

**Shenzhen GCL Electronics Co.,LTD****CE LVD REPORT**

Prepared For:	Shenzhen GCL Electronics Co.,LTD Building 2, Jingding Industrial Park , No. 2 Jinlong Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Product Name:	LED MONITOR
Trade Name:	GCL
Model No.:	GC-IFS-P0.7, GC-IFS-P0.8, GC-IFS-P0.9, GC-IFS-P1.0, GC-IFS-P1.2, GC-IFS-P1.25, GC-IFS-P1.26, GC-IFS-P1.X, GC-IFS-P1.3, GC-IFS-P1.35, GC-IFS-P1.38, GC-IFS-P1.4, GC-IFS-P1.48, GC-IFS-P1.5, GC-IFS-P1.56, GC-IFS-P1.5625, GC-IFS-P1.583, GC-IFS-P1.6, GC-IFS-P1.667, GC-IFS-P1.8, GC-IFS-P1.875, GC-IFS-P1.9, GC-IFS-P1.923, GC-IFS-P2.0, GC-IFS-P2.5, GC-IFS-P2.6, GC-IFS-P2.9, GC-IFS-P2.976, GC-IFS-P3, GC-IFS-P3.07, GC-IFS-P3.81, GC-IFS-P3.91, GC-IFS-P4, GC-IFS-P4.81, GC-IFS-P5, GC-IFS-P5.9, GC-IFS-P6, GC-IFS-P6.25, GC-IFS-P7.62, GC-IFS-P8, GC-IFS-P10, GC-IFS-P12, GC-IFS-P16, GC-IFS-P20, GC-IFS-P22, GC-IFS-P24, GC-IFS-P25, GC-IFS-P30, GC-IFS-P31.25, GC-IFS-P50, GC-IFS-PS1, GC-IFS-P100
Prepared By:	BST Technology (Shenzhen) Co.,Ltd. No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test Date:	May.25- Jun. 07, 2022
Date of Report:	Jun. 07, 2022
Report No.:	BSTXD220521840301SR



LVD Report EN 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Testing laboratory	: BST Technology (Shenzhen) Co.,Ltd.
Address	: No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Testing location	: BST Technology (Shenzhen) Co.,Ltd.
Applicant	: Shenzhen GCL Electronics Co.,LTD
Address	: Building 2, Jingding Industrial Park , No. 2 Jinlong Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Standard	: EN IEC 62368-1:2020+A11:2020
Procedure deviation	: N/A.
Non-standard test method	: N/A.
Type of test object	: LED MONITOR
Trademark	: GCL
Model and/or type reference :	GC-IFS-P0.7, GC-IFS-P0.8, GC-IFS-P0.9, GC-IFS-P1.0, GC-IFS-P1.2, GC-IFS-P1.25, GC-IFS-P1.26, GC-IFS-P1.X, GC-IFS-P1.3, GC-IFS-P1.35, GC-IFS-P1.38, GC-IFS-P1.4, GC-IFS-P1.48, GC-IFS-P1.5, GC-IFS-P1.56, GC-IFS-P1.5625, GC-IFS-P1.583, GC-IFS-P1.6, GC-IFS-P1.667, GC-IFS-P1.8, GC-IFS-P1.875, GC-IFS-P1.9, GC-IFS-P1.923, GC-IFS-P2.0, GC-IFS-P2.5, GC-IFS-P2.6, GC-IFS-P2.9, GC-IFS-P2.976, GC-IFS-P3, GC-IFS-P3.07, GC-IFS-P3.81, GC-IFS-P3.91, GC-IFS-P4, GC-IFS-P4.81, GC-IFS-P5, GC-IFS-P5.9, GC-IFS-P6, GC-IFS-P6.25, GC-IFS-P7.62, GC-IFS-P8, GC-IFS-P10, GC-IFS-P12, GC-IFS-P16, GC-IFS-P20, GC-IFS-P22, GC-IFS-P24, GC-IFS-P25, GC-IFS-P30, GC-IFS-P31.25, GC-IFS-P50, GC-IFS-PS1, GC-IFS-P100
Rating	: AC100-240V~, 50/60Hz, 176W
Manufacturer	: Shenzhen GCL Electronics Co.,LTD
Address	: Building 2, Jingding Industrial Park , No. 2 Jinlong Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Test item particulars:	
Equipment mobility	: Equipment for building-in
Operation condition	: Continuous
Class of equipment	: Class I
Protection against ingress of water .:	: N/A




Possible test case verdicts :

- test case does not apply to the test object : N(.A.)
- test object does meet the requirement : P(ass)
- test object does not meet the requirement : F(ail)

<p>General remarks:</p> <p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p>	<p>Attached with:</p> <p>A. photo documentation</p> <p>B. General product information:</p> <p>The differences among models are type designation, electrical component parameter, housing and mechanical aspects. Therefore, we select GC-IFS-P3.91 to test</p>
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Artwork of Marking Label

<p>LED MONITOR</p> <p>Model : GC-IFS-P3.91</p> <p>Rating: AC100-240V~, 50/60Hz, 176W</p> <div style="text-align: center;">  </div> <p>Shenzhen GCL Electronics Co.,LTD</p>



Name and address of the testing laboratory : **BST Testing (Shenzhen) Co.,Ltd**

No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China

Test by : Apple Li Signature Date Jun. 07, 2022

Technician
Title

Review by : Sabon Signature Date Jun. 07, 2022

Project Engineer
Title

Approved by : [Stamp] Signature Date Jun. 07, 2022

Andy Yan/ Manager
Name and Title



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

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies		P
4.1.2	Use of components		P
4.1.15	Markings and instructions	See Annex F	P
4.4.5	Safeguard robustness		N
4.5	Explosion		N

