits of electrical energy source	ces		Р
5.2.2	ES1, ES2 and ES3 limits	See below		
5.2.2.2	Steady-state voltage and current limits:	(See appended tabl	e <mark>5</mark> .2)	Р
5.2.2.3	Capacitance limits	(See appended tabl	e 5.2)	Р
5.2.2.4	Single pulse limits	S DIERIS	ADVERTIS'	N/A
5.2.2.5	Limits for repetitive pulses			N/A
5.2.2.6	Ringing signals	DISPLANC	DISPLA	N/A
5.2.2.7	Audio signals	POILS	ADVER	N/A
5.3	Protection against electrical energy sources		. 67	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	NOVERISION	L DUERTSIN	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	Under single fault of the circuit between ES2/ES3 circuits an accessible ES1 circ current or voltage le not exceed the ES1	onditions in the nd uits, the evels shall limits	Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	- NOVE	AOV ¹	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	NOVERISING NO	- ADVERTON	N/A
	Accessibility to outdoor equipment bare parts	Indoor equipment		N/A
5.3.2.2	Contact requirements	DISPLANG SING	DISPLA	N/A
P0.1.	Test with test probe from Annex V	Building-in equipme evaluated in final sy	nt <mark>,</mark> shall stem	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	DISPLATIC SING	DISPLA	N/A
5.3.2.2 b)	Air gap – distance (mm)	- POV	ADAR	N/A
5.3.2.3	Compliance	AN CA	DIA!	N/A
5.3.2.4	Terminals for connecting stripped wire	A CHERTISING	DVERTISIN	N/A
5.4	Insulation materials and requirements			Р
5.4.1.2	Properties of insulating material	SPLANG LA	SPLAY	Р
5.4.1.3	Material is non-hygroscopic	(See sub-clause 5.4	l.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials	(See appended tabl 9.3, B.1.5, B.2.6)	e 5.4.1.4,	Р

IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.4.1.5 Pollution degrees: Pollution degree 2 ---5.4.1.5.2 Test for pollution degree 1 environment and for an N/A insulating compound 5.4.1.5.3 N/A Thermal cycling test 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: Evaluated in certified Р Switching Power Supply 5.4.1.9 Insulating surfaces Ρ 5.4.1.10 Thermoplastic parts on which conductive metallic Evaluated in certified Р parts are directly mounted Switching Power Supply 5.4.1.10.2 Vicat test..... N/A 5.4.1.10.3 Ρ Ball pressure test Evaluated in certified Switching Power Supply 5.4.2 Р Clearances Procedure 2 is higher. Hence the determination of clearance is by procedure 2. (See appended table 5.4.2, 5.4.3)5.4.2.1 General requirements Ρ Clearances in circuits connected to AC Mains, N/A Alternative method 5.4.2.2 Ρ Procedure 1 for determining clearance (See appended table 5.4.2, 5.4.3) 2000V peak Temporary overvoltage: 5.4.2.3 Procedure 2 for determining clearance (See appended table 5.4.2, Ρ 5.4.3) 5.4.2.3.2.2 2500V peak a.c. mains transient voltage: 5.4.2.3.2.3 No connections to d.c. mains. d.c. mains transient voltage 5.4.2.3.2.4 External circuit transient voltage.....: No connections to external circuit with transient voltage. 5.4.2.3.2.5 Transient voltage determined by measurement: 5.4.2.4 N/A Determining the adequacy of a clearance using an See above electric strength test: 5.4.2.5 Multiplication factors for clearances and test voltages N/A 5.4.2.6 Clearance measurement (See appended table 5.4.2, Ρ 5.4.3) 5.4.3 Creepage distances (See appended table 5.4.2, Ρ 5.4.3)

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.4.3.1 General See below Р 5.4.3.3 IIIb Material group 5.4.3.4 Ρ Creepage distances measurement: (See appended table 5.4.2, 5.4.3) 5.4.4 Solid insulation N/A 5.4.4.1 General requirements N/A 5.4.4.2 N/A Minimum distance through insulation: 5.4.4.3 N/A Insulating compound forming solid insulation 5.4.4.4 Solid insulation in semiconductor devices Evaluated in certified Switching P Power Supply 5.4.4.5 Insulating compound forming cemented joints N/A 5.4.4.6 Thin sheet material Р 5.4.4.6.1 General requirements Ρ 5.4.4.6.2 Separable thin sheet material Evaluated in certified Р Switching Power Supply Evaluated in certified Switching Number of layers (pcs) Ρ Power Supply 5.4.4.6.3 Non-separable thin sheet material N/A N/A Number of layers (pcs): 5.4.4.6.4 N/A Standard test procedure for non-separable thin sheet material 5.4.4.6.5 Mandrel test N/A 5.4.4.7 Solid insulation in wound components Evaluated in certified Р Switching Power Supply 5.4.4.9 Evaluated in certified Switching Ρ Solid insulation at frequencies >30 kHz, EP, KR, d, Power Supply VPw (V).....: Alternative by electric strength test, tested voltage N/A (V), *K*R.....: 5.4.5 N/A Antenna terminal insulation 5.4.5.1 General N/A 5.4.5.2 Voltage surge test N/A N/A 5.4.5.3 Insulation resistance (MΩ).....: N/A Electric strength test 5.4.6 Insulation of internal wire as part of supplementary N/A safeguard 5.4.7 Tests for semiconductor components and for N/A cemented joints 5.4.8 Humidity conditioning Ρ

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Relative humidity (%), temperature (°C), duration 95%, 40°C, 120h 5.4.9 Electric strength test (See appended table 5.4.9) Ρ 5.4.9.1 Test procedure for type test of solid insulation.....: Compliance was checked immediately following temperature test in 5.4.1.4 and test on a sample of the transformer raised to the Р relevant temperature as measured during that test. After Humidity conditioning, retested Test procedure for routine test 5.4.9.2 N/A 5.4.10 Safeguards against transient voltages from external No such external circuits N/A circuits 5.4.10.1 Parts and circuits separated from external circuits N/A 5.4.10.2 Test methods N/A 5.4.10.2.1 General N/A 5.4.10.2.2 N/A Impulse test: 5.4.10.2.3 Steady-state test.....: N/A 5.4.10.3 Verification for insulation breakdown for impulse N/A test: 5.4.11 Separation between external circuits and earth N/A 5.4.11.1 N/A Exceptions to separation between external circuits and earth 5.4.11.2 N/A Requirements N/A SPDs bridge separation between external circuit and earth Rated operating voltage Uop (V)..... Nominal voltage Upeak (V).....: Max increase due to variation ΔU_{sp} Max increase due to ageing ΔU_{sa} 5.4.11.3 Test method and compliance: N/A 5.4.12 Insulating liquid N/A 5.4.12.1 General requirements N/A 5.4.12.2 Electric strength of an insulating liquid: N/A 5.4.12.3 Compatibility of an insulating liquid N/A 5.4.12.4 Container for insulating liquid: N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards	Profession Profession	Р
5.5.1	General	See the following details.	Р
5.5.2	Capacitors and RC units	Evaluated in certified Switching Power Supply	Р
5.5.2.1	General requirement	See the following details.	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	Р
5.5.3	Transformers	Evaluated in certified Switching Power Supply	Р
5.5.4	Optocouplers	Evaluated in certified Switching Power Supply	Р
5.5.5	Relays	Evaluated in certified Switching Power Supply	Ρ
5.5.6	Resistors		N/A
5.5.7	SPDs	DISPLATIC LA DISPLATION	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	Roter Roter	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	DISPLATION DISPLATION	○ N/A
ADVE	RCD rated residual operating current (mA)	ADV. CROV.	_
5.6	Protective conductor		Р
5.6.2	Requirement for protective conductors	Parsie Parsie	Р
5.6.2.1	General requirements	See below.	Р
		building-in type and evaluation is also to be made during the final system approval.	
5.6.2.2	Colour of insulation	Green and yellow	Р
5.6.3	Requirement for protective earthing conductors	Approved AC inlet used, no power supply cord provided	Р
DISPLAIS	Protective earthing conductor size (mm ²):	Approved AC inlet used	6
AO.	Protective earthing conductor serving as a reinforced safeguard	- a colle a	N/A
ADVERTISING	Protective earthing conductor serving as a double safeguard	Construction of the second	N/A
5.6.4	Requirements for protective bonding conductors		Р
5.6.4.1	Protective bonding conductors	Complied with requirement of Clause 5.6.6	Р
, A	Protective bonding conductor size (mm ²)	Bonding wire: min. 12AWG	
5.6.4.2	Protective current rating (A)	20A	Р

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ADVERIN	EC 62368-1	ADVERTING ADVERTING	
Clause	Requirement + Test	Result - Remark	Verdict
5.6.5	Terminals for protective conductors		Р
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	Approved appliance inlet used for connecting protective earthing conductor	P
-sertation	Terminal size for connecting protective bonding conductors (mm)	Terminal for protective bonding conductor comply with 5.6.6 Thread diameter (screw type):	P
Poverno.	THE BUSINE COLE BUSINE COL	Thread diameter (pillar type): min. 3.5mm.	cni
5.6.5.2	Corrosion	a Charlen	P
5.6.6	Resistance of the protective bonding system	See below.	Р
POSPLANC		However, the equipment is a building-in type and evaluation is also to be made during the final system approval.	
5.6.6.1	Requirements	a Marisino - Marisin	Р
5.6.6.2	Test Method:	(See appended table 5.6.6)	Р
5.6.6.3	Resistance (Ω) or voltage drop:	(See appended table 5.6.6)	Р
5.6.7	Reliable connection of a protective earthing conductor	NOTE NOTE	N/A
5.6.8	Functional earthing	SPLAY OSPLAY	N/A
ADVER	Conductor size (mm ²):	Date Date	N/A
2	Class II with functional earthing marking		N/A
PISPLENG I	Appliance inlet cl & cr (mm):	Derising Derising	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	Р
5.7.2	Measuring devices and networks	SPLAY CITY SPLAY	Р
5.7.2.1	Measurement of touch current	Figure 4 of IEC 60990 is used in determination of limits of ES1.	P
5.7.2.2	Measurement of voltage	Figure 4 of IEC 60990 is used in determination of limits of ES1.	P
5.7.3	Equipment set-up, supply connections and earth connections	Clause 4 and sub-clauses 5.3 and 5.4 of IEC 60990 applied	Р
5.7.4	Unearthed accessible parts:	(See appended table 5.7.4)	Р
5.7.5	Earthed accessible conductive parts:	(See appended table 5.7.5)	Р
5.7.6	Requirements when touch current exceeds ES2 limits	Current not exceeding ES2.	N/A
(A) 7			

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AOVERIN	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
AND	Protective conductor current (mA)		N/A
A	Instructional Safeguard		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	PSPAN PSPAN	N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	PSPAN CI PSPAN	N/A
5.7.8	Summation of touch currents from external circuits		N/A
DVERISING	a) Equipment connected to earthed external circuits, current (mA)	Contraction of the second	N/A
-oLA'	b) Equipment connected to unearthed external circuits, current (mA)	and and an	N/A
5.8	Backfeed safeguard in battery backed up supplie	s	N/A
»	Mains terminal ES	No such parts.	N/A
SPLATO	Air gap (mm):	SPLA'S SPLA	N/A

