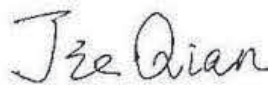
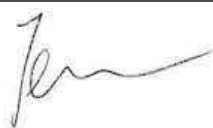




Test Report issued under the responsibility of:



TEST REPORT IEC 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Report Number	E323749-A6002-CB-1
Date of issue.....	2019-08-06
Total number of pages	72
Applicant's name.....	GLOBAL SCANNING SUZHOU CO LTD
Address	BUILDING 39, DONGJING INDUSTRIAL ZONE NO. 9 DONGFU ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215123 CHINA CHINA
Name of Test Laboratory preparing the Report	UL-CCIC Company Limited No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China
Test specification:	
Standard	IEC 62368-1:2014 (Second Edition)
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.....	IEC62368_1B
Test Report Form(s) Originator	UL(US)
Master TRF.....	2014-03
Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed. 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. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test Item description	:	Wide Format Scanner	
Trade Mark	:	HP or Contex	
Manufacturer	:	GLOBAL SCANNING DENMARK A/S SVANEVANG 2 3450 ALLEROED DENMARK	
Model/Type reference	:	HP: BCLAA-1915; Contex: RB67G, RC67G, RC67R	
Ratings	:	100 - 240Vac, 50 - 60Hz, 2A, 140W	
Testing procedure and testing location:			
☒	CB Testing Laboratory:		
Testing location/ address	:	UL-CCIC Company Limited, No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China	
Tested by (name + signature)	:	Jie Qian / Project Handler	
Approved by (name + signature)	:	Jesson Chen / Reviewer	
☐	Testing procedure: CTF Stage 1		
Testing location/ address	:		
Tested by (name + signature)	:		
Approved by (name + signature)	:		
☐	Testing procedure: CTF Stage 2		
Testing location/ address	:		
Tested by (name + signature)	:		
Witnessed by (name + signature)	:		
Approved by (name + signature)	:		
☐	Testing procedure: CTF Stage 3		
☐	Testing procedure: CTF Stage 4		
Testing location/ address	:		
Tested by (name + signature)	:		
Witnessed by (name + signature)	:		
Approved by (name + signature)	:		

Supervised by (name + signature)		
--	--	--

List of Attachments (including a total number of pages in each attachment): National Differences (30 pages) Enclosures (56 pages)	
Summary of testing:	
Tests performed (name of test and test clause): STEADY FORCE TEST, 250 N (4.4.4.2, ANNEX T.5) STEADY FORCE TEST, 30 N (4.4.4.2, ANNEX T.3) IMPACT TEST (4.4.4.4, ANNEX T.6) STRESS RELIEF TEST (4.4.4.7, ANNEX T.8) ELECTRIC STRENGTH TEST (5.4.9) RESISTANCE OF THE PROTECTIVE BONDING SYSTEM (5.6.6.2) PROSPECTIVE TOUCH VOLTAGE AND TOUCH CURRENT MEASUREMENT (5.7) NORMAL OPERATING CONDITIONS TEMPERATURE TEST (6.3) STATIC STABILITY (8.6.2) RELOCATION STABILITY TEST (8.6.3.2) HORIZONTAL FORCE TEST (8.6.5) WHEEL OR CASTER SECUREMENT (8.9) CART, STAND OR CARRIER LOADING (8.10.3) CART, STAND OR CARRIER IMPACT (8.10.4) CART, STAND OR CARRIER MECHANICAL STABILITY (8.10.5) INPUT TEST: SINGLE PHASE (B.2.5) NORMAL OPERATING CONDITIONS TEMPERATURE MEASUREMENT (B.2.6) SIMULATED ABNORMAL OPERATING CONDITIONS (B.3) SIMULATED SINGLE FAULT CONDITIONS (B.4) RUNNING OVERLOAD TEST FOR D.C. MOTORS (ANNEX G.5.4.5) LOCKED-ROTOR OVERLOAD TEST FOR D.C. MOTORS (ANNEX G.5.4.6) LIMITED POWER SOURCE (ANNEX Q.1)	Testing Location: CBTL: UL-CCIC Company Limited, No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China

Summary of compliance with National Differences:**List of countries addressed:** AU,NZ, JP, EU Group Differences, US,CA

☒ **The product fulfils the requirements of:** CAN/CSA C22.2 No. 62368-1-14, EN 62368-1:2014/A11:2017, UL 62368-1, Second Edition, AS/NZS 62368.1:2018., IEC 62471:2006

Copy of Marking Plate - Refer to Enclosure titled Marking Plate for copy.

TEST ITEM PARTICULARS:	
Classification of use by	Ordinary person Children likely to be present
Supply Connection	AC Mains
Supply % Tolerance	+10%/-10%
Supply Connection – Type	pluggable equipment type A - appliance coupler
Considered current rating of protective device as part of building or equipment installation	16 or 20 (for building); 6.3 (for equipment in SPS) A;
Equipment mobility	movable
Over voltage category (OVC)	OVC II
Class of equipment	Class I
Access location	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified maximum operating ambient (°C)	45
IP protection class	IPX0
Power Systems	TN
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	63(with High Stand); 83.26(with Adjustable stand(HL22H))
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..... :	2018-06-21
Date (s) of performance of tests..... :	2018-06-21 to 2019-08-02
GENERAL REMARKS:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2-1:	

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☒ Yes ☐ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	GLOBAL SCANNING SUZHOU CO LTD BUILDING 39, DONGJING INDUSTRIAL ZONE NO. 9 DONGFU ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215123 CHINA GLOBAL SCANNING DENMARK A/S SVANEVANG 2 3450 ALLEROED DENMARK
GENERAL PRODUCT INFORMATION:	
Report Summary	
All applicable tests according to the referenced standard(s) have been carried out.	
Product Description	
Equipment under test (EUT) is a wide format scanner, which consists of a scanner and an optional certified Panel PC and its certified external Power Supply. The scanner consists of a metal enclosure (as fire, mechanical and electrical enclosure), plastic enclosure (as mechanical and electrical enclosure), employs built-in certified power supply, and printer mechanism, associated PWB with ES1 circuits. The labels for models RC67G and RC67R are same as model RB67G except for model name. All tests were conducted on model RB67G, if not specified elsewhere.	
Model Differences	
See Enclosure Id. 07-03 for details.	
Additional application considerations – (Considerations used to test a component or sub-assembly) -	
N/A	
Technical Considerations	
• The equipment disconnect device is considered to be : Appliance inlet • The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS) : all output connectors • The Risk Group of a lamp or lamp system (including LEDs) is : Exempt • The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual	

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.)	
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input ES1	
Source of electrical energy	Corresponding classification (ES)
The circuits connected to AC mains	ES3
Power supply module output	ES1
All output connectors	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2	
Source of power or PIS	Corresponding classification (PS)
All circuits except for output connectors	PS3
Power supply module output	PS3
All output connectors	PS2
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component Glycol	
Source of hazardous substances	Corresponding chemical
N/A	N/A
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2	
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
System fan	MS1
Equipment mass	MS3
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1	
Source of thermal energy	Corresponding classification (TS)
Metal enclosure	TS1
Plastic enclosure	TS1

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
Radiation (Clause 10) (Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	Corresponding classification (RS)
Scanner screen	RS1

ENERGY SOURCE DIAGRAM
Indicate which energy sources are included in the energy source diagram. Insert diagram below
☐ ES☐ PS☐ MS☐ TS☐ RS

OVERVIEW OF EMPLOYED SAFEGUARDS				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	ES3: The circuits connected to AC mains	N/A	N/A	Enclosure, certified power supply module
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
Enclosure	PS3 circuits	See 6.3	Metal	N/A
Printed Wiring Board (PWB)	PS3 circuits	See 6.3	V-1 min.	N/A
Internal plastic part materials	PS3 circuits	See 6.3	V-2 or better	N/A
Internal or External wiring	PS3 circuits	N/A	N/A	See 6.5
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	MS3: Equipment mass	N/A	N/A	See 8.6
9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault				

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Pass
4.1.1	Acceptance of materials, components and subassemblies		Pass
4.1.2	Use of components		Pass
4.1.3	Equipment design and construction		Pass
4.1.15	Markings and instructions	(See Annex F)	Pass
4.4.4	Safeguard robustness		Pass
4.4.4.2	Steady force tests	(See Annex T.5)	Pass
4.4.4.3	Drop tests		N/A
4.4.4.4	Impact tests	(See Annex T.6)	Pass
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	(See Annex T.3)	Pass
4.4.4.6	Glass Impact tests	Platen glass used on scanner.	N/A
4.4.4.7	Thermoplastic material tests	70°C	Pass
4.4.4.8	Air comprising a safeguard		N/A
4.4.4.9	Accessibility and safeguard effectiveness	Except for PS3, no class 3 energy source is generated within the equipment and all other safeguards remain effective.	Pass
4.5	Explosion		Pass
4.6	Fixing of conductors		Pass
4.6.1	Fix conductors not to defeat a safeguard		Pass
4.6.2	10 N force test applied to		N/A
4.7	Equipment for direct insertion into mains socket - outlets		N/A
4.7.2	Mains plug part complies with the relevant standard		N/A
4.7.3	Torque (Nm)		N/A
4.8	Products containing coin/button cell batteries	No batteries.	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery		—
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		Pass
5.2.1	Electrical energy source classifications	Class I equipment is intended to be supplied by built-in switching power supply modules with ES1 output and no ES2 or ES3 voltage is generated within unit.	Pass
5.2.2	ES1, ES2 and ES3 limits		N/A
5.2.2.2	Steady-state voltage and current.....		N/A
5.2.2.3	Capacitance limits		N/A
5.2.2.4	Single pulse limits.....		N/A
5.2.2.5	Limits for repetitive pulses.....		N/A
5.2.2.6	Ringing signals		N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources		Pass
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		Pass
5.3.2.1	Accessibility to electrical energy sources and safeguards		Pass
5.3.2.2	Contact requirements		Pass
	a) Test with test probe from Annex V	Figure V.1 used.	Pass
	b) Electric strength test potential (V).....		N/A
	c) Air gap (mm)		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Pass
5.4.1.2	Properties of insulating material		Pass
5.4.1.3	Humidity conditioning	Evaluated as part of certified switching power supply module.	Pass
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Pass
5.4.1.5	Pollution degree.....	2	—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	Evaluated as part of certified switching power supply module.	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat softening temperature		N/A
5.4.1.10.3	Ball pressure		N/A
5.4.2	Clearances		Pass
5.4.2.2	Determining clearance using peak working voltage		Pass
5.4.2.3	Determining clearance using required withstand voltage		Pass
	a) a.c. mains transient voltage	2500V	—
	b) d.c. mains transient voltage	—	—
	c) external circuit transient voltage	—	—
	d) transient voltage determined by measurement... : :	—	—
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages.....		N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	Pass
5.4.3.1	General		N/A
5.4.3.3	Material Group	IIIa or IIIb	—
5.4.4	Solid insulation	All critical distances through insulation are covered in power supply evaluation.	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material..... : :		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz..... :		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (M Ω) :		—
5.4.6	Insulation of internal wire as part of supplementary safeguard :		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning	Evaluated as part of certified switching power supply module.	Pass
	Relative humidity (%) :	93	—
	Temperature (°C) :	40	—
	Duration (h) :	120	—
5.4.9	Electric strength test..... :	(See appended table 5.4.9)	Pass
5.4.9.1	Test procedure for a solid insulation type test		Pass
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test..... :		N/A
5.4.10.2.3	Steady-state test :		N/A
5.4.11	Insulation between external circuits and earthed circuitry :		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U_{op} (V) :		—
	Nominal voltage U_{peak} (V) :		—
	Max increase due to variation U_{sp} :		—
	Max increase due to ageing ΔU_{sa} :		—
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards		Pass
5.5.1	General	Evaluated as part of certified switching power supply module.	Pass
5.5.2	Capacitors and RC units		Pass
5.5.2.1	General requirement		Pass
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	Pass
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable		N/A
5.6	Protective conductor		Pass
5.6.2	Requirement for protective conductors	Accessible parts are earthed. Protective earthing provided as one level of protection against electric shock.	Pass
5.6.2.1	General requirements		Pass
5.6.2.2	Colour of insulation		Pass
5.6.3	Requirement for protective earthing conductors	Considered for USA only.	Pass
	Protective earthing conductor size (mm ²)	0.75mm ² ; 18 AWG	—
5.6.4	Requirement for protective bonding conductors		Pass
5.6.4.1	Protective bonding conductors		Pass
	Protective bonding conductor size (mm ²).....	0.75mm ² ; 18 AWG	—
	Protective current rating (A)	20	—
5.6.4.3	Current limiting and overcurrent protective devices		Pass
5.6.5	Terminals for protective conductors	The earthing terminal in the appliance inlet is regarded as the main protective earthing terminal.	Pass
5.6.5.1	Requirement		N/A
	Conductor size (mm ²), nominal thread diameter (mm).....		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.6.5.2	Corrosion		Pass
5.6.6	Resistance of the protective system		Pass
5.6.6.1	Requirements		Pass
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	Pass
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and protective conductor current		Pass
5.7.2	Measuring devices and networks		Pass
5.7.2.1	Measurement of touch current	Instrument indicating peak voltage used.	Pass
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		Pass
	System of interconnected equipment (separate connections/single connection)	Separate connection.	—
	Multiple connections to mains (one connection at a time/simultaneous connections)	N/A	—
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	Pass
5.7.5	Protective conductor current		Pass
	Supply Voltage (V)	264	—
	Measured current (mA)	1.18mA _{peak}	—
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA)		N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)		N/A
6	ELECTRICALLY- CAUSED FIRE		Pass
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Pass
6.2.2	Power source circuit classifications		Pass
6.2.2.1	General	All circuits are considered PS3 except for the circuits of output connector complied with Q.1.	Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.2	Power measurement for worst-case load fault.....:	See 6.2.2	N/A
6.2.2.3	Power measurement for worst-case power source fault	See 6.2.2	N/A
6.2.2.4	PS1		N/A
6.2.2.5	PS2		N/A
6.2.2.6	PS3	See 6.2.2.	Pass
6.2.3	Classification of potential ignition sources		Pass
6.2.3.1	Arcing PIS	All connectors used within equipment are considered as arcing PIS.	Pass
6.2.3.2	Resistive PIS	All components used within equipment are considered as resistive PIS.	Pass
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Pass
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Pass
6.3.1 (b)	Combustible materials outside fire enclosure	(See appended table 4.1.2)	Pass
6.4	Safeguards against fire under single fault conditions		Pass
6.4.1	Safeguard Method	Control of fire spread	Pass
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards		N/A
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		Pass
6.4.5.2	Supplementary safeguards	Components other than PCB and wires are: - mounted on PCB rated V-1 or better, or - made of V-2/VTM-2 or better. (See appended tables 4.1.2 and Annex G)	Pass
6.4.6	Control of fire spread in PS3 circuit		Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		Pass
6.4.8.1	Fire enclosure and fire barrier material properties		Pass
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	The fire enclosure material is metal.	Pass
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		Pass
6.4.8.3.1	Fire enclosure and fire barrier openings		Pass
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	Side: Rectangular openings provided, each max. 11 x 8.6 max.; Rectangular openings provided, each max. 4.8 x 32.8 max. No openings within fire cone top area of PIS of PS3 circuits.	Pass
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	No openings within fire cone bottom area of PIS of PS3 circuits.	Pass
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c).....		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Metal enclosure used.	Pass
6.5	Internal and external wiring		Pass
6.5.1	Requirements		Pass
6.5.2	Cross-sectional area (mm ²)	VW-1 wires used.	—
6.5.3	Requirements for interconnection to building wiring		N/A
6.6	Safeguards against fire due to connection to additional equipment		Pass
	External port limited to PS2 or complies with Clause Q.1	See appended table Annex Q	Pass