5	ELECTRICALLY-CAUSED INJURY		P
5.2	Classification of electrical energy sources		P
5.2.1	Electrical energy source classifications		P
5.2.2	ES1, ES2 and ES3 limits		P
5.2.2.2	Steady-state voltage and current		P
5.2.2.3	Capacitor		P
5.2.2.4	Single pulses		P
5.2.2.5	Repetitive pulses		N
5.2.2.6	Ringing signals		N
5.2.2.7	Audio signals		N
5.3	Protection against electrical energy sources		N
5.3.2.2	Safeguards between ES2 and ordinary persons		N
5.3.2.3	Safeguards between ES3 and ordinary persons		N
5.3.3.2	Safeguards between ES3 and instructed persons		N
5.3.4.2	Safeguards between ES3 and skilled persons		N
5.3.5.2	Safeguard between ES1, ES2 and ES3		N
5.3.5.3	Protection of ES2 against ES3		N
5.3.6.1	Accessibility to electrical energy sources and safeguards for ordinary persons		N
	Accessibility to electrical energy sources and safeguards for instructed persons are prevented from access to		N
5.3.6.2	Contact requirements Air gap (mm)		N
5.3.6.4	Terminals for connecting stripped wire		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4	Insulation materials and requirements		P
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning		P
	Relative humidity (%)		—
	Temperature (°C),		—
	Duration (h).....		—
5.4.1.4	Frequency		P
	Alternative electric strength test for solid insulation		—
5.4.1.5	Maximum operating temperature for insulating materials	See appended table 5.4.1.5	P
5.4.1.6	Pollution degree		P
5.4.1.7	Insulation in transformers with varying dimensions		N
5.4.1.8	Insulation in circuits generating starting pulses		N
5.4.1.9	Determination of working voltage		P
5.4.1.10	Insulating surfaces		P
5.4.1.11	Thermoplastic parts on which conductive metallic parts are directly mounted	T1 bobbin, plug holder.	P
5.4.1.11.2	Vicat softening temperature (°C).....		N
5.4.1.11.3	Ball pressure	See appended table 5.4.1.11.3	P
5.4.2	Clearances		P
5.4.2.3	Determination of Clearances		P
	Transient Voltage.....		—
	Required withstand voltage		—
	Measured peak working voltage		—
5.4.2.4	Determination of transient voltages		P
5.4.2.5	Determination of required withstand voltage		P
5.4.2.6	Measurement of transient voltage levels		P
5.4.2.7	Determination of the minimum clearance	See appended table 5.4.2	P
5.4.2.8	Minimum clearances based on electric strength test	See appended table 5.4.2.8	P
5.4.2.9	Multiplication factors for clearances and test voltage.....		N
5.4.3	Creepage distances	See appended table 5.4.3	P



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.3.1	General		P
5.4.3.2.2	Material Group	IIIb	—
5.4.4	Solid insulation		P
5.4.4.2	Minimum distance through insulation	See appended table 5.4.4.2	P
5.4.4.3	Insulation compound forming solid insulation		N
5.4.4.4	Semiconductor solid insulation		P
5.4.4.5	Cemented joints		N
5.4.4.6	Thin sheet material		P
5.4.4.6.1	General requirements		P
5.4.4.6.2	Separable thin sheet material		P
5.4.4.6.3	Non-separable thin sheet material		N
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N
5.4.4.6.5	Mandrel test		N
5.4.4.7	Solid insulation in wound components		P
5.4.4.9	Solid insulation at frequencies >30 kHz		N
	High frequency peak working voltage V_{PW} (V)		—
	Total thickness d (mm)		—
	Breakdown electric field strength E_p (kV/mm)		—
	Reduction Factor K_R (kV/mm)		—
	Breakdown electric field strength E_F		—
	Actual electric strength V_W (kV)		—
5.4.5	Antenna terminal insulation		P
5.4.5.1	General		P
5.4.5.2	Antenna Terminal connections		P
	Insulation resistance ($M\Omega$)	>100 $M\Omega$	—
5.4.6	Insulation of internal wire as part of supplementary insulation		N
5.4.7	Thermal cycling test procedure		N
5.4.8	Test for degree 1 environment and for an insulating compound		N
5.4.9	Tests for semiconductor components and for cemented joints		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11	Electric strength test	See appended table 5.4.11	P
5.4.11.1	Test procedure for a solid insulation type test		P
5.4.11.2	Test procedure for routine tests		P
5.4.12	Protection against overvoltages between external circuit		N
5.4.12.1	Parts and circuits separated from external circuits		N
5.4.13	Insulation between external circuits and earthed circuitry		N
5.4.13.1	Exceptions to separation between external circuits and earth		N
5.4.13.2	Requirements		N
	Rated operating voltage U_{op} (V).....:		—
	Nominal voltage U_{pea} (V).....:		—
	Max increase due to variation U_{sp}		—
	Max increase due to ageing $\square U_{sa}$		—
	$U_{op} = \square U_{peak} + \Delta \square U_{sp} + \Delta \square U_{sa}$:		—
5.5	Components as safeguards		
5.5.1	General		P
5.5.2	Components as basic safeguard and supplementary safeguard		P
5.5.2.2	Capacitors and RC units as basic safeguards and supplementary safeguard		P
5.5.2.3	Safeguards against capacitor discharge		P
	Capacitance (nF)		—
	Charged voltage (V)		—
	Measured voltage after 2 s (V)		—
5.5.2.4	Transformers as basic safeguard or supplementary safeguard		P
5.5.2.5	Optocouplers as basic safeguard or supplementary safeguard		N
5.5.2.6	Relay as basic safeguard or supplementary safeguard		N
5.5.2.7	Resistors as basic safeguard or supplementary safeguard	See appended table 5.5.2.7	P
5.5.2.8	SPD as basic safeguard		P