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6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	DISPLATIC DISPLATION	Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	Р
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3)	P
- AO 144	Combustible materials outside fire enclosure:	- Port	N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard method	Method of control of fire spread was applied.	Ρ
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	OSPUSI	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Control fire spread considered	N/A
6.4.3.1	Supplementary safeguards	DISPLACE DISPLA	N/A
6.4.3.2	Single Fault Conditions:		N/A
- PLAY	Special conditions for temperature limited by fuse	ALO AND	N/A
6.4.4	Control of fire spread in PS1 circuits	· Charles - Charles	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:	· •
	THE MANY CALL MANY CAL	-Printed board: V-1 min. -Wire insulation: complying with Clause 6.5.	5
		-Al other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying to relevant IEC standard	Р
	and the second sec	-Isolating transformer: complying with G.5.3.	6
6.4.6	Control of fire spread in PS3 circuits	Building-in equipment, shall evaluated in end system	Р
6.4.7	Separation of combustible materials from a PIS	a poverto	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	DISPLATIC DISPLATION	N/A
6.4.8	Fire enclosures and fire barriers	Building-in equipment, shall evaluated in end system	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	DISPLATION DISPLATION	N/A
6.4.8.2.1	Requirements for a fire barrier	- Port	N/A
6.4.8.2.2	Requirements for a fire enclosure		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	C. Salar	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	Aller Aller	N/A
6.4.8.3.2	Fire barrier dimensions	· Dyears" · Dyears"	N/A
6.4.8.3.3	Top openings and properties		N/A
DVERTISING	Openings dimensions (mm):	Building-in equipment, shall evaluated in end system	N/A
6.4.8.3.4	Bottom openings and properties		N/A
ADVERTISING	Openings dimensions (mm):	Building-in equipment, shall evaluated in end system	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
SPLANC	Instructional Safeguard	OSPLANC OSPLANC	N/A
6.4.8.3.5	Side openings and properties	ADVO.	N/A
SPLANG	Openings dimensions (mm):	Building-in equipment, shall evaluated in end system	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	Contraction Contraction	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	DSPLAY CITY DSPLAY	N/A
6.4.9	Flammability of insulating liquid	AU.	N/A
6.5	Internal and external wiring	MAK CALL STAN	Р
6.5.1	General requirements	Internal input wires comply with UL 758, which has the equivalent requirement with IEC/TS 60695-11-21.	P
6.5.2	Requirements for interconnection to building wiring	NORTH ROLL NORTH	N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:	SPLAY CA SPLAY	N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

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

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	SPLAY CI SPLAY	Р
8.3	Safeguards against mechanical energy sources	ADVER'S ADDER	Р
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1	Safeguards	MS1 for accessible surface of equipment. MS3 for Mass of equipment	Р
PISPLE INC	Instructional Safeguard:	Brisic Brisic	N/A
8.4.2	Sharp edges or corners		Р
8.5	Safeguards against moving parts	Alas Play	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	- torest	N/A
PISPLAN C	MS2 or MS3 part required to be accessible for the function of the equipment	BARRY CI. BARRY	N/A

IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Moving MS3 parts only accessible to skilled person N/A 8.5.2 Instructional safeguard..... N/A 8.5.4 N/A Special categories of equipment containing moving No moving parts. parts 8.5.4.1 General N/A 8.5.4.2 Equipment containing work cells with MS3 parts N/A 8.5.4.2.1 Protection of persons in the work cell N/A 8.5.4.2.2 Access protection override N/A 8.5.4.2.2.1 N/A Override system 8.5.4.2.2.2 Visual indicator N/A 8.5.4.2.3 N/A Emergency stop system Maximum stopping distance from the point of N/A activation (m)..... Space between end point and nearest fixed N/A mechanical part (mm)..... 8.5.4.2.4 Endurance requirements N/A Mechanical system subjected to 100 000 cycles of N/A operation Mechanical function check and visual inspection N/A N/A - Cable assembly: 8.5.4.3 N/A Equipment having electromechanical device for destruction of media 8.5.4.3.1 Equipment safeguards N/A 8.5.4.3.2 Instructional safeguards against moving parts: N/A 8.5.4.3.3 Ρ Disconnection from the supply Approved power switch used. 8.5.4.3.4 Cut type and test force (N).....: N/A 8.5.4.3.5 N/A Compliance N/A 8.5.5 High pressure lamps No high pressure lamps. Explosion test: N/A 8.5.5.3 Glass particles dimensions (mm): N/A 8.6 Stability of equipment N/A 8.6.1 N/A General Building-in equipment N/A Instructional safeguard.....: 8.6.2 Static stability N/A 8.6.2.2 Static stability test N/A 8.6.2.3 Downward force test N/A

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 8.6.3 **Relocation stability** N/A Wheels diameter (mm) Tilt test N/A 8.6.4 Glass slide test N/A 8.6.5 Horizontal force test N/A 8.7 Equipment mounted to wall, ceiling or other structure N/A 8.7.1 N/A Mount means type 8.7.2 N/A Test methods Test 1, additional downwards force (N)..... N/A Test 2, number of attachment points and test force N/A (N).....: Test 3 Nominal diameter (mm) and applied torque N/A (Nm)..... 8.8 Handles strength N/A General N/A 8.8.1 8.8.2 N/A Handle strength test Number of handles.....: Force applied (N) 8.9 Wheels or casters attachment requirements N/A 8.9.2 Pull test N/A 8.10 Carts, stands and similar carriers N/A 8.10.1 General N/A N/A 8.10.2 Marking and instructions 8.10.3 Cart, stand or carrier loading test N/A Loading force applied (N) N/A 8.10.4 Cart, stand or carrier impact test N/A 8.10.5 Mechanical stability N/A Force applied (N): 8.10.6 Thermoplastic temperature stability N/A Mounting means for slide-rail mounted equipment (SRME) 8.11 N/A 8.11.1 N/A General Not such equipment 8.11.2 N/A Requirements for slide rails Instructional Safeguard: N/A N/A 8.11.3 Mechanical strength test 8.11.3.1 Downward force test, force (N) applied.....: N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.11.3.2	Lateral push force test	A Charles in the	N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance	ISPLANCE CAL	N/A
8.12	Telescoping or rod antennas	ADVER	N/A
2	Button/ball diameter (mm)	No antennas	_
SPL ING		DISPISING	DISPIENC

9	THERMAL BURN INJURY		P
- 0.2	Thermal operations classifications		D
9.2	Thermal energy source classifications	SPLA	3
9.3	Touch temperature limits	Polet.	Р
9.3.1	Touch temperatures of accessible parts:	All internal parts are classified as TS3.	Р
	ENLE POINT ENLE POINT ENL	All accessible surfaces (front panel side) are classified as TS1, see appended table 5.4.1.4, 9.3, B.1.5, B.2.6.	
	ENLE POSTAN ENLE POSTAN ENL	However, the equipment is a building-in type and evaluation is also to be made during the final system approval.	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources	ALON AND AND AND AND AND AND AND AND AND AN	Р
9.5	Requirements for safeguards	Difference Solution	Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General	No such parts.	N/A
9.6.2	Specification of the foreign objects	Port Port	N/A
9.6.3	Test method and compliance		N/A

10	RADIATION		Р
10.2	Radiation energy source classification	SPLAY SPLAY	Р
10.2.1	General classification	See table of "Overview of employed safeguards" for details	P
PLETISING	Lasers	No laser radiation.	_
	Lamps and lamp systems		
SPLANC	Image projectors:	OSPLA ¹ C	2

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ADVER	EC 62368-1	ADVA ADVAN	r
Clause	Requirement + Test	Result - Remark	Verdict
PUERTISING	X-Ray:		_
	Personal music player		
10.3	Safeguards against laser radiation	SPLATE SPLAT	N/A
ROVERE	The standard(s) equipment containing laser(s) comply	- Torre - Contraction	N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	P
10.4.1	General requirements	LED used for indicating light and LED backlight (less than 10000cd/m ²) used within this equipment is considered as RS1	Ρ
SOVERISING	Instructional safeguard provided for accessible radiation level needs to exceed	PARK CONTRACTOR	N/A
	Risk group marking and location		N/A
SPLA SING	Information for safe operation and installation	DSPLA'S DSPLA	N/A
10.4.2	Requirements for enclosures	ADVID ADVID	N/A
	UV radiation exposure		N/A
10.4.3	Instructional safeguard	· DERISING	N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements	No such x-radiation generated from the equipment	N/A
	Instructional safeguard for skilled persons	AL-	
10.5.3	Maximum radiation (pA/kg):	DISPLATIC LAR DISPLA	o
10.6	Safeguards against acoustic energy sources	AU.	N/A
10.6.1	General	Not such equipment.	N/A
10.6.2	Classification	Cherts"	N/A
	Acoustic output <i>L</i> Aeq,T, dB(A)		N/A
SPLANG	Unweighted RMS output voltage (mV)	SPLANC SPLA	N/A
ADVERY	Digital output signal (dBFS)	Pola. Pola	N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements	Strains Strains	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	aptay China apta	N/A
ADVER I CIL	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A):		N/A
10.6.4	Measurement methods	OSPLATIC DISPLATION	N/A

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ADVERIL	IEC 62368-1	ADVERT	RIN
Clause	Requirement + Test	Result - Remark	Verdict
10.6.5	Protection of persons	- Olarisin - Ola	N/A
þ	Instructional safeguards		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	Planta Charles	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
SPLAY	Listening device input voltage (mV):	SPLAY'S LANS	N/A
10.6.6.2	Corded listening devices with digital input	- ADVEN ADVE	N/A
Z	Max. acoustic output <i>L</i> Aeq,T, dB(A)		N/A
10.6.6.3	Cordless listening devices	DISPLANCE DIS	N/A
* AD1	Max. acoustic output <i>L</i> Aeq,T, dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
B.2	Normal operating conditions	SPLANC SPLANC	Р
B.2.1	General requirements	Maximum rated output applied	Р
SPLAY SING	Audio Amplifiers and equipment with audio amplifiers	DERLAY EN DERLAY	N/A
B.2.3	Supply voltage and tolerances	±10% of rated voltage	Р
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	Propriore Province	Р
B.3.1	General	(See appended table B.3, B.4)	Р
B.3.2	Covering of ventilation openings	Building-in equipment, shall evaluated in end system	N/A
3	Instructional safeguard	Not such equipment.	N/A
B.3.3	DC mains polarity test	PSP Straws	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.3, B.4)	Р
B.3.6	Reverse battery polarity	C POLICI	N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3, B.4)	Р
B.4	Simulated single fault conditions		Р
B.4.1	General	Contraction of the second	Р

IEC 62368-1 Clause Requirement + Test Result - Remark Verdict B.4.2 Temperature controlling device N/A B.4.3 N/A Blocked motor test Building-in equipment, shall evaluated in end system Р B.4.4 Functional insulation (See appended table B.3, B.4) B.4.4.1 Р Short circuit of clearances for functional insulation (See appended table B.3, B.4) B.4.4.2 Р Short circuit of creepage distances for functional (See appended table B.3, B.4) insulation B.4.4.3 N/A Short circuit of functional insulation on coated No coated printed boards. printed boards B.4.5 Evaluated in certified Switching Р Short-circuit and interruption of electrodes in tubes and semiconductors Power Supply B.4.6 Short circuit or disconnection of passive Evaluated in certified Switching Ρ components Power Supply B.4.7 Continuous operation of components The equipment is continuous N/A operating type and no such components intended for short time operation or intermittent operation During and after a single fault Ρ B.4.8 Compliance during and after single fault conditions condition, a class 1 or class 2 energy sources did not become a class 3 energy source. For a class 3 energy source, during and after a single fault condition, at least one safeguard continued to comply with the relevant safeguard requirements. B.4.9 Ultracapacitor was considered. Р Battery charging and discharging under single fault conditions See Annex M **UV RADIATION** С N/A C.1 Protection of materials in equipment from UV radiation N/A C.1.2 No such UV RADIATION N/A Requirements provided within the equipment. C.1.3 Test method N/A C.2 UV light conditioning test N/A C.2.1 N/A Test apparatus: C.2.2 N/A Mounting of test samples C.2.3 N/A Carbon-arc light-exposure test C.2.4 Xenon-arc light-exposure test N/A D **TEST GENERATORS** N/A **D.1** Impulse test generators N/A

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ADVER	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
D.2	Antenna interface test generator	A PRIST	N/A
D.3	Electronic pulse generator		N/A
ESPLATO	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
2	Maximum non-clipped output power (W)		
PISPISING C	Rated load impedance (Ω)	ANSPESSO ANSPESSO	_
AL	Open-circuit output voltage (V)		_
SPLAY	Instructional safeguard	ISPLAY CA ISPLAY	
E.2	Audio amplifier normal operating conditions	ADVER'S ADVER'S	N/A
. ч	Audio signal source type		
SPLSING	Audio output power (W)	DISPLANCE DISPLANCE	_
AD.	Audio output voltage (V)		
SPLAY6	Rated load impedance (Ω)	eptal contractions	
ADVERTION	Requirements for temperature measurement	ADVERTO ADVERTO	N/A
E.3	Audio amplifier abnormal operating conditions		N/A
Fosser	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
- Statistic	Language	English version provided. (Version in other language will be provided when submitted for national approval)	
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are compliance with IEC 60027-1	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphic symbols are compliance with IEC 60417 or ISO 3864-2 or ISO 7000	P
F.3	Equipment markings	ADVER!	Р
F.3.1	Equipment marking locations	Equipment marking is located on its exterior surface and is readily visible	Р
F.3.2	Equipment identification markings	See the following details.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains	A Parton A Parton	Р