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

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

8	MECHANICALLY-CAUSED INJURY		Pass
8.1	General		Pass
8.2	Mechanical energy source classifications		Pass
8.3	Safeguards against mechanical energy sources		Pass
8.4	Safeguards against parts with sharp edges and corners		N/A
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	System fan: K=642.735, m=0.1 kg, r=46 mm, N=2250 rpm	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard :	N/A	—
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks..... :		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard :		—
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)..... :		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test :		N/A
8.6	Stability		Pass
8.6.1	Product classification		Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard	N/A	—
8.6.2	Static stability		Pass
8.6.2.2	Static stability test		Pass
	Applied Force.....	For High Stand: 123.5N; For Adjustable stand: 163.2 N	—
8.6.2.3	Downward Force Test	Floor-standing unit does not overbalance when a downward force of 800 N is applied.	Pass
8.6.3	Relocation stability test		Pass
	Unit configuration during 10° tilt	Unit does not tip over during the test.	—
8.6.4	Glass slide test	Floor-standing equipment.	N/A
8.6.5	Horizontal force test (Applied Force)	100	Pass
	Position of feet or movable parts	One horizontal sides	—
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force		N/A
8.8	Handles strength		N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements		Pass
8.9.1	Classification		Pass
8.9.2	Applied force	20N	—
8.10	Carts, stands and similar carriers		Pass
8.10.1	General		Pass
8.10.2	Marking and instructions		N/A
	Instructional Safeguard		—
8.10.3	Cart, stand or carrier loading test and compliance		Pass
	Applied force	440N	—
8.10.4	Cart, stand or carrier impact test		Pass
8.10.5	Mechanical stability		Pass
	Applied horizontal force (N).....	100N	—
8.10.6	Thermoplastic temperature stability (°C)	70°C	Pass
8.11	Mounting means for rack mounted equipment		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable <i>N</i>		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas		N/A
	Button/Ball diameter (mm)		—

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

10	RADIATION		Pass
10.2	Radiation energy source classification		Pass
10.2.1	General classification	Exempt, see enclosure 7-02 for details.	Pass
10.3	Protection against laser radiation		N/A
	Laser radiation that exists in the equipment:		—
	Normal, abnormal, single-fault		N/A
	Instructional safeguard		—
	Tool		—
10.4	Protection against visible, infrared, and UV radiation		N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person		N/A
	Personal safeguard (PPE) instructional safeguard		—
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.d)	Normal, abnormal, single-fault conditions		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque :		N/A
10.4.1.f)	UV attenuation :		N/A
10.4.1.g)	Materials resistant to degradation UV		N/A
10.4.1.h)	Enclosure containment of optical radiation :		N/A
10.4.1.i)	Exempt Group under normal operating conditions :		N/A
10.4.2	Instructional safeguard :		N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards		N/A
	Instructional safeguard for skilled person		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation.....		—
	Abnormal and single-fault condition		N/A
	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output, dB(A)		N/A
	Output voltage, unweighted r.m.s.		N/A
10.6.4	Protection of persons		N/A
	Instructional safeguards		N/A
	Equipment safeguard prevent ordinary person to RS2		—
	Means to actively inform user of increase sound pressure		—

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

B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Pass
B.2	Normal Operating Conditions		Pass
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Pass
	Audio Amplifiers and equipment with audio amplifiers.....		N/A
B.2.3	Supply voltage and tolerances		Pass
B.2.5	Input test	(See appended table B.2.5)	Pass
B.3	Simulated abnormal operating conditions		Pass
B.3.1	General requirements	(See appended table B.3)	Pass
B.3.2	Covering of ventilation openings		Pass
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector.....		N/A
B.3.5	Maximum load at output terminals.....		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions		Pass
B.4	Simulated single fault conditions		Pass
B.4.2	Temperature controlling device open or short-circuited		N/A
B.4.3	Motor tests		Pass
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See appended table B.4)	Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.4.4	Short circuit of functional insulation		N/A
B.4.4.1	Short circuit of clearances for functional insulation		N/A
B.4.4.2	Short circuit of creepage distances for functional insulation		N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		N/A
B.4.6	Short circuit or disconnect of passive components		N/A
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		Pass
B.4.9	Battery charging under single fault conditions		N/A
C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V)		—
	Rated load impedance (Ω)		—
E.2	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Pass
F.1	General requirements		Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Instructions – Language	Operating / safety instructions made available to the user. Safety instructions in English. Other languages will be provided when submitted for National Approval.	—
F.2	Letter symbols and graphical symbols		Pass
F.2.1	Letter symbols according to IEC60027-1		Pass
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Pass
F.3	Equipment markings		Pass
F.3.1	Equipment marking locations		Pass
F.3.2	Equipment identification markings		Pass
F.3.2.1	Manufacturer identification	See copy of marking plate	—
F.3.2.2	Model identification	See copy of marking plate	—
F.3.3	Equipment rating markings		Pass
F.3.3.1	Equipment with direct connection to mains		Pass
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage	See copy of marking plate	—
F.3.3.4	Rated voltage	See copy of marking plate	—
F.3.3.5	Rated frequency.....	See copy of marking plate	—
F.3.3.6	Rated current or rated power	See copy of marking plate	—
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		Pass
F.3.5.1	Mains appliance outlet and socket-outlet markings.....		N/A
F.3.5.2	Switch position identification marking	on and off switch symbol complied with IEC 60417.	Pass
F.3.5.3	Replacement fuse identification and rating markings.....		N/A
F.3.5.4	Replacement battery identification marking.....		N/A
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		Pass
F.3.6.1	Class I Equipment		Pass
F.3.6.1.1	Protective earthing conductor terminal		Pass
F.3.6.1.2	Neutral conductor terminal		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking :		—
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking		Pass
F.3.10	Test for permanence of markings	Approved label used.	Pass
F.4	Instructions		Pass
	a) Equipment for use in locations where children not likely to be present - marking		N/A
	b) Instructions given for installation or initial use		Pass
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area		N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		Pass
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment		Pass
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards		Pass
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		Pass
G	COMPONENTS		Pass
G.1	Switches		Pass
G.1.1	General requirements		Pass
G.1.2	Ratings, endurance, spacing, maximum load		Pass
G.2	Relays		N/A
G.2.1	General requirements		N/A
G.2.2	Overload test		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs		N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)		—
	Single Fault Condition		—
	Test Voltage (V) and Insulation Resistance (Ω) ..		—
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices	In certified power supply.	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.5		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors		Pass
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration	Comply with IEC 60320	Pass
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		Pass
G.5	Wound Components		Pass
G.5.1	Wire insulation in wound components	Evaluated as part of certified switching power supply module.	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°		N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s)		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature (°C)		—
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)		N/A
	Position		—
	Method of protection		—
G.5.3.2	Insulation		N/A
	Protection from displacement of windings		—
G.5.3.3	Overload test.....		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		Pass
G.5.4.1	General requirements		Pass
	Position	DC Gear Motor	—
G.5.4.2	Test conditions		Pass
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days)		—
G.5.4.5	Running overload test for d.c. motors in secondary circuits		Pass
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V).....		—
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A
	Electric strength test (V).....		—
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		Pass
G.5.4.6.2	Tested in the unit	7 h	Pass
	Maximum Temperature	Motor body: 48.0°C; Motor coil: 72.4°C	Pass
	Electric strength test (V)		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A
	Electric strength test (V).....		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage		—
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Type		—
	Rated current (A)		—
	Cross-sectional area (mm ²), (AWG)		—
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		—
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm) ...		—
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		—
	Diameter (m)		—
	Temperature (°C)		—
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.		N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA		—
G.9.1 d)	IC limiter output current (max. 5A)		—
G.9.1 e)	Manufacturers' defined drift		—
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A
	Type test voltage V _{ini}		—
	Routine test voltage, V _{ini,b}		—
G.13	Printed boards		Pass
G.13.1	General requirements		Pass
G.13.2	Uncoated printed boards		Pass
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with cemented joint requirements (Specify construction)		—
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation.....		N/A
	Number of insulation layers (pcs)		—
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16 a)	Humidity treatment in accordance with sc 5.4.8 – 120 hours		N/A
G.16 b)	Impulse test using circuit 2 with U_c = to transient voltage		N/A
G.16 C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
G.16 C2)	Test voltage		—
G.16 D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A
G.16 D2)	Capacitance		—
G.16 D3)	Resistance		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
H	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		—
H.3.1.2	Voltage (V)		—
H.3.1.3	Cadence; time (s) and voltage (V)		—
H.3.1.4	Single fault current (mA):		—
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		—
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
	General requirements		N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		Pass
L.1	General requirements	Appliance inlet	Pass

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

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /s)		—
M.8.2.3	Correction factors		—
M.8.2.4	Calculation of distance d (mm)		—
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A
N	ELECTROCHEMICAL POTENTIALS		Pass
	Metal(s) used	Metal alloy utilized and electrochemical potential is less than 0.6V.	—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
	Figures O.1 to O.20 of this Annex applied..... :		—
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		Pass
P.1	General requirements		Pass
P.2.2	Safeguards against entry of foreign object		Pass
	Location and Dimensions (mm) :	Side:Rectangular openings provided, each max. 11 x 8.6 max.; Rectangular openings provided, each max. 4.8 x 36.8 max. No bare conductive parts of ES3 or PS3 circuit.	—
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts..... :		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard) :		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C)..... :		—
	Tr (°C) :		—
	Ta (°C) :		—
P.4.2 b)	Abrasion testing :		N/A
P.4.2 c)	Mechanical strength testing :		N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		Pass
Q.1	Limited power sources		Pass
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		Pass

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- Regulating network limited output under normal operating and simulated single fault condition	Display LVDS port	Pass
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		Pass
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		—
	Current limiting method.....		—
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (°C)		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (°C)		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Wall thickness (mm)		—
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (test condition), (°C).....		—
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
T	MECHANICAL STRENGTH TESTS		Pass
T.1	General requirements		Pass
T.2	Steady force test, 10 N	No impact on cl&cr.	Pass
T.3	Steady force test, 30 N	(See appended table T.3)	Pass
T.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N	(See appended table T.5)	Pass
T.6	Enclosure impact test	(See appended table T.6)	Pass
	Fall test		Pass
	Swing test		N/A
T.7	Drop test		N/A
T.8	Stress relief test		N/A
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		—
	Height (m).....		—
T.10	Glass fragmentation test		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen :		N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		Pass
V.1	Accessible parts of equipment		Pass
V.2	Accessible part criterion		Pass

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

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
1. Build-in Power Supply	ADAPTER TECHNOLOGY CO LTD	ATM200T-F240	Input: 100-240Vac, 50-60Hz, 2.5A-0.9A Output: 24Vdc, 8.3ATma=50 degree C maximum	UL60950-1, IEC60950-1	UL , CB by UL(DK-61775-UL)	
2. EMI Filter	SCHAFFNER EMV AG	FN2010-3-06	3A, 250V, 50/60Hz, CX1: 0.1uF, CY: 4.7nF, RX: 1000kΩ	UL1283, IEC/EN 60939:2005	UL , CB	
3. Power EntryModule	SCHURTER AG	KEB 2-pole	10A, 250V ac, 65 degree C	UL 498, IEC 60320	UL , VDE	
3-1. Switch	MARQUARDT GMBH	1802, 1805	15 A/250 V ac	UL 1054, EN61058-1	UL , ENEC	
4. PWB	Interchangeable	Interchangeable	Min.V-1, Min.105 degree C	UL796	UL , --	
5. DC Fan	SANYO DENKI CO., LTD.	9S0924M401	24Vdc, 0.07A, 37.8CFM	UL507, EN 60950-1:2006 + A1: 2010+ A12:2011+A2: 2013	UL , TUV	
6. DC Gear Motor	HSIANG NENG	HN-GH12-0953Y	12Vdc, 7 provided, See Enclosure 4-07 for details.	Tested in equipment	- , -	
7. Stepper Motor	SHINANO MOTOR	STP-59D1-Y13-05170	1.9Vdc, 3A, See Enclosure 4-06 for details.	Tested in equipment	- , -	
8. Plastic Enclosure	LOTTE ADVANCED MATERIALS CO LTD	HF-0660I(+)	Minimum HB, minimum 1.5mm thickness, 60degree C, See Enclosure 4-01 to 4-04 for details.	UL94, UL746C	UL , --	
8a. Plastic Enclosure (Alternate)	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	HI-121H	Minimum HB, minimum 1.5mm thickness, 60degree C, See Enclosure 4-01 to 4-04 for details.	UL94, UL746C	UL , --	

IEC 62368-1					
Clause	Requirement + Test		Result - Remark		Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
9.Metal Enclosure	--	--	Metal, 1.0mm thickness minimum, See Enclosure 4-01 to 4-04 for details.	--	-- , --
10. Internal Wiring (Secondary, SELV circuit)	Interchangeable	Interchangeable	Marked "VW-1". Rated minimum. 80 degree C, 60 V.	UL 758	UL , --
11. SELV connector	Interchangeable	Interchangeable	--	UL1977, UL498	UL , --
11a. SELV connector	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum	UL94, UL746C	UL , --
12. High Stand	--	--	Metal, See Enclosure 4-01 for details.	--	-- , --
13. Low Stand	--	--	Metal, See Enclosure 4-03 for details.	--	-- , --
14. Adjustable stand(HL22H)	--	--	Metal, See Enclosure 4-08 for details.	--	-- , --
15. Marking Label	Interchangeable	Interchangeable	55 degree C if maximum surface temperature not specified	UL969	UL , --