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.9	Other components as basic safeguards between ES1 and ES2		N
5.5.3	Components as reinforced safeguard		P
5.5.3.1	General requirements		P
5.5.3.2	Capacitors and RC	See Annex G	P
5.5.3.3	Transformer	See Annex G	P
5.5.3.4	Optocouplers		N
5.5.3.5	Relays		N
5.5.3.6	Resistors	See Annex G	P
5.5.4	Insulation between the mains and external circuit consisting of a coaxial	See Annex G	P
5.5.5	Components and parts that may bridge insulation	See Annex T	P
5.5.5.1	Access to ES2 or ES3		N
5.6	Protective conductor		N/A
5.6.1	General requirements		N
5.6.2	Corrosion		N
5.6.3	Colour of insulation		N
5.6.4	Test for low current-carrying protective conductors resistance (Ω), voltage drop (V), test current (A), duration (min)		N
5.6.5	Protective conductors used as basic safeguard between ES1 and ES2		N
5.6.5.1	General		N
5.6.5.2	Fault current-carrying protective conductors		N
5.6.5.2.3	Protective earthing conductor size (mm^2)		P
	Protective bonding conductor size (mm^2).....		P
5.6.6	Protective conductors used as supplementary safeguard		N
5.6.6.1	General		N
5.6.6.2	Size of protective earthing conductors and terminals, Rated current (A)		P
	Conductor size		—
	Terminal size		—
5.6.6.3.	Size of protective bonding conductors and terminals, Rated current (A)		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Conductor size (mm ²).....:		—
	Terminal size (mm).....:		—
5.6.6.4	Resistance of protective conductors and their terminations		N
5.6.6.4.1	Protective bonding conductors and terminals rated 80 A or more		N
5.6.6.4.2	Protective Bonding Conductor		N
	Resistance (Ω).....:		—
	Voltage drop (V)		—
	Test current (A)		—
	Duration (min).....:		—
5.6.7	Protective earthing conductors serving as double or reinforced safeguard		N
5.6.7.1	General		P
5.6.7.2	Requirements for protective earthing conductors serving as reinforced safeguard		P
5.6.7.3	Terminations		N
	Terminal size (mm).....:		—
5.6.8	Reliable earthing		P
5.6.8.2	Reliable earthing for protection		P
5.6.8.3	Reliable earthing when the basic safeguard between ES1 & ES2 is provided by earthing ES1		P
5.7	Prospective touch voltage, touch current and protective conductor current		N
5.7.2	Measuring devices and networks		N
5.7.3	Equipment set-up, supply connections and earth connections		N
	System of interconnected equipment (separate connections/single connection)		—
	Multiple connections to mains (one connection at a time/simultaneous connections)..... :		—
5.7.4	Unearthed conductive accessible parts		N
5.7.4.1	Unearthed parts accessible to ordinary persons		N
5.7.4.2	Unearthed parts accessible to instructed persons		N
5.7.5	Earthed accessible conductive parts		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6	Protective conductor current		N
	Supply Voltage (V)		—
	Measured current (mA)		—
	Instructional Safeguard		N
5.7.7	Prospective touch voltage and touch current due to external circuits		N
5.7.8	Summation of touch currents from external circuits		N
	a) Equipment with earthed external circuits Measured current (mA)		N
	B) Equipment whose external circuits are not referenced to earth. Measured current (mA).....		N
6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		P
6.2.2	Power source circuit classifications		P
6.2.2.1	General		P
6.2.2.2	Power measurement for worst-case load fault		P
6.2.2.3	Power measurement for worst-case power source fault		P
6.2.2.4	PS1		P
6.2.2.5	PS2		P
6.2.2.6	PS3		P
6.2.3.1	Arcing PIS		P
	Component, location		—
6.2.3.2	Resistive PIS		P
	Component, location		—
6.3	Safeguards against fire under normal operating conditions and abnormal operating conditions		
6.3.1	Requirements	See appended table 6.3.2	P
6.4	Safeguards against fire under single fault conditions		P
6.4.1	Protection Method		P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N
6.4.3.1	General		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.2	Supplementary Safeguards		N
6.4.3.3	Single Fault Conditions		N
6.4.5	Control of fire spread in PS2 circuits		P
6.4.5.2	Supplementary safeguards	See Annex G	P
6.4.6	Control of fire spread in PS3 circuit		P
6.4.7	Separation of combustible materials from a PIS		N
6.4.7.1	General		N
6.4.7.2	Separation by distance		N
6.4.7.3	Separation by a fire barrier		N
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties		P
6.4.8.1.1	Requirements for a fire barrier		N
6.4.8.1.2	Requirements for a fire enclosure		P
6.4.8.2	Constructional requirements for a fire enclosure and a fire barrier		P
6.4.8.2.1	Fire enclosure and fire barrier openings		N
6.4.8.2.2	Fire barrier dimensions		N
6.4.8.2.3	Fire Enclosure dimensions, top openings (mm) .. :		N
	Needle Flame test		N
6.4.8.2.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c): dimensions (mm)		N
6.4.8.2.5	Integrity of the fire enclosure, condition met: a), b) or c): dimensions (mm)		N
6.4.8.3	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating		N
6.5	Internal and external wiring		P
6.5.1	General	See appended table 6.5	P
6.5.2	Cross-sectional area (mm ²)		--
6.5.3	Flammability		P
6.5.4	Requirements for interconnection to building wiring	See Annex Q	P
6.6	Likelihood of fire due to entry of foreign objects,	See Annex P	P
	Construction and dimensions (mm)		—
6.7	Safeguards against fire due to connection to secondary equipment		N
	External port limited to PS2		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
7	CHEMICALLY-CAUSED INJURY		N
7.2	Reduction of exposure to hazardous chemicals		N
7.3	Ozone exposure		N
7.4	Use of PPE		N
	Type of PPE		—
7.5	Use of instructional safeguards and instructions		N
	Instruction Safeguard (ISO 7010)		N
7.6	Batteries		N
8	MECHANICALLY-CAUSED INJURY		P
8.1	General		P
8.2	Mechanical energy source classifications		P
8.3	Protection against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards		N
8.4.2	Instructional safeguard		N
8.5	Safeguards against moving parts		N
8.5.2	MS2 or MS3 part required to be accessible for the function of the equipment		N
	Instructional Safeguard		—
8.5.4	Special categories of equipment comprising moving parts		N
8.5.4.1	Large data storage equipment		N
8.5.4.2	Equipment having electromechanical device for destruction of media		N
8.5.4.2.1	Safeguards and Safety Interlocks		N
8.5.4.2.2	Instructional safeguards against moving parts		N
	Instructional Safeguard		—
8.5.4.2.3	Disconnection from the supply		N
8.5.4.2.4	Probe type and force (N).....		N
8.5.5	Protection of persons against loosening, exploding or imploding parts		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.1	Protection against MS3 parts		N
8.5.5.2.1	Mechanical enclosure requirements for rotating solid media		N
8.5.5.2.2	High pressure lamps		N
8.6	Stability		N
8.6.1	Product classification		N
	Instructional Safeguard		—
8.6.2	Static stability for floor standing equipment		N
8.6.2.1	Requirements		N
8.6.2.2	Static stability test		N
	Applied Force		—
8.6.2.3	Relocation stability test		N
	Unit configuration during 10° tilt		—
8.6.3	Non-floor standing equipment having controls that are accessed during normal use or having displays with moving images		N
8.6.3.1	Glass slide test		N
8.6.3.2	Horizontal force test (Applied Force)		N
	Position of feet or movable parts		—
8.7	Equipment mounted to wall or ceiling		N
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N
8.7.2	Direction and applied force		N
8.8	Handles strength		N
8.8.1	Classification		N
8.8.2	Applied Force		N
8.9	Wheels or casters attachment requirements		N
8.9.1	Classification		N
8.9.2	Applied force.....		N
8.10	Carts, stands and similar carriers		N
8.10.1	General		N
8.10.2	Marking and instructions		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard		—
8.10.3	Cart, stand or carrier loading test and compliance		N
	Applied force.....		—
8.10.4	Cart, stand or carrier impact test		N
8.10.5	Mechanical stability		N
	Applied horizontal force (N)		—
8.10.6	Thermoplastic temperature stability (°C)		N
8.11	Mounting means for rack mounted equipment		N
8.11.2	Mechanical strength test, variable <i>N</i>		N
8.11.3	Mechanical strength test 250N, including end stops		N
8.12	Telescoping or rod antennas		N
	Button/Ball diameter (mm)		—