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of the supply voltage	~	Р
F.3.3.4	Rated voltage	See copy of marking plate	Р
F.3.3.5	Rated frequency	See copy of marking plate	Р
F.3.3.6	Rated current or rated power	See copy of marking plate	Р
F.3.3.7	Equipment with multiple supply connections	No multiple supply connections	N/A
F.3.4	Voltage setting device	No voltage setting device	N/A
F.3.5	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet and socket-outlet	N/A
F.3.5.2	Switch position identification marking	The IEC 60417-5007 and IEC 60417-5008 (I and 0) are marked on the power switch.	Р
F.3.5.3	Replacement fuse identification and rating markings	Evaluated in the test report of Switching Power Supply	Р
	Instructional safeguards for neutral fuse		N/A
F.3.5.4	Replacement battery identification marking	No such battery on the equipment	N/A
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location	DSPLANC DSPLANC	Р
F.3.6	Equipment markings related to equipment classification	See below.	Р
F.3.6.1	Class I equipment	PARTSING PRESSING	Р
F.3.6.1.1	Protective earthing conductor terminal	Marked on certified AC inlet	Р
F.3.6.1.2	Protective bonding conductor terminals	PLAY CAN PLAY	N/A
F.3.6.2	Equipment class marking	Class I equipment	N/A
F.3.6.3	Functional earthing terminal marking	Class I equipment	N/A
F.3.7	Equipment IP rating marking	IPX0	Р
F.3.8	External power supply output marking	Not external power supply.	N/A
F.3.9	Durability, legibility and permanence of marking	The marking is durable and legible, and can be easily discernible under normal lighting conditions.	Р

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ADVE	EC 62368-1	POAR POAR	
Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	P
ADVERTISING	and a service of the	After each test, the marking remained legible.	3
F.4	Instructions	er alle	Р
OISPLA'S	a) Information prior to installation and initial use	Contained in user manual	Р
POAR	b) Equipment for use in locations where children not likely to be present	- we all we	N/A
ROVERISING	c) Instructions for installation and interconnection	Relevant safety caution texts and installation instruction are available.	P
ASPLAY ALERISTIC	d) Equipment intended for use only in restricted access area	alsolar alsolar	N/A
A	e) Equipment intended to be fastened in place		Р
SPLAY	f) Instructions for audio equipment terminals	SPLAY CA SPLAY	N/A
ADVERING	g) Protective earthing used as a safeguard	ADVERING ADVERING	Р
ISPLAY C	h) Protective conductor current exceeding ES2 limits	Not exceed ES2.	N/A
ADVERTION	i) Graphic symbols used on equipment	ADVER'	Р
SPLAY C	j) Permanently connected equipment not provided with all-pole mains switch	SPLAY COLOSPLAY	N/A
ADVER	k) Replaceable components or modules providing safeguard function	- row	N/A
SPLANC	I) Equipment containing insulating liquid	SPLAY CA SPLAY	N/A
ADVERTO	m) Installation instructions for outdoor equipment	ADIER"	N/A
F.5	Instructional safeguards		Р
G	COMPONENTS	Stand Strand	Р
G.1	Switches		Р
G.1.1	General	Approved power switch used. (See appended table 4.1.2)	Р
G.1.2	Ratings, endurance, spacing, maximum load		Р
G.1.3	Test method and compliance	SPLAT STATISTICS	N/A

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ADVER	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.2	Relays	A Statistics	Р
G.2.1	Requirements	Evaluated in certified Switching Power Supply	Р
G.2.2	Overload test	Perising Perising	N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance	Shearpan Shearpan	N/A
G.3	Protective devices		Р
G.3.1	Thermal cut-offs	No thermal cut-offs used	N/A
AD VERY	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	- ROME ROME	N/A
ADVERTISING	Thermal cut-outs tested as part of the equipment as indicated in c)	State La State	N/A
G.3.1.2	Test method and compliance	AL	N/A
G.3.2	Thermal links	DISPLANC DISPLAN	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	No Thermal links	N/A
DISPLATION OF	b) Thermal links tested as part of the equipment	DISPLATIC DISPLATION	N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistors	N/A
G.3.4	Overcurrent protection devices	Fuse used on the approved Switching Power Supply	Р
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	asphy Chi asphy	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended table B.4)	N/A
G.4	Connectors		Р
G.4.1	Spacings	The AC inlet complied with IEC 60320-1.	Р
G.4.2	Mains connector configuration	The AC inlet complied with IEC 60320-1.	Р
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	No misconnection likely.	Р
G.5	Wound components		Р
G.5.1	Wire insulation in wound components	Evaluated in certified Switching Power Supply	Р
G.5.1.2	Protection against mechanical stress	Evaluated in certified Switching Power Supply	Р

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ADVER	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.2	Endurance test	A CARDON CONTRACTOR	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	DSPLATE DSPLAT	N/A
ADVER	Test time (days per cycle):	C POLI	
-oLAY	Test temperature (°C)	Ale Ale alt	
G.5.2.3	Wound components supplied from the mains	a Directo	N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers	DISPLANC DISPLAN	Р
G.5.3.1	Compliance method	Evaluated in certified Switching Power Supply	Р
ADVERTISING	Position	Evaluated in certified Switching Power Supply	0
SPLAY SING	Method of protection	Evaluated in certified Switching Power Supply	Р
G.5.3.2	Insulation	ADVI ADVI	Р
DISPLAY	Protection from displacement of windings	Evaluated in certified Switching Power Supply	
G.5.3.3	Transformer overload tests	Evaluated in certified Switching Power Supply	Р
G.5.3.3.1	Test conditions	Evaluated in certified Switching Power Supply	Р
G.5.3.3.2	Winding temperatures	Evaluated in certified Switching Power Supply	Р
G.5.3.3.3	Winding temperatures – alternative test method	a pover. Applet.	N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General	DSPLSIC DSPLSIC	N/A
AV.	FIW wire nominal diameter		
G.5.3.4.2	Transformers with basic insulation only	SPLAY SPLAY	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	BERLAY CA BERLAY	N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test	SPLAY CAN SPLAY	N/A
G.5.3.4.7	Routine test	Poletic Content	N/A
G.5.4	Motors	DC fan used for internal power	Р

IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Р G.5.4.1 **General requirements** Building-in equipment, shall evaluated in end system G.5.4.2 Motor overload test conditions N/A G.5.4.3 N/A Running overload test G.5.4.4.2 N/A Locked-rotor overload test Test duration (days) G.5.4.5 Running overload test for DC motors N/A G.5.4.5.2 Tested in the unit N/A N/A G.5.4.5.3 Alternative method G.5.4.6 Locked-rotor overload test for DC motors N/A N/A G.5.4.6.2 Tested in the unit Maximum Temperature: N/A G.5.4.6.3 Alternative method N/A G.5.4.7 Motors with capacitors N/A G.5.4.8 N/A Three-phase motors G.5.4.9 N/A Series motors Operating voltage G.6 Wire Insulation Ρ Ρ G.6.1 General Approved lead wire used. Evaluated in certified Switching Power Supply G.6.2 Enamelled winding wire insulation N/A G.7 Mains supply cords N/A No mains cord provided. G.7.1 General requirements N/A Туре..... G.7.2 Cross sectional area (mm² or AWG).....: N/A N/A G.7.3 Cord anchorages and strain relief for nondetachable power supply cords G.7.3.2 Cord strain relief N/A G.7.3.2.1 N/A Requirements Strain relief test force (N): N/A G.7.3.2.2 Strain relief mechanism failure N/A G.7.3.2.3 N/A Cord sheath or jacket position, distance (mm).....: G.7.3.2.4 Strain relief and cord anchorage material N/A G.7.4 N/A Cord Entry G.7.5 Non-detachable cord bend protection N/A

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ADVERTIN	EC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.5.1	Requirements	Darlan Parking Parking	N/A
G.7.5.2	Test method and compliance		N/A
DVERTSING	Overall diameter or minor overall dimension, <i>D</i> (mm):	- PSTAN - PSTAN	
	Radius of curvature after test (mm)		
G.7.6	Supply wiring space	DSPLANC DSPLAN	N/A
G.7.6.1	General requirements	Pole. Pole	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	DEPTSIVE DEPTSIV	N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors	CPLAY CALL CPLAY	Р
G.8.1	General requirements	Evaluated in certified Switching Power Supply	Р
G.8.2	Safeguards against fire	SPLAY CALL SPLAY	N/A
G.8.2.1	General	ADVERTO ADVERTO	N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test	DISPLATIC DISPLATION	N/A
G.9	Integrated circuit (IC) current limiters	C ROW	N/A
G.9.1	Requirements		N/A
DVERTISIN'	IC limiter output current (max. 5A)	CUERTSIN OVERTSIN	
	Manufacturers' defined drift		
G.9.2	Test Program	SPLA'S STAN	N/A
G.9.3	Compliance	ADVA. ADVA.	N/A
G.10	Resistors		N/A
G.10.1	General	Distance Distance	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	SPLAY CALL SPLAY	N/A
G.10.4	Voltage surge test	ADVERTO ADVERTO	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	OSPLA'S	N/A
G.11	Capacitors and RC units	C PORT	P
G.11.1	General requirements	Evaluated in certified Switching Power Supply	Р
G.11.2	Conditioning of capacitors and RC units	C Port	N/A
G.11.3	Rules for selecting capacitors	YAL TA YAL	N/A
G.12	Optocouplers	A A A A A A A A A A A A A A A A A A A	Р

IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Р Optocouplers comply with IEC 60747-5-5 with Evaluated in certified Switching specifics Power Supply Evaluated in certified Switching Type test voltage Vini,a: Power Supply Routine test voltage, Vini, b Evaluated in certified Switching Power Supply G.13 **Printed boards** Р Р G.13.1 General requirements See appended table 4.1.2 G.13.2 Р Uncoated printed boards G.13.3 Coated printed boards N/A G.13.4 Insulation between conductors on the same inner N/A surface G.13.5 Insulation between conductors on different surfaces N/A N/A Distance through insulation Number of insulation layers (pcs): G.13.6 Tests on coated printed boards N/A G.13.6.1 Sample preparation and preliminary inspection N/A G.13.6.2 Test method and compliance N/A G.14 Coating on components terminals N/A G.14.1 Requirements: No coating on component N/A terminals considered to affect creepage or clearances. G.15 Pressurized liquid filled components N/A G.15.1 Requirements No such device provided within N/A the equipment. G.15.2 N/A Test methods and compliance G.15.2.1 Hydrostatic pressure test N/A G.15.2.2 N/A Creep resistance test G.15.2.3 Tubing and fittings compatibility test N/A G.15.2.4 Vibration test N/A G.15.2.5 Thermal cycling test N/A G.15.2.6 Force test N/A G.15.3 Compliance N/A G.16 IC including capacitor discharge function (ICX) Ρ G.16.1 Condition for fault tested is not required Evaluated in certified Switching Р Power Supply ICX with associated circuitry tested in equipment N/A ICX tested separately N/A

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ADVERTIN	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.16.2	Tests	Charles Charles	N/A
TAX.	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:		-
ADVERTISING	Mains voltage that impulses to be superimposed on	C. C. C.	-
DISPLAY	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	DISPLAY CITY DISPLAY	G
G.16.3	Capacitor discharge test	- Mo.	N/A
H	CRITERIA FOR TELEPHONE RINGING SIGNALS	TAX COLO TAX	N/A
H.1	General	DVERTISING DVERTISING	N/A
H.2	Method A		N/A
H.3	Method B	ISPLAY	N/A
H.3.1	Ringing signal	No telephone ringing signal.	N/A
H.3.1.1	Frequency (Hz)		4
H.3.1.2	Voltage (V)	S ALST LONG	_
H.3.1.3	Cadence; time (s) and voltage (V)		
H.3.1.4	Single fault current (mA):	SPLAY CA SPLAY	
H.3.2	Tripping device and monitoring voltage	ADVERT ADVERT	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	SPLAY ENLY	N/A
H.3.2.2	Tripping device	Poster.	N/A
H.3.2.3	Monitoring voltage (V)		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU	T INTERLEAVED INSULATION	Р
J.1	General		Р
ADVERTISING	Winding wire insulation:	Certified triple insulation wire used. Evaluated in certified Switching Power Supply	
, R	Solid round winding wire, diameter (mm)		N/A
ADVERTISING	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²)	C. P. Strand C. P. Strand	N/A
J.2/J.3	Tests and Manufacturing		
К	SAFETY INTERLOCKS	DVERTSING DVERTSIN	N/A
K.1	General requirements		N/A
DVERISING	Instructional safeguard: No safety interlock provided within the equipment.		
K.2	Components of safety interlock safeguard mecha	anism	N/A
K.3	Inadvertent change of operating mode	SPLAY SISPLAY	N/A