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

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
16. Power Supply Cord (Optional) (For USA only)	Interchangeable	Interchangeable	No. 18 AWG, Detachable, min. 1.5m, max. 4.5m long, 18AWG min. TypeSVT or SJT or SPT-2 or NISPT-2 flexible cord, rated min. 125 V, if one end terminated in NEMA 5-15P grounding type attachment plug; rated minimum 250 V, if one end terminated in NEMA 6-15P grounding type attachment plug, the other end in an appliance coupler	UL817 or UL62+UL498	UL , --
16a. Power Supply Cord (Optional) (For Singapore only) (Alternate)	LINETEK	LP-61L	10 A/250 V ac	SS 145:PART1:2010	-- , TUV SUD
17. Interconnect cable (optional)	Interchangeable	Interchangeable	Detachable, 30 V min., 60 degree C min., 3.05 m long max., Surface marked VW-1.	UL758	UL , --
18. Internal plastic parts (except for little plastic parts)	Interchangeable	Interchangeable	Minimum V-2 or better	UL 94, UL 746	UL , --
19. Insulating Tubing / Sleeving (Optional)	Interchangeable	Interchangeable	Surface marked VW-1, 105 degree C, 60V	UL224	UL , --
20. Cable, LVDS	Interchangeable	Interchangeable	Surface marked "VW-1". Rated min. 80 degree C, 60 V.	UL 758	UL , --

IEC 62368-1					
Clause	Requirement + Test		Result - Remark		Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
20a. Cable, LVDS (Alternate)	Interchangeable	Interchangeable	Min. V-1 or VTM-1	UL796, UL94, UL796F	UL , --
21. Glass plate	Interchangeable	Interchangeable	Min. 3.0mm thickness	--	-- , --
22. LED strip	Global Scanning Suzhou Co., Ltd.	NTSL757G- 4000K	24Vdc,23W, exempt	IEC 62471:2006(First Edition)	-- , --
HP Scanner system type BCLAA-1915	--	--	--	--	-- , --
23. Scanner	Global Scanning Denmark A/S	RC67R	100- 240Vac, 50- 60Hz, 2A	Test in equipment	-- , --
24. Adjustable stand(HL22H)	--	--	Metal, See Enclosure 4-08 for details.	--	-- , --
25. Panel PC forAdjustable stand (HL22H) (Optional)	Advantech CoLTD	CTX-7151W	19Vdc,7.89A	UL60950-1, IEC60950-1	UL , CB by UL(DK- 47984-UL)
26. External powersupply forPanel PC forAdjustable stand (HL22H) (Optional)	FSP Group Inc.	FSP150- ABAN2	Input: 100 - 240Vac, 2.0A, 50 -60 HzOutput: 19Vdc,7.89A	UL60950-1, IEC60950-1	UL , CB by TUV(JPTUV- 062594)
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039. 2) Description line content is optional. Main line description needs to clearly detail the component used for testing 3) The CBTL has verified the component information					

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lithium coin/button cell batteries mechanical tests		N/A
(The following mechanical tests are conducted in the sequence noted.)			
4.8.4.2	TABLE: Stress Relief test		—
	Part	Material	Oven Temperature (°C)
4.8.4.3	TABLE: Battery replacement test		—
Battery part no. :			—
Battery Installation/withdrawal		Battery Installation/Removal Cycle	Comments
		1	
		2	
		3	
		4	
		5	
		6	
		8	
		9	
		10	
4.8.4.4	TABLE: Drop test		—
Impact Area	Drop Distance	Drop No.	Observations
		1	
		2	
		3	
4.8.4.5	TABLE: Impact		—
Impacts per surface	Surface tested	Impact energy (Nm)	Comments
4.8.4.6	TABLE: Crush test		—
Test position	Surface tested	Crushing Force (N)	Duration force applied (s)
Supplementary information:			

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

4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result			N/A
Test position	Surface tested	Force (N)	Duration force applied (s)	
Supplementary information:				

5.2	Table: Classification of electrical energy sources						N/A
5.2.2.2 – Steady State Voltage and Current conditions							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				U (Vrms or Vpk)	I (Apk or Arms)	Hz	
1			Normal				
			Abnormal				
			Single fault – SC/OC				
			Normal				
			Abnormal				
			Single fault – SC/OC				
5.2.2.3 - Capacitance Limits							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters		ES Class	
				Capacitance, nF	Upk (V)		
			Normal				
			Abnormal				
			Single fault – SC/OC				
5.2.2.4 - Single Pulses							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Duration (ms)	Upk (V)	lpk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				

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

5.2	Table: Classification of electrical energy sources						N/A
5.2.2.5 - Repetitive Pulses							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Off time (ms)	Upk (V)	Ipk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				
Test Conditions:							
Normal –							
Abnormal -							
Supplementary information: SC=Short Circuit, OC=Short Circuit							

IEC 62368-1						
Clause	Requirement + Test		Result - Remark			Verdict
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements					Pass
	Supply voltage (V)	90Vac/50 Hz	90Vac/50 Hz	264Vac/50 Hz	264Vac/50 Hz	—
	Ambient T _{min} (°C)	--	--	--	--	—
	Ambient T _{max} (°C)	--	Shift to Tma	--	Shift to Tma	—
	Tma (°C)	--	--	--	--	—
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)
1 AC Inlet		26.1	47.0	25.7	46.7	65
2 Power switch		25.8	46.7	25.7	46.7	85
3 Internal primary wire		29.1	50.0	28.7	49.7	80
4 EMI filter		31.1	52.0	30.7	51.7	70
5 Primary wire		32.7	53.6	31.9	52.9	80
6 X capacitor		40.7	61.6	39.4	60.4	110
7 L2 coil		45.0	65.9	42.8	63.8	105
8 C23 body		37.6	58.5	36.4	57.4	125
9 C2 body		47.3	68.2	46.1	67.1	105
10 PWB near Q3		48.2	69.1	47.7	68.7	105
11 T1 coil		52.7	73.6	51.7	72.7	110
12 T1 core		52.4	73.3	51.9	72.9	110
13 T2 coil		50.9	71.8	46.9	67.9	110
14 T2 core		49.1	70.0	45.4	66.4	110
15 PWB near C28 and C29		44.8	65.7	43.7	64.7	105
16 Motor body		55.5	76.4	54.5	75.5	105
17 PWB near IC10(Printer board)		46.7	67.6	46.1	67.1	105
18 PWB near IC2(Printer board)		48.4	69.3	47.8	68.8	105
19 PWB near IC1 (Main board)		41.9	62.8	41.5	62.5	105
20 PWB near IC11 (Main board)		46.1	67.0	45.2	66.2	105
Ambient		24.1	Shift to 45	24.0	Shift to 45	--
21 Metal enclosure near Power supply		29.0	29.9	28.6	29.6	60
22 External plastic enclosure		27.0	27.9	26.5	27.5	77
23 LED panel of monitor		31.4	32.3	30.8	31.8	60
24 External plastic enclosure of monitor		33.5	34.4	33.0	34.0	77
25 External plastic enclosure of adapter		34.5	35.4	33.3	34.3	77

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
Ambient	24.1	Shift to 25	24.0	Shift to 25	--		
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:							
Note 1: Tma should be considered as directed by applicable requirement							
Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)							

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics		N/A
Penetration (mm).....:			—
Object/ Part No./Material		Manufacturer/t rademark	T softening (°C)
supplementary information:			

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics				N/A
Allowed impression diameter (mm) :				≤ 2 mm	—
Object/Part No./Material	Manufacturer/trademark		Test temperature (°C)	Impression diameter (mm)	
Supplementary information:					

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance							Pass
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)
Primary circuit to earthed enclosure		420	250	--	1.27	See table 5.4.2.3	3.0	6.0
Supplementary information:								
Note 1: Only for frequency above 30 kHz								
Note 2: See table 5.4.2.4 if this is based on electric strength test								
Note 3: Provide Material Group								

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

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage			Pass
	Overvoltage Category (OV):			II
	Pollution Degree:			2
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mm)
Primary circuit to earthed enclosure		2500 Vpk	1.5	6.0
Supplementary information:				

5.4.2.4	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, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements					N/A
Distance through insulation di at/of:		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Supplementary information:						

5.4.9	TABLE: Electric strength tests			Pass
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:				
Basic/supplementary:				
L/N to Metal enclosure		DC	2500	No
L/N to earthed terminal		DC	2500	No
Reinforced:				
L/N to non-earthed terminal		DC	4000	No
L/N to Plastic enclosure wrap with metal foil		DC	4000	No
Routine Tests:				

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

5.4.9	TABLE: Electric strength tests			Pass
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Supplementary information:				

5.5.2.2	TABLE: Stored discharge on capacitors					Pass
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification	
264V, 60Hz	Phase to Neutral	N(Fuse in)	On	0 V	ES1	
264V, 60Hz	Phase to Neutral	N(Fuse in)	Off	0V	ES1	
264V, 60Hz	Phase to Neutral	N(Fuse out)	On	0V	ES1	
264V, 60Hz	Phase to Neutral	N(Fuse out)	Off	0V	ES1	
Supplementary information:						
X-capacitors installed for testing are: ☐ bleeding resistor rating: ☐ ICX: Notes: A. Test Location: Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth B. Operating condition abbreviations: N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition						

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

5.6.6.2	TABLE: Resistance of protective conductors and terminations				Pass
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
Appliance Inlet earthing terminal to metal enclosure	32	2	0.96	0.03	
Appliance Inlet earthing terminal to metal enclosure	40	2	1.2	0.03	
Supplementary information:					

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part		Pass
Supply voltage	264Vac/60Hz	—	
Location	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)	
Metal enclosure	1	Normal: 0.938 Reverse: 0.938	
	2*		
	3		
	4		
	5		
	6		
	8		
Supplementary Information:			
Notes:			
[1] Supply voltage is the anticipated maximum Touch Voltage			
[2] Earthed neutral conductor [Voltage differences less than 1% or more]			
[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3			
[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.			
[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.			

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

6.2.2	Table: Electrical power sources (PS) measurements for classification					N/A
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification	
		Power (W) :				
		V _A (V) :				
		I _A (A) :				
		Power (W) :				
		V _A (V) :				
		I _A (A) :				
Supplementary Information:						
(*) Measurement taken only when limits at 3 seconds exceed PS1 limits						
Output was loaded to maximum power after single fault using method from Annex Q.						

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)				N/A
Location		Open circuit voltage After 3 s (V _p)	Measured r.m.s current (I _{rms})	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No
Supplementary information:					
An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V _p) and normal operating condition rms current (I _{rms}) is greater than 15.					

6.2.3.2	Table: Determination of Potential Ignition Sources (Resistive PIS)				N/A
Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
Supplementary Information:					
A combination of voltmeter, V _A and ammeter I _A may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (V _A x I _A) is used to determine Resistive PIS classification. A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.					

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

8.5.5	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							Pass
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
90Vac	50Hz	1.53	--	135.5	--	F1	1.53	Maximum normal load
90Vac	60Hz	1.52	--	134.7	--	F1	1.52	Maximum normal load
100Vac	50Hz	1.37	2	134.2	140	F1	1.37	Maximum normal load
100Vac	60Hz	1.36	2	134.0	140	F1	1.36	Maximum normal load
240Vac	50Hz	0.60	2	132.4	140	F1	0.60	Maximum normal load
240Vac	60Hz	0.60	2	130.9	140	F1	0.60	Maximum normal load
254.4V ac	50Hz	0.56	--	131.0	--	F1	0.56	Maximum normal load
254.4V ac	60Hz	0.57	--	132.0	--	F1	0.57	Maximum normal load
264Vac	50Hz	0.55	--	131.7	--	F1	0.55	Maximum normal load
264Vac	60Hz	0.55	--	130.7	--	F1	0.55	Maximum normal load

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

B.2.5	TABLE: Input test							Pass
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Input current of power supply for Panel PC		--		--	--	--	--	
240Vac	50Hz	2	--	20.30	--	F1	0.195	Maximum normal load
240Vac	60Hz	2	--	21.37	--	F1	0.256	Maximum normal load
Supplementary information:								
Maximum Normal Load: Scanner set to constant fastest paper feed submitted by the manufacture.								

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

B.3	TABLE: Abnormal operating condition tests							Pass
Ambient temperature (°C)					--			—
Power source for EUT: Manufacturer, model/type, output rating ..					--			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
1 All openings	Blocked	264Vac/60Hz	1h16min	F1	0.681	--	--	Unit normal operation. NC.NB,NT The maximum temperature of key components: 1. AC Inlet: 25.7 degree C at ambient 23.9 degree C 2. Power switch: 25.7 degree C at ambient 23.9 degree C 3. Internal primary wire: 28.6 degree C at ambient 23.9 degree C 4. EMI filter: 30.5 degree C at ambient 23.9 degree C 5. Primary wire: 31.7 degree C at ambient 23.9 degree C 6. X capacitor: 39.3 degree C at ambient 23.9 degree C 7. L2 coil: 42.6 degree C at ambient 23.9 degree C 8. C23 body: 36.3 degree C at ambient 23.9 degree C 9. C4 body: 46.2 degree

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							C at ambient 23.9degree C 10. PWB near Q3: 47.5 degree C at ambient 23.9 degree C 11. T1 coil: 51.6 degree C at ambient 23.9 degree C 12. T1 core: 51.3 degree C at ambient 23.9 degree C 13. T2 coil: 46.8 degree C at ambient 23.9 degree C 14. T2 core: 45.2 degree C at ambient 23.9 degree C 15. PWB near C28 and C29: 43.5 degree C at ambient 23.9 degree C 16. Motor body: 52.9 degree C at ambient 23.9 degree C 17. PWB near IC10(Printer board): 45.5 degree C at ambient 23.9 degree C 18. PWB near IC2(Printer board): 47.4 degree C at ambient 23.9 degree C

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							19. Metal enclosure near Power supply: 28.7 degree C at ambient 23.9 degree C 20. External plastic enclosure: 26.7 degree C at ambient 23.9 degree C 21. PWB near IC1 (Main board): 41.4 degree C at ambient 23.9 degree C 22. PWB near IC11 (Main board): 44.9 degree C at ambient 23.9 degree C 23. LED panel of monitor: 31.3 degree C at ambient 23.9 degree C 24. External plastic enclosure of monitor: 33.0 degree C at ambient 23.9 degree C 25. External plastic enclosure of adapter: 33.2 degree C at ambient 23.9 degree C

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

B.3	TABLE: Abnormal operating condition tests							Pass
Ambient temperature (°C)					--		—	
Power source for EUT: Manufacturer, model/type, output rating ...:					--		—	
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
2 Paper jam	Stalled	264Vac/60Hz	30min	F1	0.228	--	--	Unit normal operation. NC.NB,NT The maximum temperature of key components: 1. AC Inlet: 25.0 degree C at ambient 24.2 degree C 2. Power switch: 25.0 degree C at ambient 24.2 degree C 3. Internal primary wire: 26.4 degree C at ambient 24.2 degree C 4. EMI filter: 27.2 degree C at ambient 24.2 degree C 5. Primary wire: 29.0 degree C at ambient 24.2 degree C 6. X capacitor: 35.9 degree C at ambient 24.2 degree C 7. L2 coil: 39.2 degree C at ambient 24.2 degree C 8. C23 body: 33.2 degree C at ambient 24.2 degree C 9. C4 body: 42.1 degree

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							C at ambient 24.2 degree C 10. PWB near Q3: 43.3 degree C at ambient 24.2 degree C 11. T1 coil: 43.6 degree C at ambient 24.2 degree C 12. T1 core: 45.6 degree C at ambient 24.2 degree C 13. T2 coil: 41.3 degree C at ambient 24.2 degree C 14. T2 core: 40.3 degree C at ambient 24.2 degree C 15. PWB near C28 and C29: 36.4 degree C at ambient 24.2 degree C 16. Motor body: 27.9 degree C at ambient 24.2 degree C 17. PWB near IC10(Printer board): 39.2 degree C at ambient 24.2 degree C 18. PWB near IC2(Printer board): 43.1 degree C at ambient 24.2 degree C

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							19. Metal enclosure near Power supply: 39.2 degree C at ambient 24.2 degree C 20. External plastic enclosure: 40.4 degree C at ambient 24.2 degree C 21. PWB near IC1 (Main board): 27.1 degree C at ambient 24.2 degree C 22. PWB near IC11 (Main board): 25.7 degree C at ambient 24.2 degree C 23. LED panel of monitor: 29.0 degree C at ambient 24.2 degree C 24. External plastic enclosure of monitor: 29.4 degree C at ambient 24.2 degree C 25. External plastic enclosure of adapter: 29.6 degree C at ambient 24.2 degree C
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.							