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications		P
9.3	Protection against thermal energy sources		N
9.3.2	Protection of ordinary person		N
9.3.2.1	Protection of ordinary person against TS1		N
9.3.2.2	Protection of ordinary person against TS2		N
	Instructional Safeguard		N
9.3.2.3	Protection of ordinary person against TS3		N
9.3.2.4	Identify safeguards		N
9.3.3	Protection of instructed person		N
9.3.3.1	Protection of instructed person against TS2		N
9.3.3.2	Protection of instructed person against TS3 (Identify safeguards)		N
9.3.4	Protection of skilled person		N
	Instructional Safeguard		N
9.4.1	Equipment safeguard		P
9.4.1.2	Temperatures on Accessible Surfaces		P
9.4.2	Instructional safeguard		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
10	RADIATION		N
10.2	Radiation energy source classifications		N
10.3	Requirements for electromagnetic radiation		N
10.3.1	General		N
10.3.1.1	Protection of persons from non-ionizing radiation		N
10.3.1.2	Non-ionizing radiation from lasers		N
	Laser Class, conditions		—
10.3.1.3	Non-ionizing optical radiation from lamps and lamp systems (including LEDs)		N
10.3.1.3.1	Identification of lamp or lamp system		N
10.3.1.3.2a	UV radiation		N
	Instructional Safeguard (person and text)		—
10.3.1.3.2b	Visible Radiation		N
	Instructional Safeguard (person and text)		—
10.3.2	Non-ionizing radiation from radio frequencies in the range 0 Hz to 300 GHz		N
10.3.3	Protection of persons from ionizing radiation (X-radiation)		N
10.3.3.2	Maximum radiation (pA/kg)		—
10.3.3.3	Supply voltage (V), distance (mm)		—
10.3.3.4	Abnormal and Single fault condition		N
10.3.4	Protection of materials from lamps that produce UV radiation		N
10.4	Protection against acoustic energy sources		N
10.4.1	Safeguards		N
10.4.3	Protection of ordinary persons from acoustic energy sources (instructional safeguard)		N
B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions		P
B.2.1	General requirements	See Test Item Particulars and appended test tables	P
	Audio Amplifiers and equipment with audio amplifiers		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.2.5	Input test	See appended table B.2.5	P
B.3	Simulated abnormal operating conditions		P
B.3.1	General requirements		P
B.3.2	Covering of ventilation openings		N
B.3.3	D.C. mains polarity test		N
B.3.4	Setting of voltage selector		N
B.3.5	Maximum load at output terminals		P
B.3.6	Reverse battery polarity		N
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N
B.3.8	Safeguards functional during and after abnormal operating conditions		P
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short-circuited		N
B.4.3	Motor tests		N
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature		N
B.4.4	Short circuit of functional insulation		P
B.4.4.1	Short circuit of clearances for functional insulation		P
B.4.4.2	Short circuit of creepage distances for functional insulation		P
B.4.4.3	Short circuit of functional insulation on coated printed boards		N
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		P
B.4.6	Short circuit or disconnect of passive components		P
B.4.7	Continuous operation of components		N
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		P
B.4.9	Battery charging under single fault conditions		N
C	UV RADIATION		N
C.1	Protection of materials in equipment from UV radiation		N
C.1.2	Requirements		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
C.1.3	Test method		N
C.2	UV light conditioning test		N
C.2.1	Test apparatus		N
C.2.2	Mounting of test samples		N
C.2.3	Carbon-arc light-exposure apparatus		N
C.2.4	Xenon-arc light exposure apparatus		N
D	TEST GENERATORS		N
D.1	Impulse test generators		N
D.2	Antenna interface test generator		N
D.3	Electronic pulse generator		N
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N
E.1	Audio amplifier normal operating conditions		N
	Audio signal voltage (V).....:		—
E.2	Audio amplifier abnormal operating conditions		N
F	ANNEX F, EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P
F.1	General requirements		P
	Instructions – Language		—
F.2	Letter symbols and graphical symbols		P
	Letter symbols		P
	Graphic symbols IEC, ISO or manufacturer specific		P
F.3	Equipment markings		P
F.3.1	Equipment marking locations		P
F.3.2	Equipment identification markings		P
F.3.2.1	Manufacturer identification		P
F.3.2.2	Model identification		P
F.3.3	Equipment rating markings		P
F.3.3.1	Equipment without direct connection to mains		P
F.3.3.2	Nature of supply voltage		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.3	Rated voltage		--
F.3.3.4	Rated frequency		--
F.3.3.5	Rated current or rated power		--
F.3.3.6	Equipment with multiple supply connections		--
F.3.4	Voltage setting device		N
F.3.5	Terminals and operating devices		N
F.3.5.1	Mains appliance outlet and socket-outlet markings		N
F.3.5.2	Switch position identification marking		N
F.3.5.3	Replacement fuse identification and rating markings		P
F.3.5.4	Replacement battery identification marking		N
	Language		—
F.3.6	Equipment markings related to equipment classification		P
F.3.6.1	Class I Equipment		N
F.3.6.1.1	Protective earthing conductor terminal		P
	-Complete equipment (IEC60417-5017)		N
	-Sub-assembly/component (IEC60417-5017 or – 5019)		N
F.3.6.1.2	Neutral conductor terminal		N
F.3.6.1.3	Protective bonding conductor terminals		N
F.3.6.1.4	Terminal marking location		N
F.3.6.2	Class II equipment (IEC60417-5172)		N
F.3.7	Equipment IP rating marking		--
F.3.8	Durability, legibility and permanence of markings		N
F.3.9	Test for permanence of markings		P
F.4	Instructions		P
	Instructions given for installation or initial use		P
	Equipment for use in locations where children not likely to be present marked with the relevant marking		P
	Equipment intended for use only in restricted access area		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N
	Protective earthing employed as safeguard		P
	Protective earthing conductor current exceeding ES 2 limits		P
	Symbols used on equipment		P
	Permanently connected equipment not provided with all-pole mains switch		N
	Replaceable components or modules providing safeguard function		N
F.5	Instructional safeguards		N
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N