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Clause F	Requirement + Test	Result - Remark	Verdic	
K4			v or ulo	
	Interlock safeguard override			
K.5 F	Fail-safe			
K.5.1 L	Inder single fault condition	SPLAY CI SPLAY	N/A	
K.6 N	lechanically operated safety interlocks	ADVER	N/A	
K.6.1 E	Endurance requirement		N/A	
К.6.2 Т	est method and compliance	ISPLANG DISPLANG	N/A	
K.7 lı	nterlock circuit isolation		N/A	
K.7.1 S	Separation distance for contact gaps & interlock ircuit elements	DISPLAY CITY DISPLAY	N/A	
lr fo	n circuit connected to mains, separation distance or contact gaps (mm)	and the second second	N/A	
lr fo	n circuit isolated from mains, separation distance or contact gaps (mm)	Casting Casting	N/A	
E	Electric strength test before and after the test of	BRIAN EAL BRIAN	N/A	
K.7.2 C	Overlo <mark>ad</mark> test, Current (A)	Pover Pover	N/A	
K.7.3 E	Endurance test		N/A	
K.7.4 E	Electric strength test	a Mistione Alerton	N/A	
L C	DISCONNECT DEVICES		Р	
L.1 G	Seneral requirements	The AC appliance coupler used as disconnect device	Р	
L.2 P	Permanently connected equipment		N/A	
L.3 P	Parts that remain energized	No such parts when coupler used.	N/A	
L.4 S	Single-phase equipment	Disconnect device disconnects all poles simultaneously.	Р	
L.5 T	Three-phase equipment	Please Please	N/A	
L.6 S	Switches as disconnect devices		N/A	
L.7 P	Plugs as disconnect devices	SPLAY CI SPLAY	N/A	
L.8 N	Aultiple power sources	ADVER'	N/A	
li	nstructional safeguard		N/A	
M	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	Р	
M.1 G	Seneral requirements		Р	
M.2 S	Safety of batteries and their cells	ALON CALL OLAY	N/A	
M.2.1 E	Batteries and their cells comply with relevant IEC	E Starter	N/A	
M.3 P	Protection circuits for batteries provided within he equipment	RTC battery was considered, see Annex M.3.	Р	

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ADVEN	IEC 62368-1	Nover.	
Clause	Requirement + Test	Result - Remark	Verdict
M.3.1	Requirements		Р
M.3.2	Test method		Р
NERTISING	Overcharging of a rechargeable battery	(See appended Tables Annex M.3)	Р
	Excessive discharging		N/A
NOVER ISING	Unintentional charging of a non-rechargeable battery	Barrie Charles Barrie	N/A
	Reverse charging of a rechargeable battery		Р
M.3.3	Compliance	(See appended Tables Annex M.3)	P
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	N/A
M.4.1	General	- Oleren - Oleren	N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements	DISPLATIC DISPLATION	N/A
M.4.2.2	Compliance	C BOVE	N/A
M.4.3	Fire enclosure		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	CP CP	N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	Les Les	N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test	Properties of the second second	N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying	OSPLAY SA SPLAY	N/A
M.5.1	Requirement	ADVER. ADVER.	N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits	Distance Distance	N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance	rolation rolation	N/A
M.7	Risk of explosion from lead acid and NiCd batter	ries	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
SPLAY SING	Calculated hydrogen generation rate	OSPIA STA	N/A
M.7.2	Test method and compliance	ADVICE ADVICE	N/A
K.	Minimum air flow rate, Q (m ³ /h)		N/A
M.7.3	Ventilation tests	DIST SING	N/A

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ADVERING	IEC 62368-1	ROVER ROVER	
Clause	Requirement + Test	Result - Remark	Verdict
M.7.3.1	General	A CONTRACT AND	N/A
M.7.3.2	Ventilation test – alternative 1		N/A
SPLAY	Hydrogen gas concentration (%):	SPLAY CA SPLAY	N/A
M.7.3.3	Ventilation test – alternative 2	ADVER. ADVER.	N/A
. 7	Obtained hydrogen generation rate		N/A
M.7.3.4	Ventilation test – alternative 3	Distriction Distriction	N/A
AD -	Hydrogen gas concentration (%)	- M	N/A
M.7.4	Marking	Mag Mag	N/A
M.8	Protection against internal ignition from external with aqueous electrolyte	spark sources of batteries	N/A
M.8.1	General	PLAY CIN PLAY	N/A
M.8.2	Test method	ADVERTON ADVERTON	N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s)	JSPLANG SING	
M.8.2.3	Correction factors	L POUL	
M.8.2.4	Calculation of distance <i>d</i> (mm):	NAL COLONAL	
M.9	Preventing electrolyte spillage	· Dietan	N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage	SPLANC SPLAN	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	F ROW	N/A
DISPLATION OF	Instructional safeguard	SPLANC SPLANC	N/A
N	ELECTROCHEMICAL POTENTIALS	C ADVIC	Р
Polynamics	Material(s) used	The internal metal enclosure is made of mild steel, screw spring washer are made of Ni on steel. Less than 0.6V	
0	MEASUREMENT OF CREEPAGE DISTANCES AN	ID CLEARANCES	Р
ADVERTIS	Value of X (mm)	Complied.	
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	S	N/A
P.1	General	DSPLANC DSPLAN	N/A
P.2	Safeguards against entry or consequences of en	try of a foreign object	N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object	Building-in equipment, shall evaluated in final system	N/A
KA	Location and Dimensions (mm)	Tau III III III	

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
P.2.3	Safeguards against the consequences of entry of a foreign object	- Participanting - Constitution	N/A
P.2.3.1	Safeguard requirements	ALC ALC ALC ALC	N/A
ADVERTISH	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	L'AND L'AND	N/A
DISPLAY	Transportable equipment with metalized plastic parts	DSPLAY CAN DSPLAY	N/A
P.2.3.2	Consequence of entry test	C.W.	N/A
P.3	Safeguards against spillage of internal liquids	alay China alay	N/A
P.3.1	General	- DEPTS	N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards	SPLANC SPLAN	N/A
P.3.4	Compliance	how how	N/A
P.4	Metallized coatings and adhesives securing part	s	N/A
P.4.1	General	DSPL-10	N/A
P.4.2	Tests		N/A
SPLAX6	Conditioning, Tc (°C)	EPLAY EPLAY	
ADVERING	Duration (weeks):	ADVERTON ADVERTON	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	OSPLANC OSPLAN	Р
Q.1.1	Requirements	C ROM	P
NA IS	a) Inherently limited output	(See appended table Q.1)	Р
Plation	b) Impedance limited output	- Charles - Charles	N/A
	c) Regulating network limited output	(See appended table Q.1)	Р
SPLANC	d) Overcurrent protective device limited output	SPLA'S SPLAY	N/A
ADVERM	e) IC current limiter complying with G.9	North	N/A
Q.1.2	Test method and compliance:	(See appended table Q.1)	Р
ADVERTSING	Current rating of overcurrent protective device (A)	urrent rating of overcurrent protective device (A)	
Q.2	Test for external circuits – paired conductor cable	DERLAY CAL DERLAY	N/A
ADVEN	Maximum output current (A)	Love Conce	N/A
ka.	Current limiting method		4
R	LIMITED SHORT CIRCUIT TEST	Please Please	N/A
R.1	General	F AF	N/A
R.2	Test setup	asplat CT	N/A

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ADVE	EC 62368-1	ADVIE ADVIE	
Clause	Requirement + Test	Result - Remark	Verdict
PLERTISING	Overcurrent protective device for test:	a Rensie	_
R.3	Test method		N/A
SPLAY	Cord/cable used for test:	SPLATE SPLAT	
R.4	Compliance	ADVAN	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barr where the steady state power does not exceed 4 (ier materials of equipment 000 W	N/A
k.	Samples, material		
PERTSING	Wall thickness (mm):	A A Standard A A A A A A A A A A A A A A A A A A A	_
p P Y	Conditioning (°C)		
SPLAY C	Test flame according to IEC 60695-11-5 with conditions as set out	PISTAL DISTAN	N/A
	- Material not consumed completely		N/A
SPLAY	- Material extinguishes within 30s	SPLAY SPLAY	N/A
ADVER	- No burning of layer or wrapping tissue	ADVER ADVER	N/A
S.2	Flammability test for fire enclosure and fire barrie	er integrity	N/A
PERTSING	Samples, material	Statistics	-
A.	Wall thickness (mm)		
SPLANG	Conditioning (°C)	SPLAY STATISTICS	
S.3	Flammability test for the bottom of a fire enclosur	e of the second	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance	SPLANC STREET	N/A
AON	Mounting of samples		_
EPLAY G	Wall thickness (mm)	PLAY CALL SPLAY	
S.4	Flammability classification of materials	ADVERTO ADVERTO	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	ENTRY ENLERENCE	N/A
AL	Samples, material		<
SPLAY O	Wall thickness (mm)	SPLAY CITY SPLAY	
ADVERTIS	Conditioning (°C)	Revenue - Revenue	
T	MECHANICAL STRENGTH TESTS		Р
T.1	General	DISPLANCE DISPLANCE	Р

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Clause	Deminement Test	Deput Demark	Verdiet
Clause	Requirement + Test	Result - Remark	Verdict
T.2	Steady force test, 10 N:	The equipment is a building-in type, consider on the front panel side (See appended table T.2, T.3, T.4, T.5). Other sides should be evaluated in final system.	P
T.3	Steady force test, 30 N:	The equipment is a building-in type, consider on the front panel side (See appended table T.2, T.3, T.4, T.5). Other sides should be evaluated in final system.	P
Т.4	Steady force test, 100 N	ADVC ADVC	N/A
T.5	Steady force test, 250 N	The equipment is a building-in type, consider on the front panel side (See appended table T.2, T.3, T.4, T.5). Other sides should be evaluated in final system.	P
T.6	Enclosure impact test	The equipment is a building-in type, consider on the front panel side (See appended table T.6, T.9). Other sides should be evaluated in final system.	P
1	Fall test		Р
PLERTSING A	Swing test	States of the st	N/A
Т.7	Drop test		N/A
T.8	Stress relief test:	SPLANC SPLAN	N/A
Т.9	Glass Impact Test	1J, 204mm. All safeguards remain effective.	Р
T.10	Glass fragmentation test	Stand	N/A
ADVE	Number of particles counted	- 100°.	N/A
T.11	Test for telescoping or rod antennas	MAIS CAL	N/A
ADVERTS!	Torque value (Nm)	A DURING DURING	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		
U.1	General	ADVERTON ADVERTON	N/A
	Instructional safeguard :	all the second sec	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		
U.3	Protective screen	C for	N/A
V	DETERMINATION OF ACCESSIBLE PARTS	MAL CAL	Р
V.1	Accessible parts of equipment	Distration Distriction	Р

ADVERTU	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
V.1.1	General	The customer defines that the front panel of the final system is accessible to ordinary personnel. However, the equipment is a building-in type and evaluation is also to be made during the final system approval.	P
V.1.2	Surfaces and openings tested with jointed test probes	C. S.	Р
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	A Pression Pression	N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire	SPLAY CAN SPLAY	N/A
V.2	Accessible part criterion	ADVERTON ADVERTON	Р
×	ALTERNATIVE METHOD FOR DETERMINING CLE CIRCUITS CONNECTED TO AN AC MAINS NOT E RMS)	ARANCES FOR INSULATION IN XCEEDING 420 V PEAK (300 V	N/A
	Clearance		N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General	ADVERT	N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion	Series Series	N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	DISPLAY CI DISPLAY	N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	SPLAY SILVER	N/A
Y.3.4	Test procedure	ADVERIDE ADVERIDE	N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets	ISPLA'S	N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests	MAY KAN MAN	N/A
Y.4.3	Tensile strength and elongation tests	Puterish Puterish	N/A
	Alternative test methods		N/A
Y.4.4	Compression test	SPLAY STAN	N/A
Y.4.5	Oil res <mark>istance</mark>	ADVER ADVER	N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclos	sure	N/A