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.4	TABLE: Fault condition tests		Pass

IEC 62368-1								
Clause	Requirement + Test					Result - Remark		Verdict
Ambient temperature (°C)						--		—
Power source for EUT: Manufacturer, model/type, output rating ..						--		—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
1 Fan	Locked	264Vac/60HZ	45min	F1	0.683	--	--	Unit normal operation. NC.NB,NT The maximum temperature of key components: 1. AC Inlet: 25.9 degree C at ambient 24.12 degree C 2. Power switch: 25.7 degree C at ambient 24.1 degree C 3. Internal primary wire: 28.9 degree C at ambient 24.1 degree C 4. EMI filter: 31.1 degree C at ambient 24.1 degree C 5. Primary wire: 32.0 degree C at ambient 24.1 degree C 6. X capacitor: 40.7 degree C at ambient 24.1 degree C 7. L2 coil: 44.4 degree C at ambient 24.1 degree C 8. C23 body: 36.9 degree C at ambient 24.1 degree C 9. C4 body: 52.0 degree

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							C at ambient 24.1 degree C 10. PWB near Q3: 49.6 degree C at ambient 24.1 degree C 11. T1 coil: 56.0 degree C at ambient 24.1 degree C 12. T1 core: 55.6 degree C at ambient 24.1 degree C 13. T2 coil: 51.0 degree C at ambient 24.1 degree C 14. T2 core: 49.4 degree C at ambient 24.1 degree C 15. PWB near C28 and C29: 43.6 degree C at ambient 24.1 degree C 16. Motor body: 57.1 degree C at ambient 24.1 degree C 17. PWB near IC10(Printer board): 46.6 degree C at ambient 24.1 degree C 18. PWB near IC2(Printer board): 48.2 degree C at ambient 24.1 degree C 19. Metal enclosure

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
							near Power supply: 42.6 degree C at ambient 24.1 degree C 20. External plastic enclosure: 45.6 degree C at ambient 24.1 degree C 21. PWB near IC1 (Main board): 31.0 degree C at ambient 24.1 degree C 22. PWB near IC11 (Main board): 26.8 degree C at ambient 24.1 degree C 23. LED panel of monitor: 30.9 degree C at ambient 24.1 degree C 24. External plastic enclosure of monitor: 33.1 degree C at ambient 24.1 degree C 25. External plastic enclosure of adapter: 33.4 degree C at ambient 24.1 degree C
Supplementary information:							

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

Annex M	TABLE: Batteries								N/A
The tests of Annex M are applicable only when appropriate battery data is not available									
Is it possible to install the battery in a reverse polarity position?:									
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. (cell) Temperature during fault condition									
Max. (cell) Temperature during direct short condition									
Max. (cell) Temperature during direct short condition									
Test results:								Verdict	
- Chemical leaks									
- Explosion of the battery									
- Emission of flame or expulsion of molten metal									
- Electric strength tests of equipment after completion of tests									
Supplementary information:									

Annex M.4	Table: Additional safeguards for equipment containing secondary lithium batteries					N/A
Battery/Cell No.	Test conditions	Measurements			Observation	
		U	I (A)	Temp (°C)		
	Normal					
	Abnormal					
	Single fault –SC/OC					
Supplementary Information:						
Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation		

IEC 62368-1				
Clause	Requirement + Test		Result - Remark	Verdict
Supplementary Information:				

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)					Pass
Note: Measured UOC (V) with all load circuits disconnected:						
Output Circuit	Components	U _{oc} (V)	I _{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit
Display LVDS(J18)	Normal	23.7	3.2	8	70.4	100
Display LVDS(J18)	Single fault: T8 D-S	23.8	3.0	8	65.0	100
Display LVDS(J18)	Single fault: F2	23.7	6.8	8	75.0	100
RJ45 port	Normal	0	0	8	0	100
USB port	Normal	0	0	8	0	100
Supplementary Information:						
SC=Short circuit, OC=Open circuit						
Display LVDS(J18), Single fault: F2, Trace broken, same result with three times repeated.						

T.2, T.3, T.4, T.5	TABLE: Steady force test					Pass
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
All side of metal enclosure beside power supply	Metal	1.0	250	5	All safeguards remain effective.	
Plastic Enclosure	See appended table 4.1.2	1.5	250	5	All safeguards remain effective.	
Supplementary information:						

T.6, T.9	TABLE: Impact tests					Pass
-----------------	----------------------------	--	--	--	--	------

IEC 62368-1				
Clause	Requirement + Test		Result - Remark	Verdict
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
All side beside power supply	Metal	1.0	1300	All safeguards remain effective.
Plastic Enclosure	See appended table 4.1.2	1.0	1300	All safeguards remain effective.
Supplementary information:				

T.7	TABLE: Drop tests				N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Supplementary information:					

T.8	TABLE: Stress relief test					Pass
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
Plastic Enclosure	See appended table 4.1.2	1.5	70	7	All safeguards remain effective.	
Supplementary information:						

Enclosure
National Differences

Australia / New Zealand

Japan

EU Group Differences

USA / Canada

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT	
IEC 62368-1	
(AUSTRALIA / NEW ZEALAND) NATIONAL DIFFERENCES	
(Audio/video, information and communication technology equipment)	
Differences according to	AS/NZS 62368.1:2018
Attachment Form No.	AU_NZ_ND_IEC62368_1B
Attachment Originator	JAS-ANZ
Master Attachment	2019-02-04
Copyright © 2019 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

	NATIONAL DIFFERENCES	Pass
Appendix ZZ	Variations to IEC 62368-1:2014 (ED. 2.0) for Australia and New Zealand	Pass
ZZ1 Scope	This Appendix lists the normative variations to IEC 62368-1:2014 (ED. 2.0)	Pass
ZZ2 Variations	The following modifications are required for Australian/New Zealand conditions:	Pass
2	Add the following to the list of normative references: The following normative documents are referenced in Appendix ZZ: -AS/NZS 3112, <i>Approval and test specification—Plugs and socket-outlets</i> -AS/NZS 3123, <i>Approval and test specification—Plugs, socket-outlets and couplers for general industrial application</i> -AS/NZS 3191, <i>Electric flexible cords</i> -AS/NZS 60065, <i>Audio, video and similar electronic apparatus—Safety requirements (IEC 60065:2015 (ED.8.0) MOD)</i> -AS/NZS 60320.1, <i>Appliance couplers for household and similar general purposes, Part 1: General requirements (IEC 60320-1, Ed.2.1 (2007) MOD)</i> -AS/NZS 60320.2.2, <i>Appliance couplers for household and similar general purposes Part 2.2: Interconnection couplers for household and similar equipment (IEC 60320-2-2, Ed.2.0 (1998) MOD)</i> -AS/NZS 60695.2.11, <i>Fire hazard testing, Part 2.11: Glowing/hot wire based test methods—Glow-wire flammability test method for end-products</i> -AS/NZS 60695.11.5, <i>Fire hazard testing, Part 11.5: Test flames—Needle-flame test method—</i>	N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<i>Apparatus, confirmatory test arrangement and guidance</i> -AS/NZS 60695.11.10, <i>Fire hazard testing, Part 11.10: Test flames—50 W</i> <i>horizontal and vertical flame test methods</i> -AS/NZS 60884.1, <i>Plugs and socket-outlets for household and similar purposes,</i> <i>Part 1: General requirements</i> -AS/NZS 60950.1:2015, <i>Information technology equipment—Safety, Part 1: General requirements (IEC 60950-1, Ed.2.2 (2013), MOD)</i> <i>IEC 61032:1997, Protection of persons and equipment by enclosures—Probes for verification</i> -AS/NZS 61558.1:2008 (including Amendment 2:2015), <i>Safety of Power Transformers, Power Supplies, Reactors and Similar Products, Part 1: General requirements and tests (IEC 61558-1 Ed 2.1, MOD)</i> -AS/NZS 61558.2.16, <i>Safety of transformers, reactors, power supply units and similar products for voltages up to 1 100 V, Part 2.16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units.</i>		
4.1.1	Application of requirements and acceptance of materials, components and subassemblies 1 Replace the text 'IEC 60950-1' with 'AS/NZS 60950.1:2015'. 2 Replace the text 'IEC 60065' with 'AS/NZS 60065'.		N/A
4.7	Equipment for direct insertion into mains socket-outlets		N/A
4.7.2	Requirements Delete the text of the second paragraph and replace with the following: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112 shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.		N/A
4.7.3	Compliance Criteria Delete the first paragraph and Note 1 and Note 2 and replace with the following: Compliance is checked by inspection and, if necessary, by the tests in AS/NZS 3112.		N/A

IEC62368_1B - ATTACHMENT																						
Clause	Requirement + Test	Result - Remark	Verdict																			
4.8	Delete existing clause title and replace with the following: 4.8 Products containing coin/button cell batteries		N/A																			
4.8.1	General 1 Second dashed point, delete the text and replace with the following: – include coin/button cell batteries with a diameter of 32 mm or less. 2 After the second dashed point, insert the following Note: NOTE 1: Batteries are specified in IEC 60086-2. 3 After the third dashed point, renumber the existing Note as 'NOTE 2'. 4 Fifth dashed point, delete the word 'lithium'.		N/A																			
4.8.2	Instructional Safeguard First line, delete the word 'lithium'.		N/A																			
4.8.3	Construction First line, after the word 'Equipment' insert the words 'containing one or more coin/button batteries and'		N/A																			
4.8.5	Compliance criteria Delete the first paragraph and replace with the following: Compliance is checked by applying a force of 30 N +/-1 N for 10 s to the battery compartment door/cover by a rigid test finger according to test probe 11 of IEC 61032:1997 at the most unfavourable place and in the most unfavourable direction. The force shall be applied in one direction at a time.		N/A																			
5.4.10.2	Test Methods		N/A																			
5.4.10.2.1	General Delete the first paragraph and replace with the following: In Australia only, the separation is checked by the test of both Clause 5.4.10.2.2 and Clause 5.4.10.2.3. In New Zealand, the separation is checked by the test of either Clause 5.4.10.2.2 or Clause 5.4.10.2.3.		N/A																			
Table 29	Replace the table with the following: <table><tr><th rowspan="2">Parts</th><th colspan="2">Impulse test</th><th colspan="2">Steady state test</th></tr><tr><th>New Zealand</th><th>Australia</th><th>New Zealand</th><th>Australia</th></tr><tr><td>Parts indicated in Clause 5.4.10.1 a) ^a</td><td>2.5 kV 10/700 µs</td><td>7.5 kV for hand-held telephones and headsets, 2.5 kV for other equipment, 10/700 µs</td><td>3.5 kV</td><td>5 kV</td></tr><tr><td>Parts indicated in Clause 5.4.10.1 b) and c) ^b</td><td>1.5 kV 10/700 µs ^c</td><td></td><td>2.0 kV</td><td>2.5 kV</td></tr></table> ^a Surge suppressors shall not be removed. ^b Surge suppressors may be removed, provided that such devices pass the impulse test of Clause 5.4.10.2.2 when tested as components outside the equipment. ^c During this test, it is allowed for a surge suppressor to operate and for a sparkover to occur in a GDT.		Parts	Impulse test		Steady state test		New Zealand	Australia	New Zealand	Australia	Parts indicated in Clause 5.4.10.1 a) ^a	2.5 kV 10/700 µs	7.5 kV for hand-held telephones and headsets, 2.5 kV for other equipment, 10/700 µs	3.5 kV	5 kV	Parts indicated in Clause 5.4.10.1 b) and c) ^b	1.5 kV 10/700 µs ^c		2.0 kV	2.5 kV	N/A
Parts	Impulse test			Steady state test																		
	New Zealand	Australia	New Zealand	Australia																		
Parts indicated in Clause 5.4.10.1 a) ^a	2.5 kV 10/700 µs	7.5 kV for hand-held telephones and headsets, 2.5 kV for other equipment, 10/700 µs	3.5 kV	5 kV																		
Parts indicated in Clause 5.4.10.1 b) and c) ^b	1.5 kV 10/700 µs ^c		2.0 kV	2.5 kV																		