G	COMPONENTS		P
G.1	Switches		N
G.1.1	General requirements		N
G.1.2	Ratings, endurance, spacing, maximum load		N
G.2	Thermal cut-offs		N
G.2.1 a), b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N
G.2.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N
G.3	Thermal links		N
G.3.1a)	Thermal links separately tested with IEC 60691		N
G.3.1b)	Thermal links tested as part of the equipment		N
	Aging hours (H)		—
	Single Fault Condition		—
	Test Voltage (V) and Insulation Resistance (Ω)...		—
G.4	PTC Thermistors		N
G.5	Overcurrent protection devices		N
G.6	Protective devices not mentioned in G.2 to G.5		N
	Compliance (device and single fault condition)....:		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.7	Transformers		P
G.7.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)		P
	Position.....:		—
	Method of protection		—
G.7.2	Insulation		P
	Protection from displacement of windings		P
G.7.3	Overload test		P
G.7.3.1	Test conditions		P
G.7.3.2	Winding Temperatures testing in the unit		P
G.7.3.3	Winding Temperatures - Alternative test method		N
G.8	Motors		N
G.8.1	General requirements		N
	Position.....:		—
G.8.2	Test conditions		N
G.8.3	Running overload test		N
G.8.4	Locked-rotor overload test		N
	Test duration (days)		—
G.8.5	Running overload test for d.c. motors in secondary circuits		N
G.8.5.2	Tested in the unit		N
G.8.5.3	Tested on the Bench - Alternative test method; test time (h)		N
G.8.5.4	Electric strength test (V).....:		N
G.8.6	Locked-rotor overload test for d.c. motors in secondary circuits		N
G.8.6.2	Tested in the unit		N
G.8.6.3	Tested on the bench - Alternative test method; test time (h) :		N
G.8.7.1	Electric strength test for ES2 or ES3 motors (V) :		N
G.8.7.2	Maximum temperatures		N
G.8.8	Motors with capacitors		N
G.8.9	Three-phase motors		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.8.10	Series motors		N
	Operating voltage		—
G.9	Mains supply cords		P
G.9.1	General requirements		P
	Type.....		—
	Rated current (A)		—
	Cross-sectional area (mm ²), (AWG)		—
G.9.2	Compliance and test method		N
G.9.3	Cord anchorages and strain relief for non-detachable VIDEO DOOR PHONE cords		N
G.9.3.1	General requirements		N
G.9.3.2	Cord strain relief		N
G.9.3.2.1	Requirements		N
	Strain relief test force (N)		—
G.9.3.2.2	Strain relief mechanism failure		N
G.9.3.2.3	Cord sheath or jacket position, distance (mm).....		—
G.9.3.2.4	Strain relief comprised of polymeric material		N
G.9.4	Cord Entry		N
G.9.5	Non-detachable cord bend protection		N
G.9.5.1	Requirements		N
G.9.5.2	Mass (g)		—
	Diameter (m).....		—
	Temperature (°C)		—
G.9.6	Cord Replacement		N
G.9.7	Supply wiring space		N
G.9.7.2	Stranded wire		N
G.9.7.2.1	Test with 8 mm strand		N
G.10	Metal oxide varistors		N
G.10.1	General requirements		N
G.10.2	Basic safeguard		N
G.10.3	Supplementary safeguard		N
G.10.3.2	Sudden failure		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.10.3.3	Gradual failure		N
G.11	WOUND COMPONENTS		N
G.11.1	Wire insulation in wound components		N
G.11.1.1	General (thickness (mm), or number of layers		N
G.11.1.2	Solvent-based enamel winding insulation		N
G.11.1.3	Protection against mechanical stress in wound components		N
G.11.2	Additional insulation in wound components		N
G.11.2.1	General requirements		N
G.11.2.2	Dimension (mm) or test		N
G.11.3	Endurance test on wound components		N
G.11.3.1	General test requirements		N
G.11.3.3	Heat run test		N
	Time (s) :		—
	Temperature (°C) :		—
G.11.3.4	Vibration Test		N
G.11.3.5	Wound Components supplied by mains		N
G.12	Circuits generating starting pulses		N
G.12.1	Insulation in circuits generating starting pulses		N
G.12.2	Clearances in circuits generating starting pulses		N
	Spacing or Electric Strength Test (specify option and test results) :		N
G.13	IC current limiters		N
	IC current limiters in PS1 or PS 2 fulfil all the conditions as set out		N
G.14	Test for resistors serving as safeguard		N
G.14.1	General requirements		N
G.14.2	Resistor test		N
G.14.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N
G.14.3.1	General requirements		N
G.14.3.2	Voltage surge test		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.14.3.3	Impulse test		N
G.15	Capacitor and RC units serving as safeguards bridging insulation		P
G.15.1	General requirements		P
G.15.2	Conditioning of capacitors and RC units		P
G.15.3	Rules for selecting capacitors		P
G.16	Optocouplers as safeguards		N
	Optocouplers comply with IEC 60747-5-5 with testing conditions as indicated		N
G.17	Relays		N
G.17.1	General requirements		N
G.17.2	Requirements for relays		N
G.17.3	Overload test		N
G.17.4	Electric strength test		N
G.17.5	Relay controlling mains socket-outlets		N
G.17.6	Test method		N
G.17.7	Compliance		N
G.18	Printed boards		P
G.18.1	General requirements		P
G.18.2	Uncoated printed boards		P
G.18.3	Coated printed boards		N
G.18.4	Insulation between conductors on the same inner surface		P
	Compliance with cemented joint requirements (Specify construction)		N
G.18.5	Insulation between conductors on different surfaces		N
	Distance through insulation		N
	Number of insulation layers (pcs)		—
G.18.6	Tests on coated printed boards		N
G.18.6.1	Sample preparation and preliminary inspection		N
G.18.6.2	Thermal conditioning		N
G.18.6.3	Electric strength test		N
G.18.6.4	Abrasion resistance test		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.19	Coating on components terminals		N
G.19.1	Requirements		N
G.19.2	Compliance and test method		N
G.20	Mains connectors		N
	Mains connector configuration		—
G.21	Liquid filled components		N
G.21.1	General requirements		N
G.21.2	Requirements		N
G.21.3	Compliance and test methods		N
G.21.3.1	Hydrostatic pressure test		N
G.21.3.2	Creep resistance test		N
G.21.3.3	Tubing and fittings compatibility test		N
G.21.3.4	Vibration test		N
G.21.3.5	Thermal cycling test		N
G.21.3.6	Force test		N
G.21.4	Compliance		N
G.22	Connectors other than mains connectors		N
	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		N
H	CRITERIA FOR TELEPHONE RINGING SIGNALS		N
H.1	General requirements		N
H.2	Method A		N
H.3	Method B		N
H.3.1	Ringling signal		N
H.3.1.1	Frequency (Hz)		—
H.3.1.2	Voltage (V)		—
H.3.1.3	Cadence; time (s) and voltage (V)		—
H.3.1.4	Single fault current (mA):.....		—
H.3.2	Tripping device and monitoring voltage		N
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
H.3.2.2	Tripping device		N
H.3.2.3	Monitoring voltage (V)		—
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		P
	General requirements	See separate test report	—
K	SAFETY INTERLOCKS		N
K.1	General requirements		N
K.2	Components of safety interlock safeguard mechanism		N
K.3	Inadvertent change of operating mode		N
K.4	Interlock safeguard override		N
K.5	Fail-safe		N
	Compliance		N
K.6	Mechanically operated safety interlocks		N
K.6.1	Endurance requirement		N
K.6.2	Compliance and Test method		N
K.7	Interlock circuit isolation		N
K.7.1	Separation distance for contact gaps & interlock circuit elements (type & circuit location)		N
K.7.2	Overload test, Current (A)		N
K.7.3	Endurance test		N
K.7.4	Electric strength test		N
L	DISCONNECT DEVICES		P
L.1	General requirements		P
L.1.1	General		P
L.1.2	Permanently connected equipment		P
L.1.3	Parts that remain energized		N
L.1.4	Single phase equipment		N
L.1.5	Three-phase equipment		N
L.1.6	Switches as disconnect devices		P
L.1.7	Plugs as disconnect devices		P