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IEC 62368-1 Requirement + Test Result - Remark Clause Verdict Y.5.1 General N/A Y.5.2 Protection from moisture N/A Relevant tests of IEC 60529 or Y.5.3: N/A Y.5.3 N/A Water spray test Y.5.4 Protection from plants and vermin N/A Y.5.5 Protection from excessive dust N/A Y.5.5.1 General N/A Y.5.5.2 N/A **IP5X** equipment Y.5.5.3 IP6X equipment N/A Y.6 Mechanical strength of enclosures N/A Y.6.1 General N/A Y.6.2 N/A Impact test

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Clause	Requirement + Test			Res	ult - Remark		Verdict
DISPLATION	DISPLATE	DISPL	SING		SPLA G	DISPLA	6
5.2	TABLE: Classificati	on of electrical er	nergy sou	rces	40.	ADV.	Р
Supply	Location (e.g.	Test conditions			Parameters	SPLAY	ES
Voltage	designation)	A C Rovers	U (V)	l (mA)	Type ¹⁾	Additional Info ²⁾	
264Vac/60H	z USB1&USB2	Normal	5.24Vdc		SS	DC	ES1
	(J50&J51, on mainboard1: 3399F) output + to -	Abnormal Output overload	5.24Vdc		SS	DC	ES1
		Single fault:	0Vdc		SS	DC	ES1
	ALE BORN	(Refer to fault condition on table B.4, unit shutdown)			RIAL CO	C Porterio	
264Vac/60H	z USB3 (J5, on mainboard2: BH- 4K02-EA) output + to -	Normal	5.06Vdc	10	SS	DC	ES1
		Abnormal Output overload	5.06Vdc		SS	DC	ES1
	ALE PORTAN	Single fault: (Refer to fault condition on table B.4, unit shutdown)	0Vdc		SS	DC	ES1
264Vac/60H	z LED Backlight (JP3 pin + to -)	Normal	63.2Vdc	-	SS	DC	ES2
Supplementa	ary information: SC=S	Short Circuit					-

2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

3) Power board other parts considered in certified Switching Power Supply.

4) Secondary terminals (USB1&USB2, USB3, HDMI, DP) "-" and earthing are same potential.

5.4.1.8	TABLE: Working volta	age measureme	nt	All CA	N/A
Location	ADIERTIST	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
	All and a second				
PERISIN	· DUERTISH				
Supplemer	ntary information:	C. C.	a late		
SPLAY	SPLANC L	SPLA	46	SPLAY C	SPLANG LA

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplas	stics	N/A
Method		ISO 306 / B50	_

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Clause	Requirement + Test	Result - Remark	Verdict

Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)
Supplementary information:			

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter (mm) ≤ 2 mm							
Object/Part No./Material Manufacturer/trademark Thi				(mm)	Test temperature (°C)	Imp diame	ression ter (mm)
Supplementary information:							

5.4.2, 5.4.3 TABLE: N	/linimum Cl	earances/	Creepage	e distance				Р
Clearance (cl) and	Up	Urms	Freq 1)	Required	cl	E.S. ²⁾	Required	cr
creepage distance (cr) at/of/between:	(V)	(V)	(KHz)	cl (mm)	(mm)	(V)	cr (mm)	(mm)
Line/Neutral to Earth on power supply (model RSP-320-24) terminal block (BI)	420	240	60	1.5	11.0		2.4	11.0
Line to Neutral on power supply (model RSP-320-24) terminal block (BI)	420	240	60	1.5	9.0		2.4	9.0
Line/Neutral on power supply (model RSP-320-24) to accessible metal enclosure (BI)	420	240	60	1.5	4.0		2.4	6.4
Live part of power supply (model RSP- 320-24) to secondary wire (RI)	420	240	60	3.0	12.0		4.8	12.0
Line/Neutral to Earth on power supply (model LRS-50-12) terminal block (BI)	420	240	60	1.5	8.0		2.4	8.0

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Clause	Requirement + Test		Result - Remark	Verdict

Line to Neutral on power supply (model LRS-50-12) terminal block (Bl)	420	240	60	1.5	7.0	 2.4	7.0
Line/Neutral on power supply (model LRS-50-12) to accessible metal enclosure (BI)	420	240	60	1.5	3.8	 2.4	6.0
Live part of power supply (model LRS- 50-12) to secondary wire (RI)	420	240	60	3.0	10.0	 4.8	10.0
Line/Neutral on AC inlet to accessible metal enclosure (BI)	420	240	60	1.5	14.2	 2.4	14.2
Supplementary informa	ition:						

1) Only for frequency above 30 kHz

2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

3) (SI) = Supplementary Insulation, (BI)= Basic Insulation, (RI) = Reinforced Insulation

4) Power board considered in certified Switching Power Supply report.

5.4.4.2	TABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)		
Supplement	Supplementary information:							
Power board	d considered in cert	ified Switching Power Sup	oply report.					

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						
Insulation m	aterial	Ep	Frequency (kHz)	KR	Thickness <i>d</i> (mm)	Insulation	V⊵w (Vpk)
Supplementary information:							
Considered	in certified Switchi	ng Power Su	pply.				

5.4.9	TABLE: Electric strength tests				Р
Test voltage	applied between:	Voltage shape	Test voltage (V)	Bre	eakdown
		(Surge, Impulse, AC, DC, etc.)		Y	′es / No

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L to N (Fuse disconnected) (FI)	DC	2500	No
Primary to Earth (Metal Enclosure) (BI)	DC	2500	No
Primary to secondary terminals (RI)	DC	4000	No

Supplementary information:

Note 1: Electric strength tests are also conducted after sub-clause 5.4.8 for all sources.

Note 2: (FI) = Functional Insulation, (BI) = Basic Insulation, (RI) = Reinforced Insulation.

Note 3: All testing Including after Humidity required of clause 5.4.8, there are including unit, transformer and all Power board: Considered in certified Switching Power Supply.

5.5.2.2	TABLE:	BLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	E	S Class
L to N		264	Normal	On	12Vpk		ES1
L to N		264	R2 (on power supply model: LRS-50-12), OC	On	28Vpk		ES1
L to N		264	R1 (on power supply model: RSP-320-24), OC	On	20Vpk		ES1
Supplemen	tary inforn	nation:			1		

X-capacitors installed for testing: see certified Switching Power Supply report.

[x] bleeding resistor rating: see certified Switching Power Supply report.

[] ICX:

1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6	TABLE: Resistance of protective conductors and terminations					Р
Location		Test current	Duration	Voltage drop	Re	sistance
		(A)	(min)	(V)		(Ω)
PE pin of AC Inlet to the farthest part of metal enclosure		40	2	0.60	(0.015
Supplement	ary information:					

5.7.4	4 TABLE: Unearthed accessible parts					Р	
Location		Operating and fault conditions	Supply Voltage (V)	F Voltage (Vrms or V _{pk})	Parameters Current (Arms or Apk)	Freq. (Hz)	ES class

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*		 	 	
Supplementary infor	rmation:			
*: See appended ta	ble 5.2			

5.7.5	TABLE: Earthed accessi	ble conductive part	ble conductive part			
Supply voltage (V):		264Vac/60Hz			—	
Phase(s):		[x] Single Phase; [] Three	Phase: [] Delta [] Wye			
Power Distribution System [x] T		[x] TN []TT [] IT				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Co	omment	
Earthed acc	essible parts	1 (earth opened)	Normal: 3.64mApeak			
			Reverse: 3.64mApeak			
Supplement	ary Information:					

5.8	TABLE: Backfeed safeguard in battery backed up supplies					N/A	
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Supplement	ary inforn	nation:					

6.2.2 1	ABLE: Power source	circuit classificat	ions			Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
All internal circuits	Normal					PS3 (Declared)
USB1(J50, on mainboard1:	Worst-case load fault	4.86	1.3	6.32	3	PS1
3399F) output	U2701 Pin 5 to Pin 1, SC	4.62	1.5	6.93	3	PS1
USB2(J51, on mainboard1:	Worst-case load fault	4.86	1.3	6.32	3	PS1
3399F) output	U9625 Pin 5 to Pin 1, SC	4.62	1.5	6.93	3	PS1
HDMI1 (on mainboard1:	Worst-case load fault	0	0	0	3	PS1

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			r	-	-	r	
3399F) output							
HDMI2 (on mainboard1: 3399F) output	Worst-case load fault	0	0	0	3	PS1	
USB3(J5, on mainboard2:	Worst-case load fault	4.31	2.2	9.48	3	PS1	
BH-4K02-EA) output	U12 Pin 5 to Pin 6, SC	0	0	0	3	PS1	
HDMI(on mainboard2: BH-4K02-EA) output	Worst-case load fault	0	0	0	3	PS1	
DP(on mainboard2: BH-4K02-EA) output 0 0 0 3 PS1							
Supplementary	Supplementary information:						
Abbreviation: S	C= short circuit; OC=	open circuit					

6.2.3.1	TABLE: Determi	nation of Arcing PIS				Р
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arc Y	ing PIS? es / No
All internal circuits/com	ponents				Yes (decl	aration)
Supplement	ary 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.

* An Arcing PIS is considered to exist in primary circuits and secondary circuits.

6.2.3.2	TABLE: Determin	nation of resistive PIS			Р
Location		Operating and fault condition	Dissipate power (W)	Arc Y	cing PIS? ′es / No
All internal circuits/com	ponents	-		Yes (dec	claration)
Supplement	ary information:				

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

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

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of

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the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High pre	ssure lamp				N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Par be	ticle found yond 1 m ⁄ es / No
Supplement	ary information:					

9.6	TABLE	BLE: Temperature measurements for wireless power transmitters					5	N/A		
Supply voltage (V):										
Max. transm	nit power	of transmit	tter (W)	:						
		w/o rece direct o	eiver and contact	witł d	h rece irect o	eiver and contact	with recei distance	ver and at of 2 mm	with rece distance	iver and at e of 5 mm
Foreign o	bjects	Object (°C)	Ambient (°C)	Obj (∘(ject C)	Ambient (°C)	Object (ºC)	Ambient (°C)	Object (∘C)	Ambient (°C)
				-	-					
Supplement	ary inforr	nation:								

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5.4.1.4,	TABLE: Temperature measurem	ents				Р
9.3, B.1.5, B.2.6						
Supply volta	age (V):	90V/60Hz	90V/60Hz	264V/60H z	264V/60H z	
Ambient tem	perature during test <i>T</i> amb (°C) :	See below	See below	See below	See below	
Maximum m	easured temperature <i>T</i> of part/at:		Τ (°C)		Allowed 7 _{max} (°C)
At room terr	perature Shift to 45°C					
AC inlet		35.7	56.1	33.4	54.0	70
Internal prim	nary wire	34.8	55.2	34.4	55.0	105
LF1 wining	(RSP-320-24)	45.9	66.3	37.9	58.5	130
LF2 wining	(RSP-320-24)	45.0	65.4	37.3	57.9	130
LF3 wining	(RSP-320-24)	44.2	64.6	39.6	60.2	130
T1 coil (RSF	- 320-24)	53.1	73.5	55.3	75.9	110
T1 core (RS	P-320-24)	44.1	64.5	46.3	66.9	110
L100 windin	g (RSP-320-24)	50.3	70.7	52.0	72.6	130
Internal sec	ondary wire (RSP-320-24)	58.3	78.7	50.8	71.4	80
LF1 wining	(LRS-50-12)	58.1	78.5	60.8	81.4	130
T1 coil (LRS	3-50-12)	57.7	78.1	61.2	81.8	110
T1 core (LR	S-50-12)	50.7	71.1	51.0	71.6	110
L100 windin	g (LRS-50-12)	40.4	60.8	39.8	60.4	130
Internal sec	ondary wire (LRS-50-12)	39.1	59.5	39.7	60.3	80
L9 winding ((ВН-4К02-Е)	74.8	95.2	79.0	99.6	130
PCB near U	9 (BH-4K02-E)	58.2	78.6	61.0	81.6	130
L3 winding ((ВН-4К02-Е)	52.9	73.3	54.9	75.5	130
PCB near h	eat sink (BH-4K02-E)	54.5	74.9	56.6	77.2	130
EC1 body (F	3Н-4К02-Е)	48.6	69.0	50.8	71.4	105
PCB near U	1 (BH-4K02-E)	48.7	69.1	50.6	71.2	130
PCB near IC	C1 (3399F)	44.6	65.0	44.6	65.2	130
PCB near h	eat sink (3399F)	48.1	68.5	47.9	68.5	130
PCB near IC	C2 (3399F)	52.0	72.4	52.0	72.6	130
RTC battery	r (3399F)	43.4	63.8	43.5	64.1	Ref.
L2 winding ((HL-6L004)	50.9	71.3	53.3	73.9	130