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.2.2	After the first paragraph, <i>insert</i> new Notes 201 and 202 as follows: NOTE 201 For Australia, the 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines. NOTE 202 For Australia, the value of 2.5 kV for Clause 5.4.10.1 a) was chosen to ensure the adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.		N/A
5.4.10.2.3	After the first paragraph, <i>insert</i> new Notes 201 and 202 as follows: NOTE 201 For Australia, where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used. NOTE 202 The 3 kV and 1.5 kV values for Australia have been determined considering the low frequency induced voltages from the power supply distribution system.		N/A
6	Electrically-caused fire		N/A
6.1	General After the first paragraph, <i>insert</i> the following new paragraph: Alternatively, the requirements of Clauses 6.2 to 6.5.2 are considered to be fulfilled if the equipment complies with the requirements of Clause 6.202		N/A
6.6	After Clause 6.6, add the new Clauses 6.201 and 6.202 as follows: 6.201 External power supplies, docking stations and other similar devices and 6.202 Resistance to fire—Alternative tests (see special national conditions)		N/A
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment In the first dashed row and the second dashed rows replace 'IEC 60950-1:2005' with 'AS/NZS 60950.1:2015'.		N/A
8.6	Stability of equipment		Pass
8.6.1 and Table 36	Requirements 1. Table 36, <i>insert</i> Footnote c at the end of the 'Glass slide' heading, and add a new Footnote c after the text of Footnote b in the last row of Table 36 as follows: c The glass slide test is not applicable to floor standing equipment, even though the equipment may have controls or a display.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	2. Table 36, fifth row, <i>insert</i> '201' at the end of 'No stability requirements' 3. Table 36, ninth row, <i>insert</i> '201' at the end of 'No stability requirements' 4. Table 36, add the following new footnote: 201 MS2 and MS3 television sets and display devices, designed only for fixing to a wall, ceiling or equipment rack, are not subjected to stability requirements only if the instructional safeguard of Clause 8.6.1.201 is provided. Otherwise, the glass slide requirements of Clause 8.6.4 and horizontal force requirements of Clause 8.6.5 apply. 5. Second paragraph beneath Table 36, delete the words 'MS2 and MS3 television sets' and replace with 'MS2 and MS3 television sets and display devices'		
8.6.1	After Clause 8.6.1 <i>add</i> the following new clauses: 8.6.1.201 Instructional safeguard for fixed-mount television sets (see special national conditions)		N/A
Annex F Paragraph F.3.5.1	Mains appliance outlet and socket-outlet markings <i>Replace</i> 'IEC 60320-2-2' with 'AS/NZS 60320.2.2'.		N/A
Annex G Paragraph G.4.2	Mains connectors 1 In the second line <i>insert</i> 'or AS/NZS 3123' after 'IEC 60906-1'. 2 In the second line <i>insert</i> 'or AS/NZS 60320 series' after 'IEC 60320 series' 3 <i>Add</i> the following new paragraph: 10 A or 15 A 250 V flat pin plugs for the connection of equipment to mains-powered socket-outlets for household or similar general use shall comply with AS/NZS 3112 or AS/NZS 60884.1.		N/A
Paragraph G.5.3.1	Transformers, General 1 In the third dashed point replace 'IEC 61558-1 and the relevant parts of IEC 61558-2' with 'AS/NZS 61558-1 and the relevant parts of AS/NZS 61558.2' 2 In the fourth dashed point <i>replace</i> 'IEC 61558-2-16' with 'AS/NZS 61558.2.16'.		N/A
Paragraph G.7.1	Mains supply cords, General In the fourth dashed paragraph, <i>replace</i> 'IEC 60320-1' with 'AS/NZS 60320.1'		N/A
Table G.5	Sizes of conductors		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	1 In the second row, first column, <i>delete</i> '6' and <i>replace</i> with '7.5' 2 In the second row, second column, <i>delete</i> '0,75' and <i>replace</i> with '0.75^b' 3 <i>Delete</i> Note 1. 4 <i>Replace</i> 'NOTE 2' with 'NOTE:'. 5 <i>Delete</i> the text of 'Footnote b' and <i>replace</i> with the following: ^b This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord, or cord guard, enters the appliance, and the entry to the plug does not exceed 2 m (0.5 mm² three-core supply flexible cords are not permitted; see AS/NZS 3191). 6 In Footnote c <i>replace</i> 'IEC 60320-1' with 'AS/NZS 60320.1' 7 In Footnote d <i>replace</i> 'IEC 60320-1' with 'AS/NZS 60320.1'		
Annex M Paragraph M.3.2	Protection circuits for batteries provided within the equipment, Test method After the first dashed point add the following Note: NOTE 201: In cases where the voltage source is provided by power from an unassociated power source, consideration should be given to the effects of possible single fault conditions in the unassociated equipment. If the power source is unknown then it should be assumed that the maximum limit of SELV may be applied to the source input under assumed single fault conditions in the source when assessing the charging circuit in the equipment under test.		N/A
	Special national conditions (if any)		Pass
6.201	External power supplies, docking stations and other similar devices For external power supplies, docking stations and other similar devices, during and after abnormal operating conditions and during single fault conditions the output voltage— – at all ES1 outlets or connectors shall not increase by more than 10% of its rated output voltage under normal operating condition; and – of a USB outlet or connector shall not increase by more than 3 V or 10% of its rated output voltage under normal operating conditions, whichever is higher.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	For equipment with multiple rated output voltages, the requirements apply with the equipment configured for each rated output voltage in turn. NOTE: This is intended to reduce the possibility of battery fire or explosion in attached equipment or accessories when charging secondary lithium batteries. Compliance shall be checked by measurement, taking into account the abnormal operating conditions of Annex B.3 and the simulated single-fault conditions of Annex B.4		
6.202	Resistance to fire - Alternative tests		N/A
6.202.1	General Parts of non-metallic material shall be resistant to ignition and spread of fire. This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames from inside the equipment, or the following: a) Components that are contained in an enclosure having a flammability category of V-0 according to AS/NZS 60695.11.10 and having openings only for the connecting wires filling the openings completely, and for ventilation not exceeding 1 mm in width regardless of length. b) The following parts which would contribute negligible fuel to a fire: – small mechanical parts, the mass of which does not exceed 4 g, such as mounting parts, gears, cams, belts and bearings; – small electrical components, such as capacitors with a volume not exceeding 1 750 mm³, integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category V-1, or better, according to AS/NZS 60695.11.10. NOTE: In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating the fire from one part to another. <i>Compliance shall be checked by the tests of Clauses 6.202.2, 6.202.3 and 6.202.4.</i> For the base material of printed boards, compliance shall be checked by the test of Clause 6.202.5.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	The tests shall be carried out on parts of non-metallic material which have been removed from the equipment. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use. These tests are not carried out on internal wiring.		
6.202.2	Testing of non-metallic materials Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550°C. Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow-wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the relevant part is not thinner than the sample tested.		N/A
6.202.3	Testing of insulating materials Parts of insulating material supporting Potential Ignition Sources shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 750°C. The test shall be also carried out on other parts of insulating material which are within a distance of 3 mm of the connection. NOTE: Contacts in components such as switch contacts are considered to be connections		N/A
	For parts which withstand the glow-wire test but produce a flame, other parts above the connection within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm shall be subjected to the needle-flame test. However, parts shielded by a barrier which meets the needle-flame test need not be tested		N/A
	The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the following modifications		N/A

IEC62368_1B - ATTACHMENT													
Clause	Requirement + Test	Result - Remark	Verdict										
	<table><tr><td>Clause of AS/NZS 60695.11.5</td><td>Change:</td></tr><tr><td>9 Test procedure</td><td></td></tr><tr><td>9.2 Application of needle-flame</td><td>Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s.</td></tr><tr><td>9.3 Number of test specimens</td><td>Replace with the following: The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall withstand the test.</td></tr><tr><td>11 Evaluation of test results</td><td>Replace with the following: The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.</td></tr></table> The needle-flame test shall not be carried out on parts of material classified as V-0 or V-1 according to AS/NZS 60695.11.10, provided that the relevant part is not thinner than the sample tested.	Clause of AS/NZS 60695.11.5	Change:	9 Test procedure		9.2 Application of needle-flame	Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s.	9.3 Number of test specimens	Replace with the following: The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall withstand the test.	11 Evaluation of test results	Replace with the following: The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.		
Clause of AS/NZS 60695.11.5	Change:												
9 Test procedure													
9.2 Application of needle-flame	Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s.												
9.3 Number of test specimens	Replace with the following: The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall withstand the test.												
11 Evaluation of test results	Replace with the following: The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.												
6.202.4	Testing in the event of non-extinguishing material If parts, other than enclosures, do not withstand the glow wire tests of Clause 6.202.3, by failure to extinguish within 30 s after the removal of the glow wire tip, the needle-flame test detailed in Clause 6.202.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of Clause 6.202.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested. NOTE 1: If the enclosure does not withstand the glow-wire test the equipment is considered to have failed to meet the requirements of Clause 6.202 without the need for consequential testing. NOTE 2: If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment, the equipment is considered to have failed to meet the requirements of Clause 6.202 without the need for consequential testing. NOTE 3: Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.		N/A										
6.202.5	Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause		N/A										

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	6.202.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a potential ignition source. The test is not carried out if— – the printed board does not carry any potential ignition source; – the base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires which fill the openings completely; or – the base material of printed boards, on which the available equipment power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely. <i>Conformance</i> shall be determined using the smallest thickness of the material. NOTE: Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximize the apparent power for more than 2 min when the circuit supplied is disconnected.		
6.202.6	For open circuit voltages greater than 4 kV Potential ignition sources with open circuit voltages exceeding 4 kV (peak) a.c. or d.c. under normal operating conditions shall be contained in a FIRE ENCLOSURE which shall comply with flammability category V-1 or better according to AS/NZS 60695.11.10.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
8.6.1.201	8.6.1.201 Instructional safeguard for fixed-mount television sets MS2 and MS3 television sets and display devices designed only for fixed mounting to a wall of ceiling or equipment rack shall, where required in Table 36, footnote 201, have an instructional safeguard in accordance with Clause F.5 which may be on the equipment or included in the installation instructions or equivalent document accompanying the equipment. The elements of the instructional safeguard shall be as follows: – element 1a: not available; – element 2: 'Stability Hazard' or equivalent wording; – element 3: 'The television set may fall, causing serious personal injury or death' or equivalent text; – element 4: the following or equivalent text: To prevent injury, this television set must be securely attached to the floor/wall in accordance with the installation instructions		N/A
8.6.1.202	Restraining device MS2 and MS3 television sets and display devices that are not solely fixed-mounted should be provided with a restraining device such as a fixing point to facilitate restraining the equipment from toppling forward. The restraining device shall be capable of withstanding a pull of 100 N in all directions without damage. Where a restraining device is provided, instructions shall be provided in the instructions for installation or instructions for use to ensure correct and safe installation.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 (JAPAN) NATIONAL DIFFERENCES (Audio/video, information and communication technology equipment – Part 1: Safety requirements)	
Differences according to	J62368-1 (H30)
Attachment Form No.....	JP_ND_IEC62368_1B
Attachment Originator.....	UL (JP)
Master Attachment.....	Date 2018-11-22
Copyright © 2018 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

	National Differences	—
4.1.2	Where the component, or a characteristic of a component, is a safeguard or a part of a safeguard, components shall comply with the requirements of this standard or, where specified in a requirements clause, with the safety aspects of the relevant JIS component standards or IEC component standards, or components shall have properties equivalent to or better than these.	N/A
5.6.1	Mains socket-outlet and appliance outlet shall comply with Clause G.4.2A if they are incorporated as part of the equipment.	N/A
5.6.2.1	Mains connection of class 0I equipment: Instructional safeguard in accordance with Clause F.3.6.1A; Mains plug having a lead wire for protective earthing connection of class 0I equipment; Independent main protective earthing terminal installed by ordinary person.	N/A
5.6.2.2	This requirement does not apply to internal conductor of the cord set that is covered by the sheath of mains cord and is formed together with mains plug and appliance connector.	N/A
5.6.3	In case of class 0I equipment using power supply cord having two conductors (no earthing conductor), the conductor of protective earthing lead wire shall comply with either of the following:	N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	– use of annealed copper wire with 1.6 mm diameter or corrosion-inhibiting metal wire having size and strength that are equivalent to or more than the above copper wire – single core cord or single core cab tire cable with 1.25 mm² or more cross-sectional area		
5.7.3	For class 0I equipment that is provided with mains socket-outlet in the configuration as specified in JIS C 8282 series or JIS C 8303, or otherwise being considered to comply with relevant regulations, or that is provided with mains appliance outlet as specified in JIS C 8283-2-2 for the purpose of interconnection, the measurement is conducted on the system of the interconnected equipment having a single connection to the mains.		N/A
5.7.4	In case of class 0I equipment, touch current shall not exceed 1.41 mA peak or for sinusoidal wave, 1.0 mA r.m.s. when measured using the network specified in Figure 4 of IEC 60990.		N/A
6.4.3.3	A fuse complying with JIS C 6575 series or a fuse having equivalent characteristics shall open within 1 s. For Class A fuse of JIS C 6575, replace “2.1 times” by “1.35 times” and in case of Class B fuse of JIS C 6575, replace “2.1 times” by “1.6 times”. A fuse not complying with JIS C 6575 series shall be tested with the breaking capacity taken into account.		N/A
8.5.4.2.1	Only three-phase stationary equipment rated more than 200 V ac can be considered as being for use in locations where children are not likely to be present, when complying with Clause F.4.		N/A
8.5.4.2.2	For equipment installed where children may be present, an instructional safeguard shall be provided by easily understandable wording in accordance with Clause F.5, except that element 3 is optional.		N/A
8.5.4.2.4	The media destruction device is tested according to Clause V.1.2 with applicable jointed test probes		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	to the opening. And then the wedge probe per Figure V.4 shall not contact any moving part.		
8.5.4.2.5	The wedge probe of Figure V.4 and applicable jointed test probes specified in Clause V.1.2 shall not contact any moving part. Instructional safeguard shall not be used instead of equipment safeguard for preventing access to hazardous moving parts.		N/A
9.2.6, Table 38	Handles, Knobs, grips, etc. and external surfaces either held, touched or worn against the body in normal use (> 1 min) ^{b,c}		N/A
F.3.5.1	Instructional safeguard of class 0I equipment in accordance with Clause F.5 when a mains socket-outlet as specified in JIS C 8282 series, JIS C 8303 or relevant regulation to which class I equipment can be connected is provided in accordance with Clause G.4.2A except for the cases where the socket-outlet is accessible only to skilled persons.		N/A
F.3.5.3	If the fuse is necessary for the safeguard function, the symbols indicating pre-arcing time-current characteristic.		N/A
F.3.6.1A	Marking for class 0I equipment The requirements of Clauses F.3.6.1.1 and F.3.6.1.3 shall be applied to class 0I equipment. For class 0I equipment, a marking of instructions and instructional safeguard shall be provided regarding the earthing connection.		N/A
F.3.6.2.1	Symbols, IEC 60417-5172 (2003-02) or IEC 60417-6092 (2011-10), shall not be used for class I equipment or class 0I equipment.		N/A
F.4	Instruction for audio equipment with terminals classified as ES3 in accordance with Table E.1, and for other equipment with terminals marked in accordance with F.3.6.1 and F.3.6.1A. Installation instruction for the protective earthing connection for class 0I equipment provided with independent main protective earthing terminal, where the cord for the protective earthing		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	connection is not provided within the package for the equipment.		
G.3.2.1	The thermal link when tested as a separate component, shall comply with the requirements of JIS C 6691 or have properties equivalent to or better than that.		N/A
G.3.4	Except for devices covered by Clause G.3.5, overcurrent protective devices used as a safeguard shall comply with the relevant part of JIS C 6575 (corresponding to IEC60127) or shall have equivalent characteristics. If there are no applicable IEC standards, overcurrent protective devices used as a safeguard shall comply with their applicable IEC standards.		N/A
G.4.1	This requirement is not applicable to Clauses G.4.2 and G.4.2A.		N/A
G.4.2	Mains connector shall comply with JIS C 8282 series, JIS C 8283 series, JIS C 8285, JIS C 8303 or IEC 60309 series. Mains plugs and socket-outlets shall comply with JIS C 8282 series, JIS C 8303, IEC 60309 series, or have equivalent or better performance. A power supply cord set provided with appliance connector that can fit appliance inlet complying with JIS C 8283-1 shall comply with JIS C 8286. Construction preventing mechanical stress not to transmit to the soldering part of inlet terminal. Consideration for an equipment rated not more than 125 V provided with Type C14 and C18 appliance coupler complying with JIS C 8283 series.		N/A
G.4.2A	Mains socket-outlet and interconnection coupler provided with the class II, class I and class 0I equipment respectively.		N/A
G.7.1	A mains supply cord need not include the protective earthing conductor for class 0I		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	equipment provided with independent protective earthing conductor.		
G.8.3.3	Withstand $1,71 \times 1.1 \times U_0$ for 5 s.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT	
IEC 62368-1	
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES	
(Audio/video, information and communication technology equipment - Part 1: Safety requirements)	
Differences according to	EN 62368-1:2014+A11:2017
Attachment Form No.	EU_GD_IEC62368_1B_II
Attachment Originator	Nemko AS
Master Attachment	9/22/2017
Copyright © 2017 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