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
L.1.8	Multiple power sources		N
M	BATTERIES AND FUEL CELLS		N
M.1	General requirements		N
M.2	Safety of battery cells and batteries		N
M.2.1	Requirements		N
M.2.2	Compliance and test method (identify method) .. :		N
M.3	Protection in battery circuits		N
M.3.1	Requirements		N
M.3.2	Test method		N
	- Overcharging of a rechargeable battery		N
	- Unintentional charging of a non-rechargeable battery		N
	- Reverse charging of a rechargeable battery		N
	- Excessive discharging rate for any battery		N
M.3.3	Compliance		N
M.4	Endurance of a battery and its enclosure		N
M.4.1	Requirements		N
M.4.2	Compliance and test method		N
	Replaceable battery (instructional safeguard text):		N
M.5	Risk of burn due to short circuit during carrying		N
M.5.1	Requirement		N
M.5.2	Compliance and Test Method (Test of P.2.2.3)		N
M.6	Prevention of short circuits and protection from other effects of electric current		N
M.6.1	Short circuits		N
M.6.1.1	General requirements		N
M.6.1.2	Test method to simulate an internal fault		N
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N
M.6.2	Leakage current (mA)		N
M.7	Risk of explosion from lead acid and NiCd batteries		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
M.7.1	Ventilation preventing explosive gas concentration		N
M.7.2	Compliance and test method		N
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N
M.8.1	General requirements		N
M.8.2	Test method		N
M.8.2.1	General requirements		N
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /s) :		—
M.8.2.3	Correction factors..... :		—
M.8.2.4	Calculation of distance d (mm) :		—
M.9	Preventing electrolyte spillage		N
M.9.1	Protection from electrolyte spillage		N
M.9.2	Tray for preventing electrolyte spillage		N
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N
N	ELECTROCHEMICAL POTENTIALS		N
	Metal(s) used		—
O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		P
	Figures O.1 to O.20 of this Annex applied..... :		—
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS, FOREIGN LIQUIDS, AND SPILLAGE OF INTERNAL LIQUIDS		N
P.1	General requirements		N
P.2	Safeguards against entry of solid foreign objects		N
P.2.1	Top and side openings		N
	Location and Dimensions (mm)		—
P.2.2	Transportable equipment		N
P.2.2.1	Openings in transportable equipment provided with energy storage devices, such as batteries		N
P.2.2.2	Transportable equipment without batteries and having accessible floating conductive parts (identification of supplementary safeguard)		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
P.2.2.3	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)		N
P.3	Safeguards against spillage of internal liquids		N
P.3.1	General requirements		N
P.3.2	Determination of spillage consequences		N
	Non-transportable (identification of safeguards) ..		N
	Transportable (identification of safeguards)		N
Q	INTERCONNECTION WITH BUILDING WIRING		N
Q.1	Limited power sources		N
	- Inherently limited output		N
	- Impedance limited output		N
	- Regulating network limited output under normal operating and simulated single fault condition		N
	- Overcurrent protective device limited output		N
	- an IC current limiter complying with G.13		N
Q.2	Compliance and test method		N
Q.3	Test for external circuits – paired conductor cable		N
	Maximum output current (A)		—
	Current limiting method		N
R	LIMITED SHORT CIRCUIT TEST		N
R.1	General requirements		N
R.2	Determination of the overcurrent protective device and circuit		N
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N
	Samples, material		—
	Wall thickness (mm).....		—
	Conditioning (°C).....		—



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Test flame according to IEC 60695-11-5 with conditions as set out		N
	- Material not consumed completely		N
	- Material extinguishes within 30s		N
	- No burning of layer or wrapping tissue		N
S.2	Flammability test for fire enclosure and fire barrier integrity		N
	Samples, material		—
	Wall thickness (mm).....		—
	Conditioning (°C).....		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N
	Test specimen does not show any additional hole		N
S.3	Flammability test for the bottom of a fire enclosure		N
	Samples, material		—
	Wall thickness (mm).....		—
	Cheesecloth did not ignite		N
S.4	Flammability classification of materials		N
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N
	Samples, material		—
	Wall thickness (mm).....		—
	Conditioning (test condition), (°C).....		—
	Test flame according to IEC 60695-11-20 with conditions as set out		N
	- After every test specimen was not consumed completely		N
	- After fifth flame application, flame extinguished within 1 min		N
T	MECHANICAL STRENGTH TESTS		P
T.1	General requirements		P
T.2	Steady force test, 10 N		P
T.3	Steady force test, 30 N		N



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
T.4	Steady force test, 100 N		P
T.5	Steady force test, 250 N		N
T.6	Enclosure impact test		N
	Fall test		N
	Swing test		N
T.7	Drop test		P
T.8	Stress relief test		P
T.9	Glass breakage		N
T.9.1	General requirements		N
T.9.2	Impact test and compliance		N
	Impact energy (J) :		—
T.9.3	Fragmentation test and compliance		N
T.10	Test for telescoping or rod antennas		N
	Torque value (Nm) :		—
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N
U.1	General requirements		N
U.2	Compliance and test method for non-intrinsically protected CRTs		N
U.3	Protective Screen		N



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

ANNEX 1: components					P
Object/Part No.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity

5.4.1.5, 6.3.2, 9.0, B.2.6, B.2.7	TABLE: Thermal requirements					P	
	Supply voltage (V)	157.5V	264V			—	
	Ambient T _{min} (°C)	25.0	25.0			—	
	Ambient T _{max} (°C)	25.2	25.1			—	
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)	
Plug holder (inside)		34.6		35.4		70	
PCB		48.3		48.7		130	
Enclosure		34.1		35.0		90	
Ambient		25.5	--	25.0	--	--	
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
Supplementary information:							



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.11.3	TABLE: Ball pressure test of thermoplastics		P
	Allowed impression diameter (mm)	≤ 2 mm	—
Part	Test temperature (°C)	Impression diameter (mm)	
PCB	125	0.6	
Enclosure	75	0.9	
Supplementary information:			

5.4.2, 5.4.3, 5.4.4.5 a), b)	TABLE: Minimum Clearances/Creepage distance							N
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹⁾	Required cl (mm)	cl (mm) ²⁾	Required ³⁾ cr (mm)	cr (mm)	
Supplementary information:								
Note 1: Only for frequency above 30 kHz								
Note 2: See table 5.4.2.8 if this is based on electric strength test (5.4.2.8)								
Note 3: Provide Material Group								

5.4.2.8	TABLE: Clearances based on electric strength test			N/A
Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No	
--	--	--	--	
Supplementary information:				

5.4.4.2, 5.4.4.5c), 5.5.2.7	TABLE Distance through insulation measurements				P
Distance through insulation di at/of:	Up (V)	Test voltage (V)	Required di (mm)	di (mm)	
Enclosure	420	1500	0.4	1.5	
Supplementary information:					

5.4.11	TABLE: Electric strength tests			P
Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
Functional:			
--		--	--
Basic/supplementary:			
--		--	--
Reinforced:			
Input to output	AC	4000	No
Input to enclosure	AC	4000	No
Routine Tests:			
--	--	--	--
--	--	--	--
Supplementary information:			

5.6.6.4	TABLE: Resistance of protective conductors and terminations				N/A
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
--	--	--	--	--	
Supplementary information:					

5.7.4.1	TABLE: Unearthed conductive parts accessible for ordinary person		N/A
Supply voltage (V):.....:	--		—
Earthed neutral conductor [Voltage differences less than 1% or more]:.....:	--		—
Specify method used for measurement as described in IEC60990, sub-clause 4.3:.....:	--		—

5.7.4.1a)	TABLE: Unearthed conductive parts accessible (for ordinary person)		
Unearthed accessible part	Prospective touch voltage (V)	Touch current (mA)	
--	--	--	
--	--	--	
After fault of the applicable basic safeguard			
--	--	--	
--	--	--	
After fault of the applicable supplementary safeguard			



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
--		--	--
--		--	--
Supplementary Information: For fault conditions, identify the safeguard that was faulted e.g., "Accessible Part/basic insulation."			
5.7.4.1b)	TABLE: Unearthed conductive parts accessible (>ES2 voltage limits)		N/A
Unearthed accessible part, at which the prospective touch voltage exceeds the ES2 limits		Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		1	--
		2	--
		3	--
		4	--
		5	--
		6	--
		8	--
Supplementary Information: If touch current measurements are not needed, indicate "N/A" in the space provided. IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable. If the touch current did not exceed ES2 limits, indicate, "PASS."			

5.7.4.2	TABLE: Unearthed conductive parts accessible to instructed persons		N/A
Supply voltage (V):.....:	--		--
Earthed neutral conductor [Voltage differences less than 1% or more]:.....:	--		--
Specify method used for measurement as described in IEC60990, sub-clause 4.3	--		--
5.7.4.2 a)	TABLE: Unearthed conductive parts accessible to instructed persons		N/A
Unearthed accessible part	Prospective touch voltage (V)	Touch current (mA)	
--	--	--	
--	--	--	
--	--	--	
--			



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.7.2 b)	TABLE: Unearthed conductive parts accessible (>ES2 voltage limits)		N/A
Unearthed accessible part, at which the prospective touch voltage exceeds the ES2 limits		Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		1	--
		2	--
		3	--
		4	--
		5	--
		6	--
		8	--
<p>Supplementary Information:</p> <p>If touch current measurements are not needed, indicate "N/A" in the space provided.</p> <p>IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.</p> <p>If the touch current did not exceed ES2 limits, indicate, "PASS."</p>			

5.7.5	TABLE: Earthed accessible conductive part		N/A
Supply voltage	--		—
Earthed neutral conductor [Voltage differences less than 1% or more]	--		—
Specify method used for measurement as described in IEC60990, sub-clause 4.3	--		—
Earthed accessible conductive part	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)	
	1		--



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
		2*	--
		3	--
		4	--
		5	--
		6	--
		8	--
Supplementary Information: IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable. (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.			

8.5	TABLE: Fan Blade Classification		N/A
Variable	Value		
Mass, m	kg		
Fan blade radius, r	mm		
Rotational speed, N	rpm		
K factor (figure 47), K			
Classification formula	$\frac{N}{15,000} + \frac{K}{2,400} \leq 1$	$\frac{N}{22,000} + \frac{K}{3,600} \leq 1$	
Classification calculation			
Classification: MS			
Supplementary information:			

8.5.5.2.1	TABLE: Rotating Solid Media		N/A
Variable	Value		
Media thickness (mm)			
Total media mass, M (kg).....			
Constant, S	0,250 (no deflector)	0,125 (deflector)	
Velocity, v (m/s)			



EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Media outer radius, R_o (m)..... :		
	Force $\{F = S \times (mv^2)/R_o\}$ (N) :		
	Smallest dia of media, X (mm)..... :		
	Test Result..... :		
Supplementary information:			

8.5.5.2.2	TABLE: High Pressure Lamp			N/A
Description	Values	Energy Source Classification		
Lamp type		—		
Manufacturer		—		
Cat no.....		—		
Pressure (cold) (MPa)		MS_		
Pressure (operating) (MPa).....		MS_		
Operating time (minutes).....		—		
Explosion method		—		
Max particle length escaping enclosure (mm) .:		MS_		
Max particle length beyond 1 m (mm)		MS_		
Overall result				
Supplementary information:				

B.2.5	TABLE: Input test						P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
240	2.9	3	-	--	F1	-	Maximum normal load
Supplementary information:							
Equipment may be have rated current or rated power or both. Both should be measured							

B.3 & B.4	TABLE: Abnormal operating and fault condition tests	P
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EN 62368-1								
Clause	Requirement + Test					Result - Remark		Verdict
Ambient temperature (°C)					25.3°C		—	
Power source for EUT: Manufacturer, model/type, output rating ...					--		—	
Component No.	Abnormal/Fault	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
C1	S-C	264V	1s	F1	0	--	--	Fuse open, No hazard.
Supplementary information: Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.								