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			·			
PCB near	IC1 (HL-6L004)	42.6	63.0	46.4	67.0	130
L5 winding	g (HL-6L004)	58.0	78.4	60.4	81.0	130
PCB near	IC2 (HL-6L004)	49.4	69.8	52.1	72.7	130
PCB near	D12 (HL-6L004)	66.3	86.7	68.8	89.4	130
C18 body	(HL-6L004)	56.9	77.3	59.3	79.9	105
PCB near	Q14 (HL-6L004)	52.8	73.2	55.8	76.4	130
PCB near	UC1 (SQ19_DRD_CONTROL)	54.2	74.6	56.4	77.0	130
PCB near	U6 (SQ19_DRD_CONTROL)	60.6	81.0	62.6	83.2	130
L7 winding	g (SQ19_DRD_CONTROL)	52.9	73.3	55.1	75.7	130
Ambient		24.6	45.0	24.4	45.0	
Accessible	e parts (calculated to 25⁰C)		•	•		
Motal and	loguro (front)	44.0	45.2	17 1	10.0	60

Metal enclosure (front) 44.9 45.3 47.4 48.0 60 34.7 44.6 45.2 71 Screen 35.1 Power Switch 29.5 32.5 33.1 77 29.9 Ambient 24.6 25.0 24.4 25.0 ___ Temperature T of winding: Allowed t1 (°C) Insulation t2 (°C) T (°C) R1 (Ω) R₂ (Ω) class Tmax (°C) ------------------___

Supplementary information:

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

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

Note 3: The maximum ambient temperature specified by manufacturer is 45°C. Heating test was conducted in 20-25°C ambient, all points except external accessible parts was adjusted to 45°C Tma, the points of external accessible parts was adjusted to 25°C ambient.

Note 4: Test condition:

DP mode: The unit is running three vertical bar signal on LCD display with maximum contrast and maximum brightness, USB1&USB2(on mainboard1: 3399F) port loaded with 1.0A, USB3(on mainboard2: BH-4K02-E) port loaded with 0.5A.

B.2.5		TABLE: Inpu	ut test						Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condit	ion/status
90	50	2.174		185.1				DP mo	de:
90	60	2.177		186.8				Maxim	um I load
100	50	1.928	3.0	183.9					
100	60	1.932	3.0	184.3					
240	50	0.860	3.0	180.2					

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240	60	0.865	3.0	181.2	 	
264	50	0.797		180.1	 	
264	60	0.801		181.8	 	
90	50	2.146		183.3	 	 HDMI mode:
90	60	2.150		184.2	 	 Maximum normal load
100	50	1.897	3.0	182.1	 	
100	60	1.901	3.0	183.2	 	
240	50	0.843	3.0	178.5	 	
240	60	0.846	3.0	180.8	 	
264	50	0.787		179.2	 	
264	60	0.792		180.1	 	
90	50	2.119		181.9	 	 USB mode:
90	60	2.123		183.5	 	 Maximum normal load
100	50	1.894	3.0	180.1	 	
100	60	1.898	3.0	181.5	 	
240	50	0.820	3.0	174.7	 	
240	60	0.825	3.0	176.8	 	
264	50	0.768		173.2	 	
264	60	0.771		175.3]

Supplementary information:

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

Maximum normal load: The unit is running three vertical bar signal on LCD display with maximum contrast and maximum brightness, USB1&USB2(on mainboard1: 3399F) port loaded with 1.0A, USB3(on mainboard1: BH-4K02-E) port loaded with 0.5A.

B.3, B.4	TAE	LE: Abnormal	operating a	and fault	condition t	ests		Р
Ambient temperature Tamb (°C)								
Power source for EUT: Manufacturer, model/type, outputrating :					Se	e table 4.1.2		
Component	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n
USB1(J50, o mainboard1 3399F) Outp	on : out	Overload	264Vac / 60Hz	3h52mi ns	-		Unit operated norma loaded maximum cu 1.2A, USB1 Port shu when load to 1.3A. Recoverable when fa removed, no damag hazards.	Illy, USB1 rrent is utdown ault e, no

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1					ر
					Input current(A): 0.801→0.818→0.822→0.512
					Component temperature:
					T1 coil(RSP-320-24)/74.7°C
					T1 core(RSP-320-24)/66.5°C
					T1 coil(LRS-50-12)/83.0°C
					T1 core(LRS-50-12)/72.0°C
					Ambient/45.0°C
					Metal enclosure (front)/48.2°C
					Screen/44.8°C
					Switch/33.1°C
					Ambient/25.0°C.
					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 5.24Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -:
					5.06Vdc.
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards.
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): $0.801 \rightarrow$ $0.834 \rightarrow 0.871 \rightarrow 0.514$
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rice2-EA) output if to a 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature:
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rito2-bit) output if to i. 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature: T1 coil(RSP-320-24)/75.3°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rice2-bin) output if to e. 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rite/2-2-2A) output if to a 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): $0.801 \rightarrow$ $0.834 \rightarrow 0.871 \rightarrow 0.514$ Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rice2-EX) output it to a 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): $0.801 \rightarrow$ $0.834 \rightarrow 0.871 \rightarrow 0.514$ Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C T1 core(LRS-50-12)/72.1°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rice2-bin) output into it. 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C T1 core(LRS-50-12)/72.1°C Ambient/45.0°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rite 2-2, y output it to it. 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C T1 core(LRS-50-12)/72.1°C Ambient/45.0°C Metal enclosure (front)/45.7°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rite 2-2 A) output it to a 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): $0.801 \rightarrow$ $0.834 \rightarrow 0.871 \rightarrow 0.514$ Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C T1 core(LRS-50-12)/72.1°C Ambient/45.0°C Metal enclosure (front)/45.7°C Screen/48.0°C
USB3(J5, on mainboard2: BH-4K02-E) Output	Overload	264Vac / 60Hz	4h55mi ns	 	bine-rice2-EX) output into it. 5.06Vdc. Unit operated normally, loaded maximum current is 2.2A, USB Port shutdown when load to 2.3A. Recoverable when fault removed, no damage, no hazards. Input current(A): 0.801→ 0.834→ 0.871→ 0.514 Component temperature: T1 coil(RSP-320-24)/75.3°C T1 core(RSP-320-24)/66.3°C T1 coil(LRS-50-12)/82.9°C T1 core(LRS-50-12)/72.1°C Ambient/45.0°C Metal enclosure (front)/45.7°C Screen/48.0°C Switch/47.5°C

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Clause	Requirement + Test	Result - Remark	Verdict

					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 5.24Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 5.06Vdc.
USB1(J50, on mainboard1: 3399F) Output	SC	264Vac / 60Hz	10mins	 	Unit operated normally, only USB1 shutdown. Recoverable when fault removed, no damage, no hazards.
					Touch voltage:
					USB1 (J50, on mainboard1: 3399F) output + to -: 0Vdc.
					USB2 (J51, on mainboard1: 3399F) output + to -: 5.24Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 5.06Vdc.
USB2(J51, on mainboard1: 3399F) Output	SC	264Vac / 60Hz	10mins	 	Unit operated normally, only USB2 shutdown. Recoverable when fault removed, no damage, no hazards.
					Touch voltage:
					USB1 (J50, on mainboard1: 3399F) output + to -: 5.24Vdc.
					USB2 (J51, on mainboard1: 3399F) output + to -: 0Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 5.06Vdc.
USB3(J5, on mainboard2: BH-4K02-E) Output	SC	264Vac / 60Hz	10mins	 	Unit operated normally, only USB3 shutdown. Recoverable when fault removed, no damage, no hazards.
					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 5.24Vdc.
					USB3 (J5, on mainboard2:

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Clause

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					BH-4K02-EA) output + to -: 0Vdc.
Switching Power Supply (RSP-320-24)	SC	264Vac / 60Hz	10mins	 	Unit shutdown, recoverable when fault removed, no damage, no hazards.
Output					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 0Vdc.
Switching Power Supply (LRS-50-12)	SC	264Vac / 60Hz	10mins	 	Unit shutdown, recoverable when fault removed, no damage, no hazards.
Output					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 0Vdc.
LED Backlight (JP3) pin + to metal enclosure	SC	264Vac / 60Hz	10mins	 	Unit shutdown, recoverable when fault removed, no damage, no hazards.
					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 0Vdc.
LED Backlight (JP3) pin + to USB1 pin +	SC	264Vac / 60Hz	10mins	 	Unit shutdown, recoverable when fault removed, no damage, no hazards.
					Touch voltage:
					USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
					USB3 (J5, on mainboard2: BH-4K02-EA) output + to -: 0Vdc.
LED Backlight (JP3) pin + to	SC	264Vac / 60Hz	10mins	 	Unit shutdown, recoverable when fault removed, no

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ADVERTON	ADVERIO	IEC 62368-1	AD VER IN	ADVERTION	
Clause	Requirement + Test		Result - Remark	, N	Verdict

USB2 pin +	ADVE		PONO		ADVICE	damage, <mark>no</mark> hazards.
			ka.		E.	Touch voltage:
S. S. C. S.			ADVENTISING		A DISPLANCE	USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
PSPIN'			ADVERTISING		S Starts	USB3 (J5, on mainboard2 BH-4K02-EA) output + to - 0Vdc.
LED Backlight (JP3) pin + to USB3 pin +	SC	264Vac / 60Hz	10mins	C.	- SPRAY	Unit shutdown, recoverable when fault removed, no damage, no hazards.
			k.		, N	Touch voltage:
PSPIN'S LAN			POVERTSING		POLICE SALE	USB1&USB2 (J50&J51, on mainboard1: 3399F) output + to -: 0Vdc.
Strength CI			PO VERTEINE	CI.	Display	USB3 (J5, on mainboard2 BH-4K02-EA) output + to - 0Vdc.

Supplementary information:

The room ambient temperature is 20 to 25°C.

1. After each of above test, unit can pass the dielectric strength test specified in table 5.4.9.

2. Alternate fuse was tested for each fault if the fuse is operated, the same results.

3. No ignition during and after all tests.

4. Output voltage comply with ES1 during and after all tests.

5. SC=Short Circuit; OC=Open Circuit. OL= Overload

6. Test condition: DP mode: The unit is running three vertical bar signal on LCD display with maximum contrast and maximum brightness, USB1&USB2(on mainboard1: 3399F) port loaded with 1.0A, USB3(on mainboard2: BH-4K02-E) port loaded with 0.5A.

- 7. During and after abnormal operating conditions and during single fault conditions the output voltage:

 (a) at all ES1 outlets or connectors not increase by more than 10 % of the output rated voltage under normal operating conditions, measured after 3 s of introducing a single fault condition and after 3 s of introducing abnormal operating conditions; and
 - (b) of a USB outlet or connector not increase by more than 3 V or 10 % of the output rated voltage under normal operating conditions, whichever is higher, measured after 3 seconds of introducing a single fault condition and after 3 s of introducing abnormal operating conditions.