	CENELEC COMMON MODIFICATIONS (EN)					Pass																																				
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed “Z”.					Pass																																				
CONTENT S	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZC (informative) A-deviations Annex ZD (informative) IEC and CENELEC code designations for flexible cords					Pass																																				
	Delete all the “country” notes in the reference document (IEC 62368-1:2014) according to the following list: <table border="1"><tr><td>0.2.1</td><td>Note</td><td>1</td><td>Note 3</td><td>4.1.15</td><td>Note</td></tr><tr><td>4.7.3</td><td>Note 1 and 2</td><td>5.2.2.2</td><td>Note</td><td>5.4.2.3.2.2 Table 13</td><td>Note c</td></tr><tr><td>5.4.2.3.2.4</td><td>Note 1 and 3</td><td>5.4.2.5</td><td>Note 2</td><td>5.4.5.1</td><td>Note</td></tr><tr><td>5.5.2.1</td><td>Note</td><td>5.5.5</td><td>Note</td><td>5.6.4.2.1</td><td>Note 2 and 3</td></tr><tr><td>5.7.5</td><td>Note</td><td>5.7.6.1</td><td>Note 1 and 2</td><td>10.2.1 Table 39</td><td>Note 2, 3 and 4</td></tr><tr><td>10.5.3</td><td>Note 2</td><td>10.6.2.1</td><td>Note 3</td><td>F.3.3.6</td><td>Note 3</td></tr></table>					0.2.1	Note	1	Note 3	4.1.15	Note	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	5.5.2.1	Note	5.5.5	Note	5.6.4.2.1	Note 2 and 3	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	Pass
0.2.1	Note	1	Note 3	4.1.15	Note																																					
4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c																																					
5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note																																					
5.5.2.1	Note	5.5.5	Note	5.6.4.2.1	Note 2 and 3																																					
5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4																																					
10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3																																					
	For special national conditions, see Annex ZB.					Pass																																				
1	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.					Pass																																				
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:					Pass																																				
	a) Included as parts of the equipment					Pass																																				
	b) For components in series with the mains; by devices in the building installation					N/A																																				
	c) For pluggable type B or permanently connected; by devices in the building installation					N/A																																				

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.		N/A
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus. Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		N/A
10.6.1	Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		N/A
10.Z1	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566		N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Bibliography	Add the following standards: Add the following notes for the standards indicated: IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-21. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.		Pass
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		Pass
4.1.15	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"		N/A
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		N/A
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition • passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and • is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV. It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: • the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; • the additional testing shall be performed on all the test specimens as described in EN 60384-14; the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		N/A
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		N/A
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		N/A
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.		N/A
5.6.5.1	Ireland and United Kingdom To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.		N/A
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A
5.7.6.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: “Apparatus connected to the protective earthing		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)” NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): “Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet.” Translation to Swedish: “Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.”.		
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA .		N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met		N/A
G.4.2	Denmark: Appliances rated ≤13 A provided with a plug according to DS 60884-2-D1:2011.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	Class I equipment provided with socket-outlets provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having rated >13 A or poly-phase equipment provided with a supply cord with a plug, plug in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus rated 2,5 A in accordance with DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a		
G.4.2	United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N/A
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		N/A
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		Pass
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. <i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 2th Ed. U.S.A. NATIONAL DIFFERENCES Audio/video, information and communication technology equipment – Part 1: Safety requirements	
Differences according to	CSA/UL 62368-1:2014
Attachment Form No.	US&CA_ND_IEC623681B
Attachment Originator	UL(US)
Master Attachment	Date 2015-06
Copyright © 2015 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

IEC 62368-1 - US and Canadian National Differences Special National Conditions based on Regulations and Other National Differences			
1.1	All equipment is to be designed to allow installation according to the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the 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.	Comply	Pass
1.4	Additional requirements apply to some forms of power distribution equipment, including sub-assemblies.		N/A
4.1.17	For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g., DP, CL2) specified in the NEC.		N/A
	For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the NEC generally are required to have special construction features and identification markings.		N/A
4.8	Lithium coin / button cell batteries have modified special construction and performance requirements.		N/A
5.6.3	Protective earthing conductors comply with the minimum conductor sizes in Table G.5, except as required by Table G.7ADV.1 for cord connected equipment, or Annex DVH for permanently connected equipment		N/A
5.7.7	Equipment intended to receive telecommunication ringing signals complies with a special touch current measurement tests.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
6.5.1	PS3 wiring outside a fire enclosure complies with single fault testing in B.4, or be current limited per one of the permitted methods.		N/A
Annex F (F.3.3.8)	Output terminals provided for supply of other equipment, except mains, supply are marked with a maximum rating or references to which equipment it is permitted to be connected.		N/A
Annex G (G.7.1)	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.		N/A
Annex G (G.7.3)	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.		N/A
	Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.		N/A
Annex G (G.7.5)	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
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.		N/A
Annex H.4	For circuits with other than ringing signals and with voltages exceeding 42.4 V _{peak} or 60 V d.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 M	Battery packs for stationary applications comply with special component requirements.		N/A
Annex DVA (1)	Equipment intended for use in spaces used for environmental air are subjected to special flammability requirements for heat and visible smoke release.		N/A
	For ITE room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.		N/A
	Consumer products designed or intended primarily for children 12 years of age or younger are subject to additional requirements in accordance with U.S. & Canadian Regulations.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	Baby monitors additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.		N/A
Annex DVA (5.6.3)	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.		Pass
Annex DVA (6.3)	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30.		N/A
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) 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 min. flammability classification of V-1.		N/A
Annex DVA (10.3.1)	Equipment with lasers meets the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).		N/A
Annex DVA (10.5.1)	Equipment that produces ionizing radiation complies 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.3.3.3)	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 are lower than the "Normal Operating Condition" in Table 2 of CAN/CSA C22.2 No. 235."		N/A
Annex DVA (F.3.3.5)	Equipment identified for ITE (computer) room installation is marked with the rated current		N/A
Annex DVA (G.1)	Vertically-mounted disconnect switches and circuit breakers have the "on" position indicated by the handle in the up 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.		N/A
Annex DVA (G.4.2)	Equipment with isolated ground (earthing) receptacles complies with NEC 250.146(D) and CEC 10-112 and 10-906(8).		N/A
Annex DVA (G.4.3)	Where a fuse is used to provide Class 2 or Class 3 current limiting, it is not operator-accessible unless it is non- interchangeable.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
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.		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 (Annex M)	For ITE room applications, equipment with battery systems capable of supplying 750 VA for five minutes have a battery disconnect means that may be connected to the ITE room remote power-off circuit.		N/A
Annex DVA (Q)	Wiring terminals intended to supply Class 2 outputs according to the NEC or CEC Part 1 are marked with the voltage rating and "Class 2" or equivalent; marking is located adjacent to the terminals and visible during wiring.		N/A
Annex DVB (1)	Additional requirements apply for equipment used for entertainment purposes intended for installation in general patient care areas of health care facilities.		N/A
Annex DVC (1)	Additional requirements apply for equipment intended for mounting under kitchen cabinets.		N/A
Annex DVE (4.1.1)	Some equipment, components, sub-assemblies and materials associated with the risk of fire, electric shock, or personal injury have component or material ratings in accordance with the applicable national (U.S. and Canadian) component or material requirements. Components required to comply include: appliance couplers, attachment plugs, battery back-up systems, battery packs, circuit breakers, communication circuit accessories, connectors (used for current interruption of non-LPS circuits), power supply cords, direct plug-in equipment, electrochemical capacitor modules (energy storage modules with ultra-capacitors), enclosures (outdoor), flexible cords and cables, fuses (branch circuit), ground-fault current interrupters, interconnecting cables, data storage equipment, printed wiring, protectors for communications circuits, receptacles, surge protective devices, vehicle battery adapters, wire connectors, and wire and cables.		Pass
Annex DVH	Equipment for permanent connection to the mains supply is subjected to additional requirements.		N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Annex DVH (DVH.1)	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains are in accordance with the NEC/CEC.		N/A
Annex DVH (DVH.3.2)	Terminals for permanent wiring, including protective earthing terminals, are suitable for U.S./Canadian wire gauge sizes, rated 125 percent of the equipment rating, and are specially marked when specified.		N/A
Annex DVH (DVH.3.2)	Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm ²).		N/A
Annex DVH (DVH.4)	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.		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, complies with special earthing, wiring, marking and installation instruction requirements.		N/A
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.		N/A
Annex DVJ (10.6.1)	Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements.		N/A

Enclosures

Enclosures

Type	Supplement Id	Description
Photographs	03-01	Overall view 1
Photographs	03-02	Overall view 2
Photographs	03-03	Overall view 3
Photographs	03-04	Overall view 4
Photographs	03-05	Overall view 5
Photographs	03-06	Internal view 1
Photographs	03-07	Internal view 2
Photographs	03-08	Internal view 3
Photographs	03-09	Internal view 4
Photographs	03-10	Internal view 5
Photographs	03-11	Internal view 6
Photographs	03-12	Internal view 7
Photographs	03-13	Internal view 8
Photographs	03-14	Internal view 9
Photographs	03-15	Overall view with adjustable stand(HL22H)
Photographs	03-16	Power Entry Module
Photographs	03-17	EMI Filter
Diagrams	04-01	RB67G with stand size
Diagrams	04-02	RB67G Drawing
Diagrams	04-03	RC67R with stand size
Diagrams	04-04	RC67R Drawing
Diagrams	04-05	Cable, Connect Port J18
Diagrams	04-06	Spec of Step Motor
Diagrams	04-07	Spec of DC Gear Motor
Diagrams	04-08	Adjustable stand(HL22H)
Miscellaneous	07-01	Manufacturer's Declaration
Miscellaneous	07-02	IEC62471 Report
Miscellaneous	07-03	Model Differences
Licenses	08-01	Cert for Build-in Power Supply
Marking Plate	13-01	Model BCLAA-1915
Marking Plate	13-02	Model RB67G