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

ANNEX A:

Photo-documentation



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

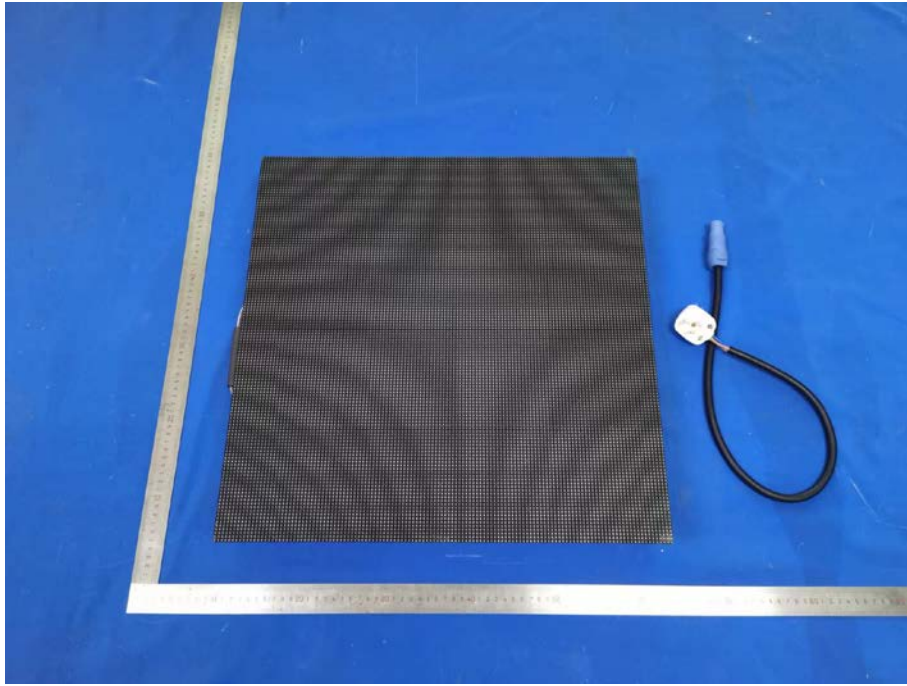


Photo 1 General appearance of the EUT

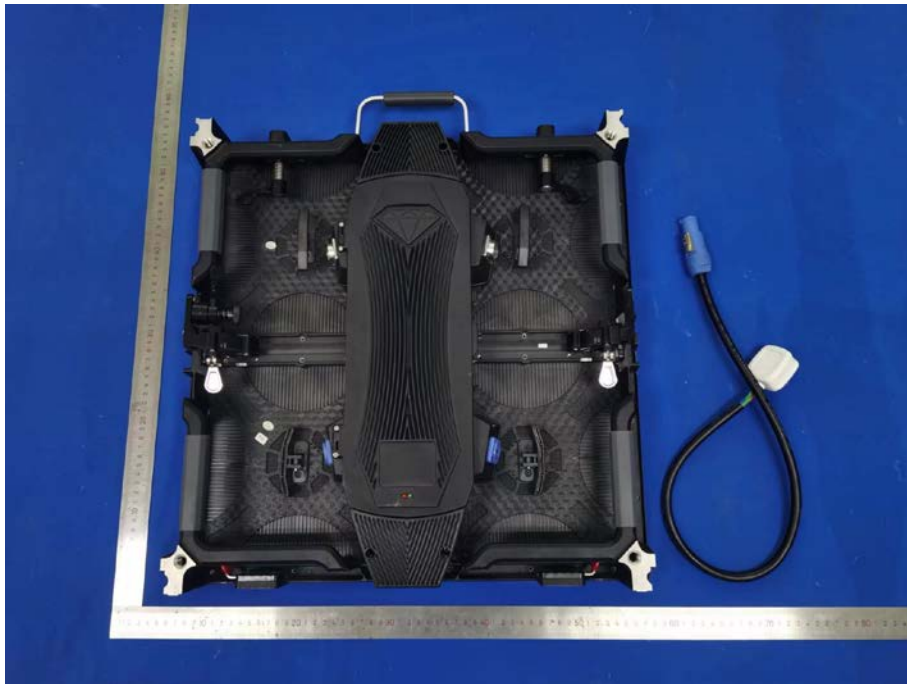


Photo 2 General appearance of the EUT



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

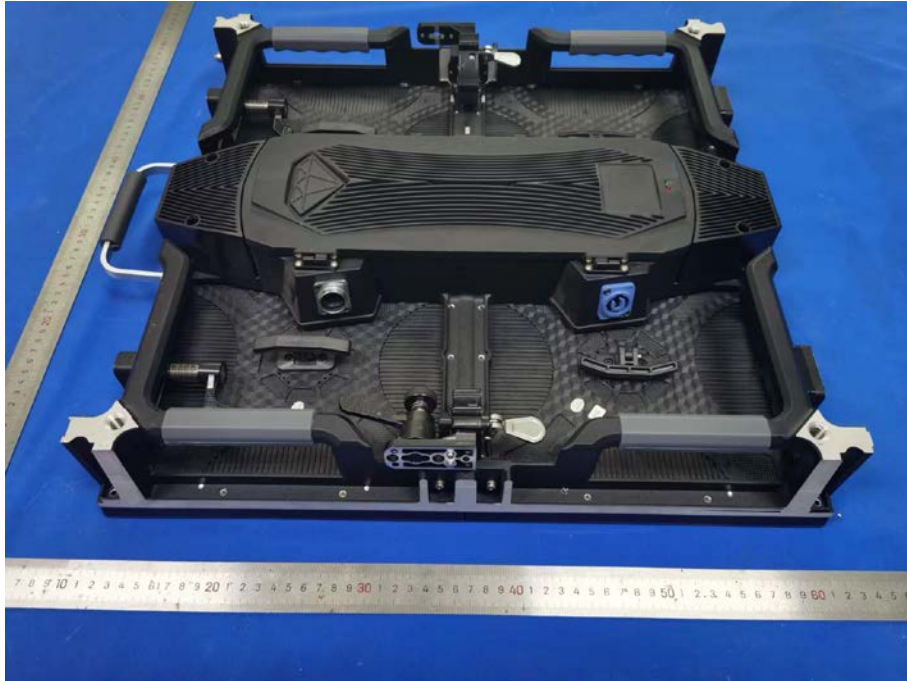


Photo3 General appearance of the EUT



Photo4 General appearance of the EUT