M.3	TABLE: Protectio	TABLE: Protection circuits for batteries provided within the equipment						
ls it poss	ible to install the battery	in a reverse polarity position?:	No	_				
Equipment Specification		Charg	ing					
		Voltage (V)	Current (A)					

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ADVERTIN	ADVERT	IEC 62368-1	ADVER!	ROVERIN	
Clause	Requirement + Test		Result - Remark	Verdict	

ADV	ADV		5	POA.		G	$\mathcal{O}_{\mathcal{A}_{\mathcal{L}}}$			ADV	
JAY.		NAL CON		MAIR	Battery	spec	cificati	on			AY CA
OVERTISIN ^O		Non-rechargeable batteries			Rechargeable batteries					151M	
Manufacturer/type		Discharging Unintentional		intentional	Charging			Discharging current (A) c h cu		Reverse	
		current (A)	charging current (A)		Voltage (V) Current (A)		charging current (A)				
- ADV.	- ADV		C	PO.4.	-		\mathcal{O}^{\times}	-			-
Note: The tes	sts of M.3.2 a	re applicable o	nly w	/hen above	appropria	ate da	ata is	not ava	ilable.	102	M.
Specified bat	tery tempera	ature (ºC)		<u></u>		:	DID. TID	<i>V</i>		P R LER	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (∘C)	Cu (rrent A)	Voltag (V)	e	Obse	rvation
RTC battery (J2, on mainboard1: 3399F)	Normal	Charging		10mins	cnu	0.0	1mA	-		NL, NS	, NE, NF.
RTC battery (J2, on mainboard1: 3399F)	D9302 pin 3-1, SC	Unintention charging	al	10mins	cnt	0.0	2mA	-		NL, NS	, NE, NF.
Supplementa	ry informatio	n:	1	R AV		So P	Q.10	1		AD	. d

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium battery							
Maximum	specified	charging voltage	ə (V)		5 - P		—	
Maximum	specified	charging curren	t (A)		SPLAY.	(A)		
Highest s	pecified ch	narging temperat	ture (∘C)		- ADVERTO	AD VER IN		
Lowest sp	ecified ch	arging temperat	ur <mark>e (</mark> °C)					
Battery		Operating	erating Measurement			Observation	ì	
manufactu	irer/type	and fault	Charging	Charging current (A)	Temp.	C PO		
NA IS		alay C	voltage (V)		(°C)	CAL DIAY		
-OPERTISING	-	1		ISING	Photosine Solution	Dierrisin		
Suppleme	ntary infor	mation:						
SPLAY		SPLANC C	S	LAY CA	SPLAY	C. SPLAY		

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Output	Condition	U _{oc} (V)	Time (s)	lsc (A)	S (V/	4)	

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Clause	Requirement + Test		Result - Remark	Verdict

Circuit				Meas.	Limit	Meas.	Limit
USB1(J50, on mainboard 1: 3399F) output	Worst-case load fault	5.24	5	1.3	8	6.32	100
USB1(J50, on mainboard 1: 3399F) output	U2701 Pin 5 to Pin 1, SC	5.24	5	1.5	8	6.93	100
USB2(J51, on mainboard 1: 3399F) output	Worst-case load fault	5.24	5	1.3	8	6.32	100
USB2(J51, on mainboard 1: 3399F) output	U9625 Pin 5 to Pin 1, SC	5.24	5	1.5	8	6.93	100
HDMI1 (on mainboard 1: 3399F) output	Worst-case load fault	0	5	0	8	0	100
HDMI2 (on mainboard 1: 3399F) output	Worst-case load fault	0	5	0	8	0	100
USB3(J5, on mainboard 2: BH- 4K02-EA) output	Worst-case load fault	4.95	5	2.2	8	9.48	100
USB3(J5, on mainboard 2: BH- 4K02-EA) output	U12 Pin 5 to Pin 6, SC	0	5	0	8	0	100
HDMI(on mainboard 2: BH- 4K02-EA) output	Worst-case load fault	0	5	0	8	0	100

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DISPLATIO	DSPLANC	DIS	PLA IG	DISPLA	inic	DISPLA	je
DP(on mainboard 2: BH- 4K02-EA) output	Worst-case load fault	0	5	0	8	0	100
Supplemen	tary Information:		AN CA	40-	N. C	Alon	
SC=Short c	ircuit OC=Open circuit		RTISH	DIPRTIE	11.9	PIPETIS	

T.2, T.3, T.4, T.5	TABLE	E: Steady force	test				P
Location/Part	ne	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Internal component o (T.2)	r p <mark>a</mark> rt	E Tomore C	A.C.	CAL	10	5	Clearances is not reduced, no hazard
Metal Enclosu certified Swite Power Supply	ure of ching y (T.3)	Metal	See certified Switching Power Supply report	CAL	30	5	No damage, no hazard
Metal Enclosu (front)	ure	See appended table 4.1.2	See appended table 4.1.2	- T	250	5	No damage, no hazard
Front LCD pa	inel	See appended table 4.1.2	See appended table 4.1.2	-	250	5	No damage, no hazard

The equipment is a building-in type, consider on the front panel side only, other sides should be evaluated in final system.

T.6, T.9 TAE	BLE: Impact test			P
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Metal Enclosure (front)	See appended table 4.1.2	See appended table 4.1.2	1300	All safeguards remain effective.
Front LCD panel	See appended table 4.1.2	See appended table 4.1.2	1300	All safeguards remain effective.
Supplementary in	formation:	C ADVENDO	ADVENDO'	ADVENTE

The equipment is a building-in type, consider on the front panel side only, other sides should be evaluated in final system.

T.7	TABLE: Drop test			1 AL		N/A
Location/Pa	rt	Material	Thickness	Height	Observatio	on

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Posterio -	ADV	ADVIENTS	(mm)	(mm)	ADVIS	5
	. A	<u></u>	-		-	
Supplementary infor	mation:	· ALERTISIN		" PIERTISINO	P PAR	BING
Ph.				And the second s		

T.8	TABLE	: Stress relief te	st	ADVERT		ADVERIN	N/A
Location/F	Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation
- AO4-	-		nov.	A03		E ADV	
Suppleme	ntary infor	mation:	YAIR	CIT IN	X Cr	AIR	
PLATISIN'		" NERTISIA"	PLERTISIC	· Nertis	19.	OVERTIS!	

X TABLE: Alterna	ative method for determining	g minimum clearances	s distances N/A
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
- SPLAYS SPLA	- settion	-SPLANC	St ANG
Supplementary information:	ADVEN	ADVER	ADVEN

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4.1.2 T	ABLE: Critical compo	onents informatio	n		Р
Object / part N	o. Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Metal Enclosu (front)	re Interchangeable	Interchangeable	Min. 0.6mm thickness	IEC/EN/UL 62368-1	Tested with appliance
LCD panel	LG Display Co., Ltd.	LD550EGY	54.64 inch TFT LCD, with LED backlight	IEC/EN/UL 62368-1	Tested with appliance
AC inlet	RICH BAY CO LTD	R-301SN	6A, 250Vac. 70°C	UL 60320-1	UL E184638
Power switch	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	PS8A	VDE: AC 250 V, 6 (4) A; AC 125 V, 12 A; UL: 8A 250Vac, 10A 125Vac; min. 105°C, Endurance minimum 10000 cycle, PD2, Glow- wire test 850°C	IEC/ EN 61058-1 UL 61058-1	VDE 40027141 UL E236875
(Alternative)	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	PS8A-11	10A 125Vac, 8A 250Vac; min. 125°C, Endurance minimum 10000 cycle, PD2, Glow- wire test 850°C	IEC/ EN 61058-1 UL 61058-1	VDE 40024550 UL E236875
Heat shrink tubing (used fo AC inlet)	WOER HEAT- SHRINKABLE MATERIAL CO LTD	RSFR-H	125°C, 600V, VW-1	UL 224	UL E203950
Alternative	Interchangeable	Interchangeable	Min. 125° <mark>C,</mark> 600V, VW-1	UL 224	UL
Internal primar wire (Power switch to Switching Power Supply	y Interchangeable	Interchangeable	Min. 300V, min. 12AWG, min. 105°C, VW-1	UL 758	
Protective bonding wire	Interchangeable	Interchangeable	Min. 300V, min. 12AWG, min. 105°C, VW-1, green and yellow	UL 758	UL DSPUM
Internal secondary wire (Switching Power Supply output)	Interchangeable	Interchangeable	Min. 300V, min. 22 AWG, min. 80°C, VW-1	UL 758	UL DISTURI
All PCB	Interchangeable	Interchangeable	V-1 or better, min. 130°C	UL 796	UL

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al Mar	rolA is	-pLA:G	rol A ig	- PLA G

Internal plastic parts	Interchangeable	Interchangeable	Minimum V-2.	UL 94, UL 746C	UL
Connectors and receptacles (secondary circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum.	UL 94, UL 746C	UL
RTC battery (J2)	Panasonic Energy Co., Ltd.	CR2032*	Not rechargeable, 3Vdc, 225mAh, Max Abnormal Charge Current 10mA	UL 1642	UL MH12210
Switching Power Supply	MEAN WELL Enterprises Co., Ltd.	RSP-320-24	Input: 100-240Vac, 50/60Hz, 4.0A; Output: 24Vdc, 13.4A. Tma: 50°C. Altitude during operation: 5000m. 1 pcs used	IEC 62368- 1:2018 UL 62368-1	CB by UL (Demko) Certif. No: DK-82561- UL, DK-82561- M1-UL, DK- 82561-M2-UL, DK-82561-M3- UL; Report No.: E183223- 4788449065-1 original, E183223- 4788449065-1 Amendment 2, E183223- 4788449065-1 Amendment 3. UL E183223
Switching Power Supply	MEAN WELL Enterprises Co., Ltd.	LRS-50-12	Input: 100-240Vac, 50/60Hz, 1.0A; Output: 12Vdc, 4.2A. Tma: 50°C. Altitude during operation: 5000m. 1 pcs used	IEC 62368- 1:2018 UL 62368-1	CB by TUV Rh Certif. No: JPTUV- 137050, JPTUV- 137050-M1; Report No.: CN22KWDS 001, CN22KWDS 002.

2) License available upon request.



" DISPLANCE	IEC62368_1E - ATTACHM	ENT	SING
Clause	Requirement + Test	Result - Remark	Verdict
DISPLANCE	ospechic China ospechic China	OSPLA ^{NC}	SING SING
LOVER.	ATTACHMENT TO TEST RE	PORT	
	IEC 62368-1		
	U.S.A. AND CANADA NATIONAL D	IFFERENCES	
(Audio	/video information and communication technology equ	inment - Part 1: Safety require	mente) 🧑
		ipment – Fart T. Oalety require	ments)
Differences a	according to: CSA/UL 62368-1:2019	DSP Land	SING
TRF templat	te used: IECEE OD-2020-F3, Ed.	1.1	
Attachment	Form No US_CA_ND_IEC62368_1	IE DSPLAT	
Attachment	Originator : UL(US)		
Master Attac	chment Dated 2022-03-04		
AD FRIN			-
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	neva, Switzenand. An rights reserved.	PLAN LA LA LA	
	IEC 62368-1 - US and Canadian Natio	onal Differences	
S	Special National Conditions based on Regulations a	and Other National Difference	s
1 sprate	All equipment is to be designed to allow	SPLANC SPL	Р
(1DV.1)	installation in accordance with the National		
(1.3)	Electrical Code (NEC), ANSI/NFPA 70, the		
	Canadian Electrical Code (CEC), Part 1,		
	CAN/CSA C22.1, and when applicable, the		5110
	National Electrical Safety Code, IEEE C2. Also,		
	for such equipment marked or otherwise		
	identified, installation is allowed per the Standard		
	for the Protection of Information Technology		
	Equipment, ANSI/NFPA 75.		
1	This standard includes additional requirements		N/A
(1DV.2.1)	for equipment used for entertainment purposes		5140
	intended for installation in general patient care		
	areas of health care facilities. See Annex DVB.		
1 SPLANG	This standard includes additional requirements		N/A
(1DV.2.2)	for equipment intended for mounting under		
	cabinets. See Annex DVC.		
1 PLAY	IEC 62368-3 clause 5 for DC power transfer at		N/A
(1DV.2.3)	ES1 or ES2 voltage levels is considered		5
	informative. IEC 62368-3 clause 6 for remote		
	power feeding telecommunication (RFT) circuits		
	Is considered normative (see ITU K.50).		5HG
	Alternatively, equipment with RFT circuits are		
	given in either UL 2391 or USA/UL 60950-21.		
	C circuits are not permitted unless the RF1-		
	C circuit complies with $RFI-V$ limits ($\leq 200V$ per		5)
P ^V	conductor to earth).		