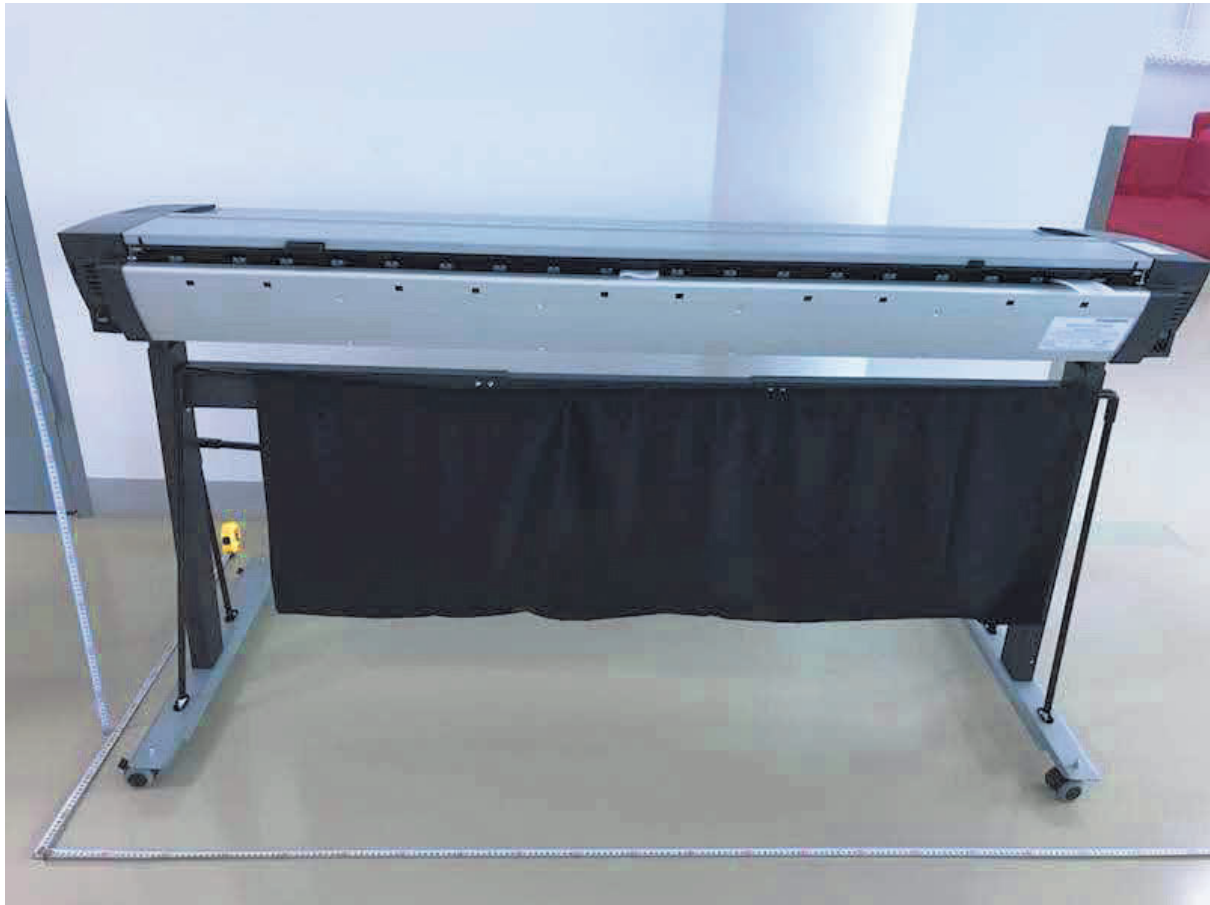
Enclosures

Photographs ID 03-01

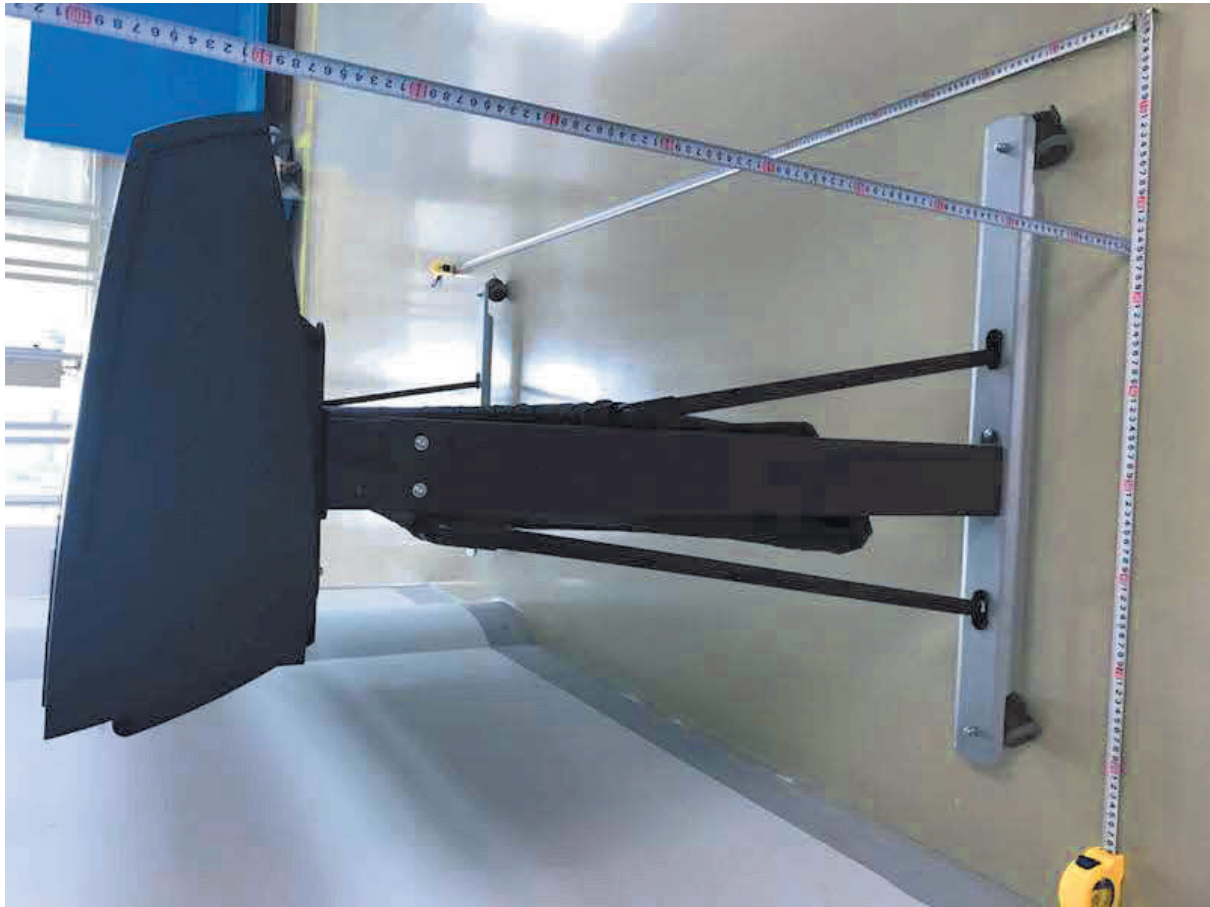


Enclosures

Photographs ID 03-02



Photographs ID 03-03



Enclosures

Photographs ID 03-04



Enclosures

Photographs ID 03-05



Enclosures

Photographs ID 03-06



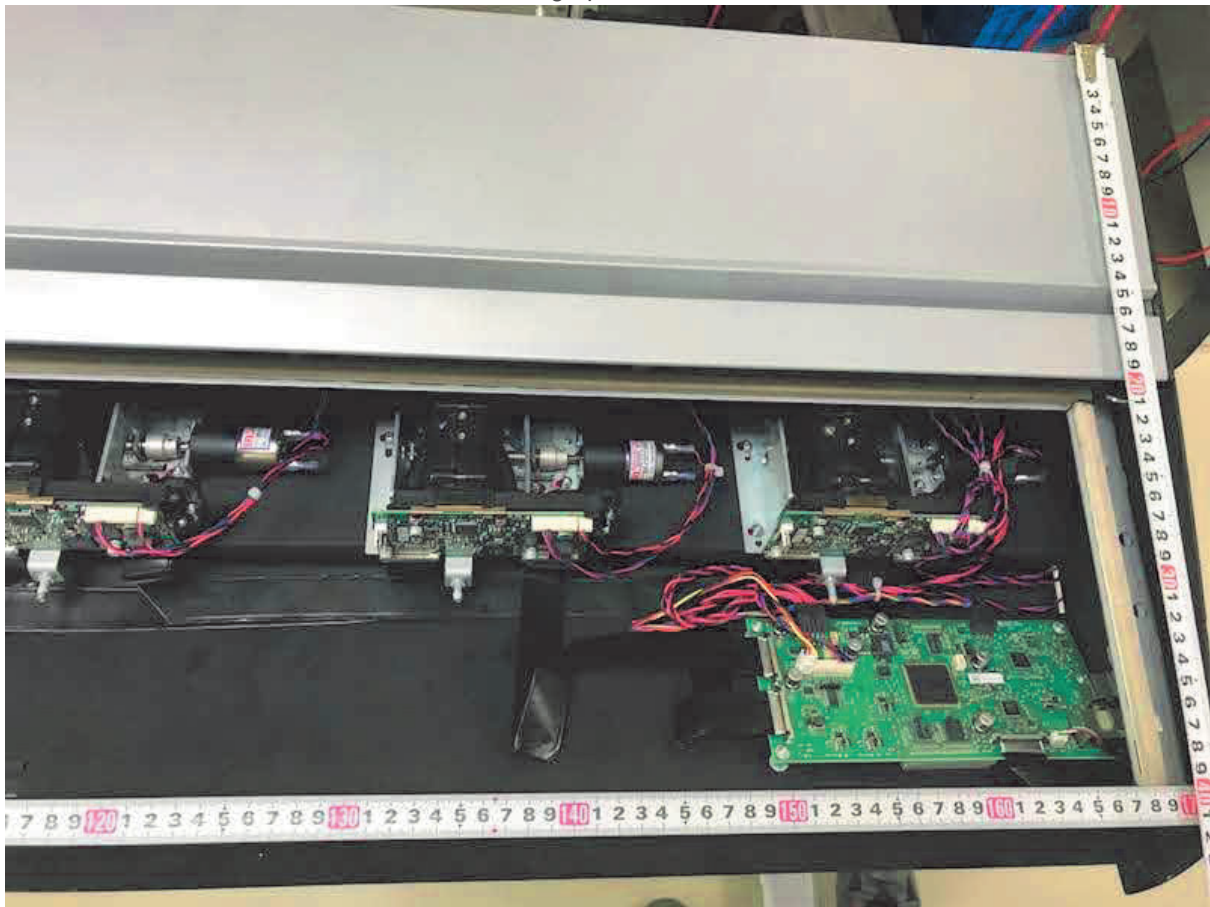
Enclosures

Photographs ID 03-07



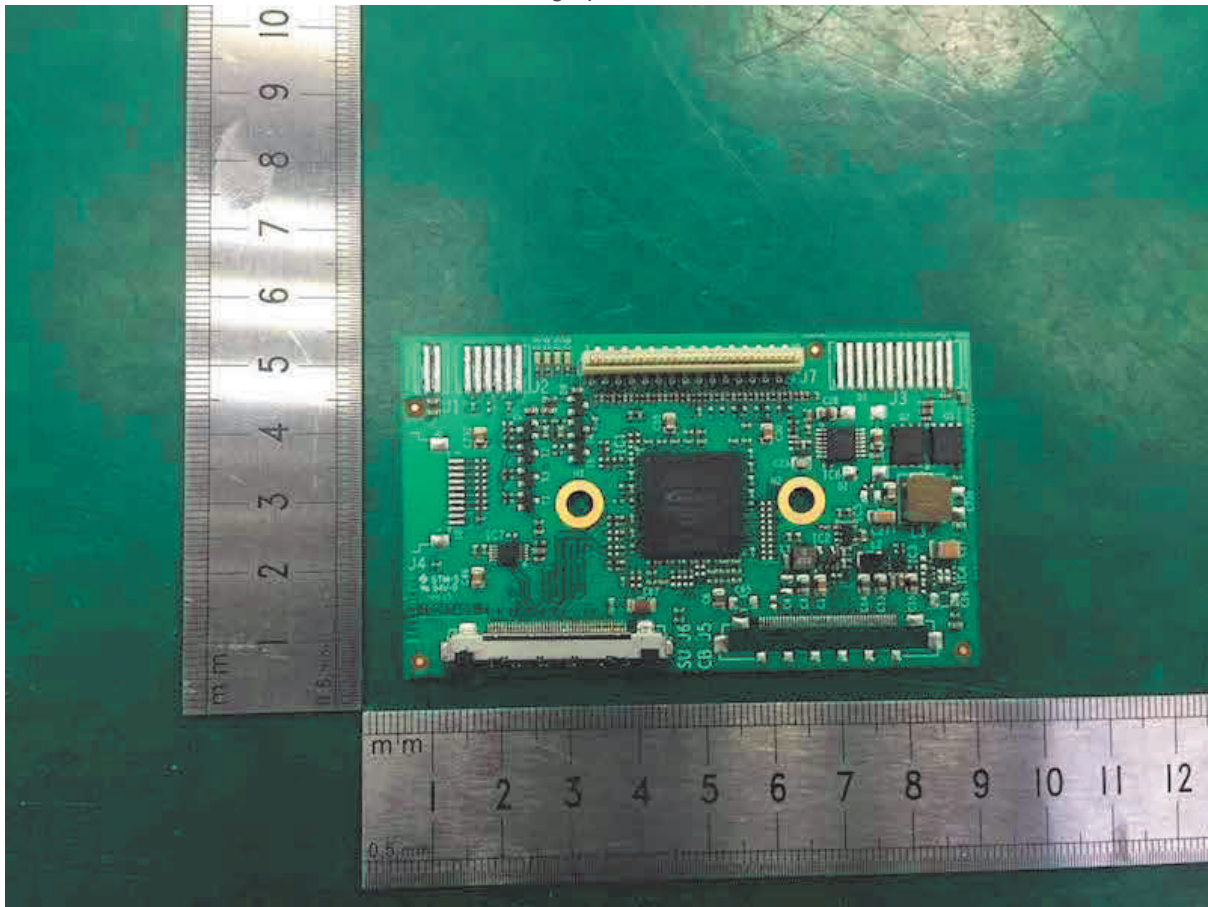
Enclosures

Photographs ID 03-08



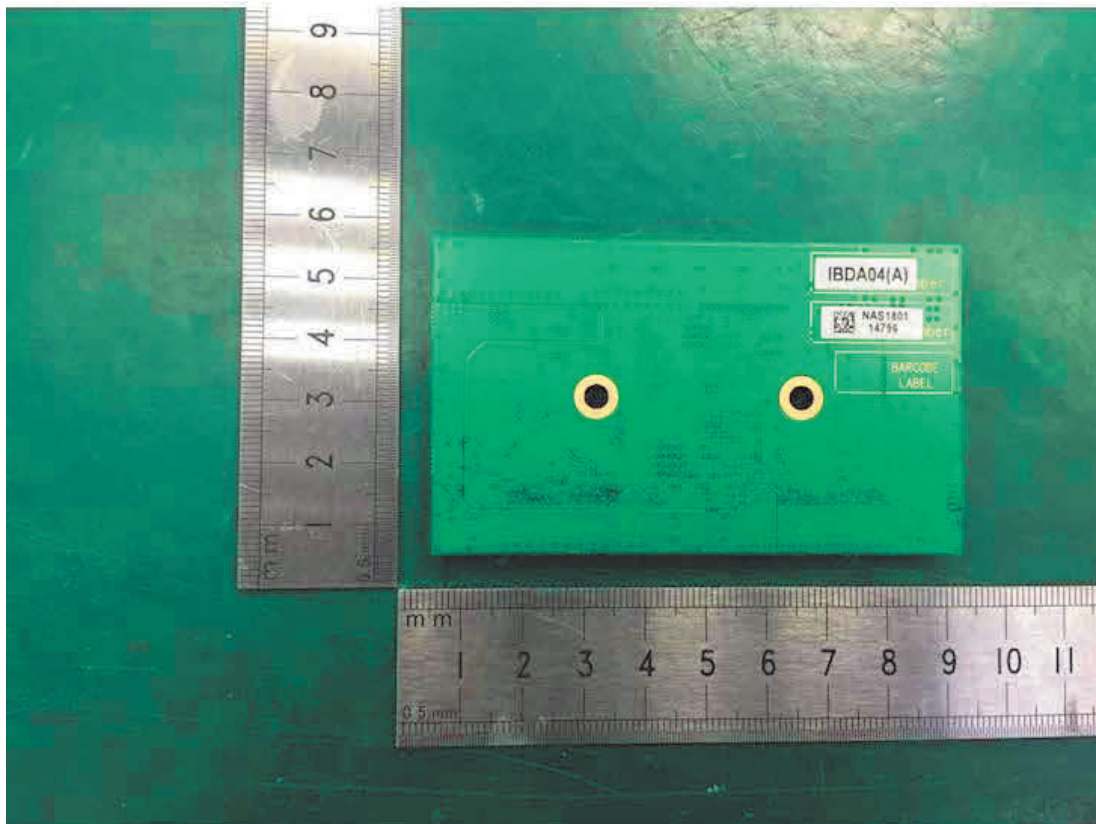