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P PRETISING	IEC62368_1E - ATTACHME	ENT	NO
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1 (1DV.3)	For protection against direct lightning strikes, reference is made to NFPA 780 and CAN/CSA-	C SON A COLC SON	N/A
1 (DV.5)	B72 for additional requirements. Additional requirements apply to some forms of power distribution equipment, including sub-	C TO THE CONTRACT OF THE	N/A
4.1 (4.1.17)	For lengths exceeding 3.05 m, external interconnecting cable assemblies are required to be a suitable cable type (e.g., DP, CL2) specified in the NEC.	C POTRICE CALL POTRICE	N/A
Part C	For lengths 3.05 m or less, external interconnecting cable assemblies that are not types specified in the NEC generally are required to have special construction features and identification markings.	CRATTING CALL STRA	N/A
4.6 (4.6.2)	Wire-wrap terminals have special construction and performance requirements.	OSPLAY CAL	N/A
4.8 (4.8.3, 4.8.4.5, 4.8.5)	Coin / button cell batteries have modified special construction and performance requirements.	COSPUNI CALL OSPUN	N/A
5.4.2.3.2 (5.4.2.3.2.1)	Surge Arrestors and Transient Voltage Surge Suppressors installed external to the equipment are required to comply with the appropriate NEC and CEC requirements.	COSPAN CALL OSPAN	N/A
5.5.9	Receptacles, rated 125-V, single phase, 15- or 20-A accessible to either ordinary, instructed, or skilled persons are required to be provided with GFCI Protection for Personnel if the equipment containing the receptacles is installed outdoors. The protection devices are required to comply with UL 943, and CAN/CSA C22.2 No.144.		N/A
5.6.3	Protective earthing conductors comply with the minimum conductor sizes in Table G.7, except as required by Table G.7ADV.1 for cord connected equipment, or Annex DVH for permanently connected equipment.		N/A
5.7.8 (5.7.8.1)	Equipment intended to receive telecommunication ringing signals is required to comply with a special touch current measurement tests.	C POSTAN CAL POSTA	N/A
6.5.1	PS3 wiring outside a fire enclosure is required to comply with single fault testing in B.4, or be current limited per one of the permitted methods.	C PSPAN CI C PSPAN	N/A



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Annex F (F.3.3.9)	Output terminals provided for supply of other equipment, except mains supply, are required to be marked with a maximum rating or reference to equipment permitted to be connected.	- PARAN ENLE PARA	N/A
Annex F (F.3.7)	Outdoor Enclosures are required to be classified and marked in accordance with UL 50 or 50E, or CAN/CSA C22.2 No. 94.1 or 94.2.	Entre Entre	N/A
Annex G (G.7)	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.	TOPLAY EALL TOPLA	N/A
ADVAN A	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.	E TO THE FORMER TO THE	N/A
ND Perform	Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.	ALE -	N/A
Particular Contraction	Minimum cord length is required to be 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement. Power supply cords are required to be no longer than 4.5 m in length if used in ITE Rooms.		N/A
Portensine	Power supply cords for outdoor equipment are required to be suitable outdoor use type as required by Section 400.4 of the NEC and Rule 4-012 of the CEC, i.e., marked "W."	E PISPLAY E PISPLA	N/A
Annex H.2	Continuous ringing signals under normal operating conditions up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	E POSPUN CI CONTRACTORISMA	N/A
Annex H.4	For circuits with other than ringing signals and with voltages exceeding 42.4 Vpeak or 60 Vd.c., the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.		N/A
Annex Q (Q.3)	Equipment with paired conductor and/or coax communications cables/wiring connected to building wiring are required to have special voltage, current, power and marking requirements.		N/A



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Annex DVA (1)	Equipment that is designed such that it may be powered from a separate electrical service, is required to meet applicable requirements for service equipment for control and protection of services and their installation and complies with Article 230 of the National Electrical Code (NEC), NFPA 70 and Section 6 of the Canadian Electrical Code, Part I, CSA C22.1.	PARTING COLLEGE PARTING	N/A
Post of the C	Equipment intended for use in spaces used for environmental air (plenums) are subjected to special flammability requirements for heat and visible smoke release.	Constants Constants	N/A
Part All	For ITE room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.		N/A
And Spinkle	Consumer products designed or intended primarily for children 12 years of age or younger are subject to additional requirements in accordance with U.S. and Canadian Regulations.	E ROSPIN EINE POSPIN	N/A
ADVERTISHE	Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.	CROSTAN CAR CROSTA	N/A
Particular C	Storage batteries and battery management equipment, other than associated with lead-acid batteries, and including battery backup systems that are not an integral part of stationary AV and ICT equipment, such as provided in separate cabinets, are required to be certified (listed) to the appropriate standard(s) for such storage batteries and equipment.		N/A
Annex DVA (5.6)	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.	C Post of the C Post of the	Р
Annex DVA (6.3)	The maximum quantity of flammable liquid stored in equipment is required to comply with NFPA 30.	AND STATISTICS CONTRACTOR	N/A



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Annex DVA (6.4.8)	For ITE room applications, enclosures with combustible material measuring greater than 0.9 m^2 (10 sq ft) or a single dimension greater than 1.8 m (6 ft) are required to have a flame spread rating of 50 or less. For equipment with the same dimensions for other applications, an external surface that is not a fire enclosure requires a minimum flammability classification of V-1.		N/A
Annex DVA (10.3)	Equipment with lasers is required to meet the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	E SPERALE SPERA	N/A
Annex DVA (10.5)	Equipment that produces ionizing radiation is required to comply with the U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370).		N/A
Annex DVA (F.3.3.4)	Equipment for use on a.c. mains supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings. Additional considerations apply for voltage ratings that exceed the attachment cap rating or that are lower than the "Normal Operating Condition" in Table 2 of CAN/CSA C22.2 No. 235."	SPAN ERLE POSTA	N/A
Annex DVA (F.3.3.6)	Equipment identified for ITE (computer) room installation is required to be marked with the rated current.	TARAN EALL STALL	N/A
Annex DVA (G.1)	Vertically-mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position, where mounted in an enclosure, vertically mounted disconnect switches and circuit breakers with vertical operating means extending outside the enclosure are required to indicate in a location visible when accessing the external operating means whether the switch or circuit breaker is in the open (off) or closed (on) position.		N/A
Annex DVA (G.3.4)	Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is required for all standard supply outlets and receptacles (such as supplied in power distribution units) if the supply branch circuit protection is not suitable.	CROSPAN CALL ROSPA	N/A
PISPLAY C	Where a fuse is used to provide Class 2 or Class 3 current limiting, it is not operator-accessible unless it is non- interchangeable.	Carlender Clark	N/A

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Annex DVA (G.4.2)	Equipment with isolated ground (earthing) receptacles is required to comply with NEC		N/A
Annex DVA (G.4.3)	Interconnection of units by conductors supplied by a limited power source, or a Class 2 circuit defined in the NEC/CEC may have field wiring connections other than specified in DVH.3, such as wire-wrap and crimp-on types, if the limited power source and Class 2 circuits are separated from all other circuits by barriers, routing or fixing.		N/A
Annex DVA (G.5.3)	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.	- BISPLAY EALL	N/A
Annex DVA (G.5.4)	Motor control devices are required for cord-connected equipment with a mains- connected motor if the equipment is rated more than 12 A, or if the equipment has a nominal voltage rating greater than 120 V, or if the motor is rated more than 1/3 hp (locked rotor current over 43 A).		N/A
Annex DVA (G.7)	Flexible cords used outdoors are required to have the suffix "W" marked on the flexible cord.	SPLAY EAL	N/A
Annex DVA (M)	For ITE room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the ITE room remote power-off circuit.	E ROSPUNICE CONTRACTOR	N/A
Annex DVA (Q)	If applicable per NEC 725.121(C), some limited power sources supplied from AV/ICT equipment are required to have a label indicating the maximum voltage and rated current output for per conductor for each connection point. Where multiple connection points have the same rating, a single label is permitted to be used.		N/A
PSPLAY PSPLAY	Wiring terminals intended to supply Class 2 outputs in accordance with the NEC or CEC Part 1are required to be marked with the voltage rating and "Class 2" or equivalent. The marking is located adjacent to the terminals and visible during wiring.	Entre PSPA	N/A
PISPLAY C	Applicable parts of Chapter 8 of the NEC, and Rules 54 and 60 of the CEC, may be applicable to ITE installed outdoors with connections to communication systems.	E PARAN ENLE	N/A



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Annex DVB	Additional requirements apply for equipment	Solution Solution	N1/A
(1)	used for entertainment purposes intended for		N/A
	installation in general patient care areas of health		
	care facilities.	Series States	
Annex DVC	Additional requirements apply for equipment		N/A
(1)	intended for mounting under kitchen cabinets.		
Annex DVF	Some equipment, components, sub-assemblies		D
(4.1.1)	and materials associated with the risk of fire.		E C
	electric shock, or personal injury are required to		
	have component or material ratings in	SPLA STAR	
	accordance with the applicable national (U.S.	Pole. Pole.	
	and Canadian) component or material		
	requirements. These equipment and components	SPLAY SA SPLAY	
	include: appliance couplers, attachment plugs,	· Overits	
	battery backup systems, circuit breakers,		
	communication circuit accessories, connectors	ALAN CAN DIA	
	(used for current interruption of non-LPS	Districted Street	
	circuits), direct plug-in equipment,	Post.	
	electrochemical capacitor modules (energy		
	storage modules with ultracapacitors),	SPLANC SPLA	
	enclosures (outdoor), flexible cords and cables,	ADVER'	
	interruptore, interconnecting cobles, modular		
	data centres, nower supply cords, some power	Algo Margare	
	distribution equipment printed wiring protectors	Pretion	
	for communications circuits receptacles surge		
	protective devices, vehicle battery adapters, wire		
	connectors, and wire and cables.	Distance Distance	
Annex DVH	Equipment for permanent connection to the		N/A
	mains supply is subjected to additional		
DISPLANCE	requirements.	DSPLATE DSPLA	
Annex DVH	Wiring methods (terminals, leads, etc.) used for	ADVS. ADVS.	N/A
(DVH.1)	the connection of the equipment to the mains are		
CPLA'S	required to be in accordance with the NEC/CEC.	Ala	
Annex DVH	For safe and reliable connection to a mains,	DUERTU DUERTU	N/A
(DVH.2.1)	permanently connected equipment is to be		
	provided.	No.	
(DVH.2.2)	Additional considerations for D.C. mains.	a and the second s	N/A
Annex DVH	Terminals for permanent wiring, including		N/A
(DVH.3.2.1)	protective earthing terminals, are required to be		
	suitable for U.S./Canadian wire gauge sizes,	Strong Strong	
	rated 125 percent of the equipment rating, and	C POAL	
	be specially marked when specified.		
Annex DVH	Wire binding screws are not permitted to attach	SPLA'S SPLA	N/A
(DVH.3.2.3)	conductors larger than 10 AWG (5.3 mm ²).	Souther Souther	


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Annex DVH (DVH.3.2.4) All associated mains supply terminals are located in proximity to each other and to the		- nee	N/A
SPLANG	main protective earthing terminal, if any.	SPLAG	
Annex DVH (DVH.3.2.5)	Terminals are located, guarded or insulated so that, should a strand of a conductor escape when the conductor is fitted, there is no	C Roter	N/A
PSPLAY C	likelihood of accidental contact between such a strand and accessible conductive parts or unearthed conductive parts separated from accessible conductive parts by supplementary insulation only.	C POSPLAY CITLE POSPLAY	
Annex DVH (DVH.3.3)	When field connection to an external circuit is via wires (example, free conductors), the wires are	- ALL	N/A
AD LETISTIC	not smaller than 18 AWG (0.82 mm ²) and the free length of the wire inside an outlet box or wiring compartment is 150 mm or more.	C Particle La Constant	
Annex DVH (DVH.3.4)	Size of protective earthing conductors and terminals	PSPAR LINE PSPAR	N/A
Annex DVH (DVH.4)	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.	DISPLAY CALL DISPLAY	N/A
Annex DVH (DVH.4.1)	Wire bending space	C ROT	N/A
Annex DVH (DVH.4.2)	Volume of wiring compartment	DISPLAY CA	N/A
Annex DVH (DVH.4.3)	Separation of circuits	2	N/A
Annex DVH (DVH.5)	Equipment markings and instructional safeguards	Display China Display	N/A
Annex DVH (DVH.5.1)	Identification of protective earthing terminal		N/A
Annex DVH (DVH.5.2)	Identification of terminal for earthed conductor (neutral)	- Distance - Distance	N/A
Annex DVH (DVH.5.3)	Identification of terminals for aluminium		N/A
Annex DVH (DVH.5.4)	Wire temperature ratings	A DEPENDENCE DEPENDENCE	N/A
Annex DVH (DVH 5.5)	Equipment connected to a centralized d.c. power system, and having one pole of the DC mains input terminal connected to the main protective earthing terminal in the equipment, is required to comply with special earthing, wiring, marking and installation instruction requirements.		
Annex DVI (6.7)	Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses.	C SPUN EALE SOUTH	N/A

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Annex DVJ	Equipment connected to a telecommunication	POA.	N/A
(10.6.1)	and cable distribution networks and supplied with		
PLAY	an earphone intended to be held against, or in	ALON ALON ALON	
· PIERTISIN'	the ear is required to comply with special	Provide the second s	
AL AL	acoustic pressure requirements.		

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