Enclosures

Photographs ID 03-09



Enclosures

Photographs ID 03-10



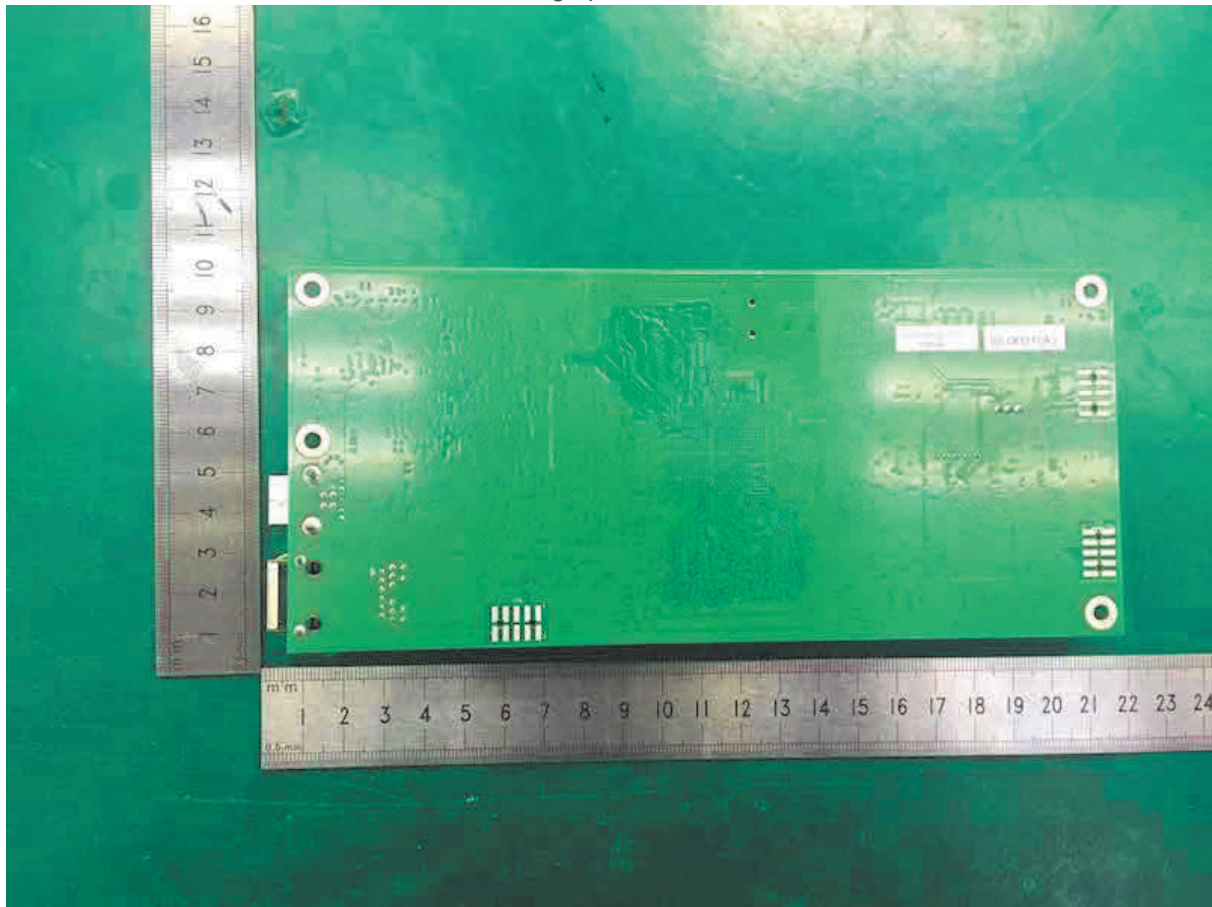
Enclosures

Photographs ID 03-11



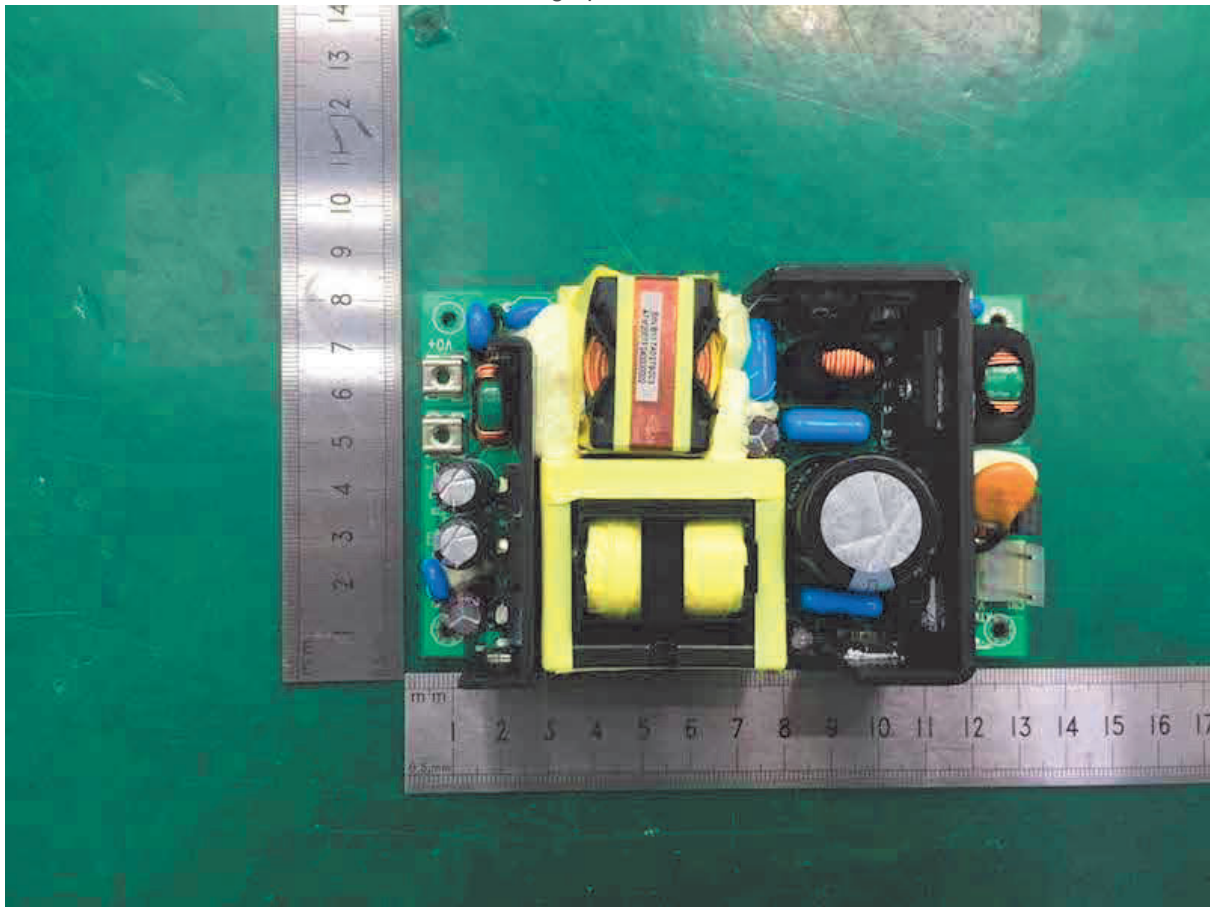
Enclosures

Photographs ID 03-12



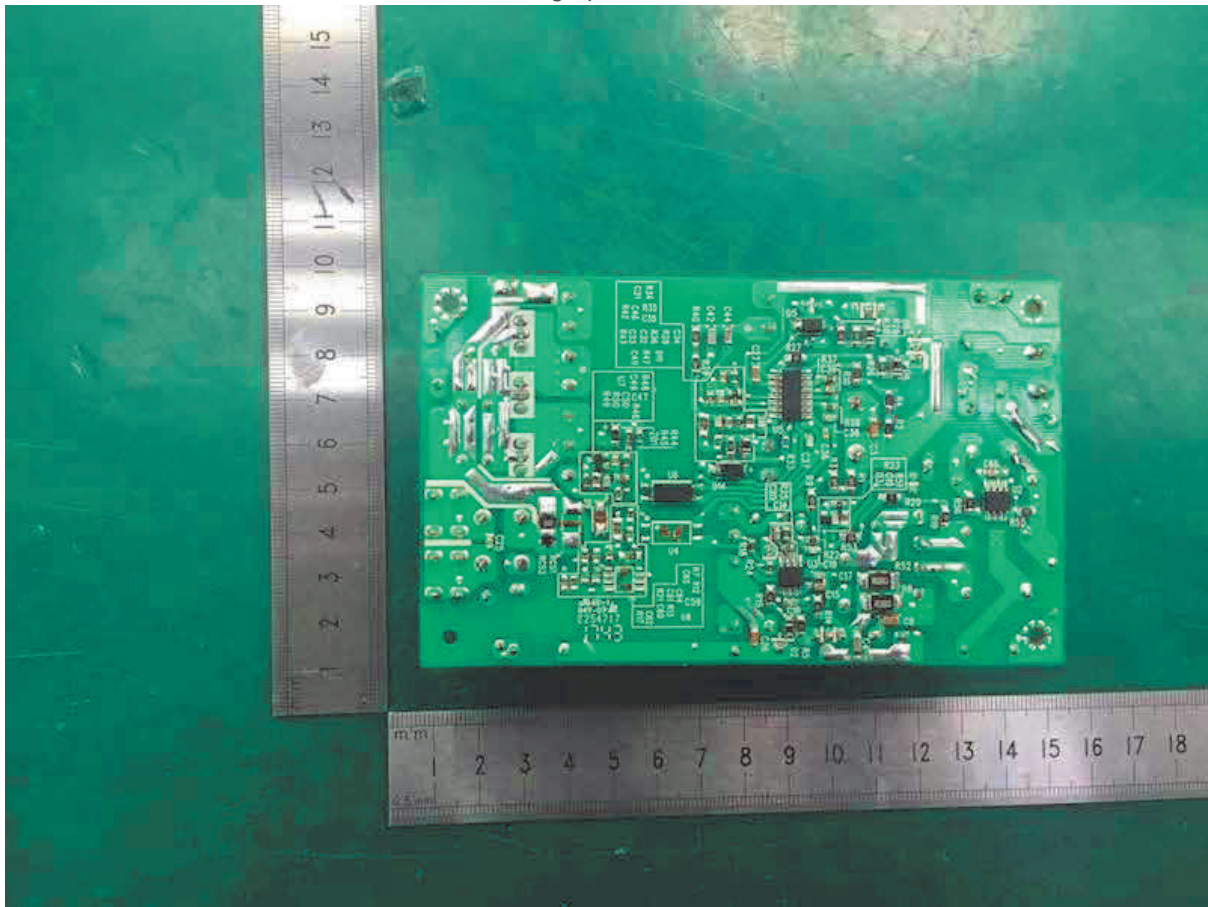
Enclosures

Photographs ID 03-13



Enclosures

Photographs ID 03-14



Enclosures

Photographs ID 03-15



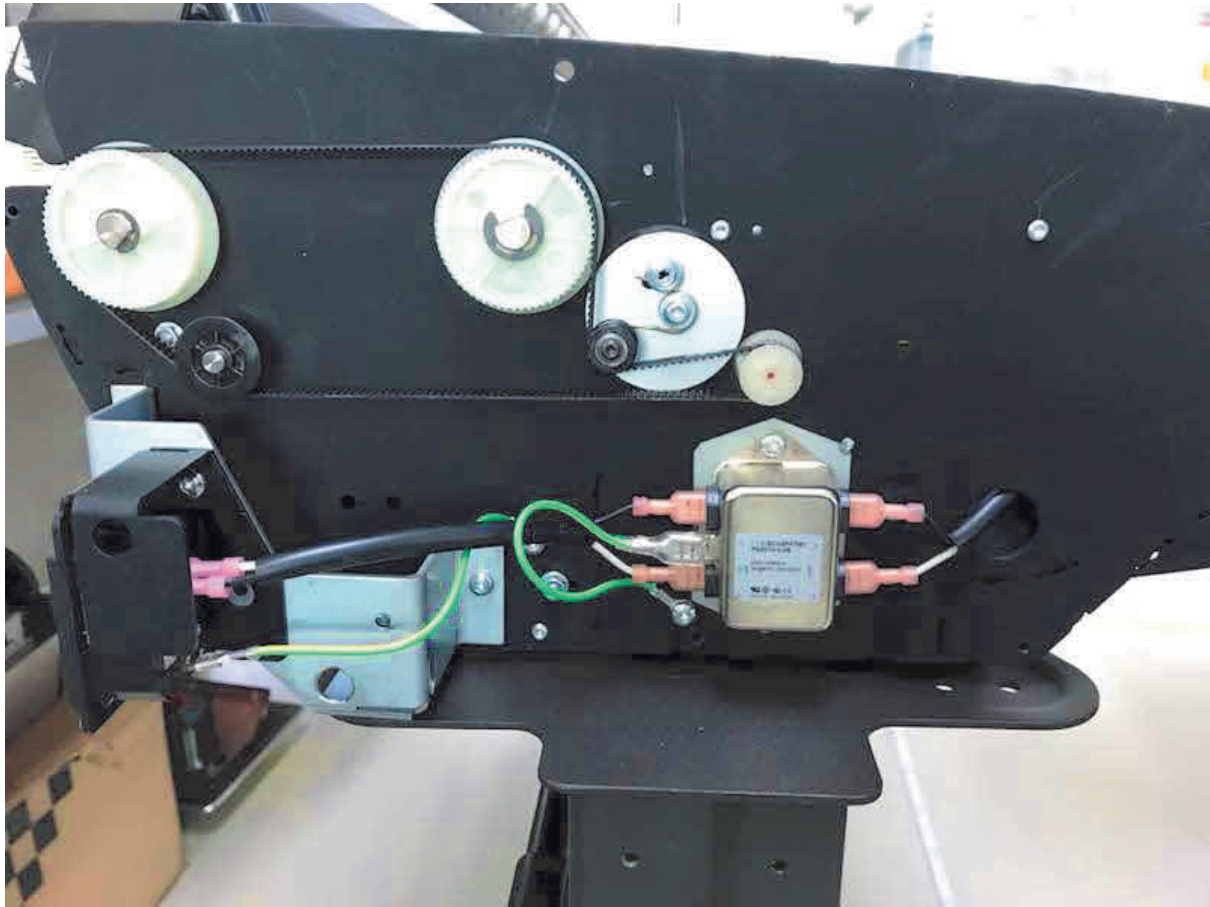
Enclosures

Photographs ID 03-16

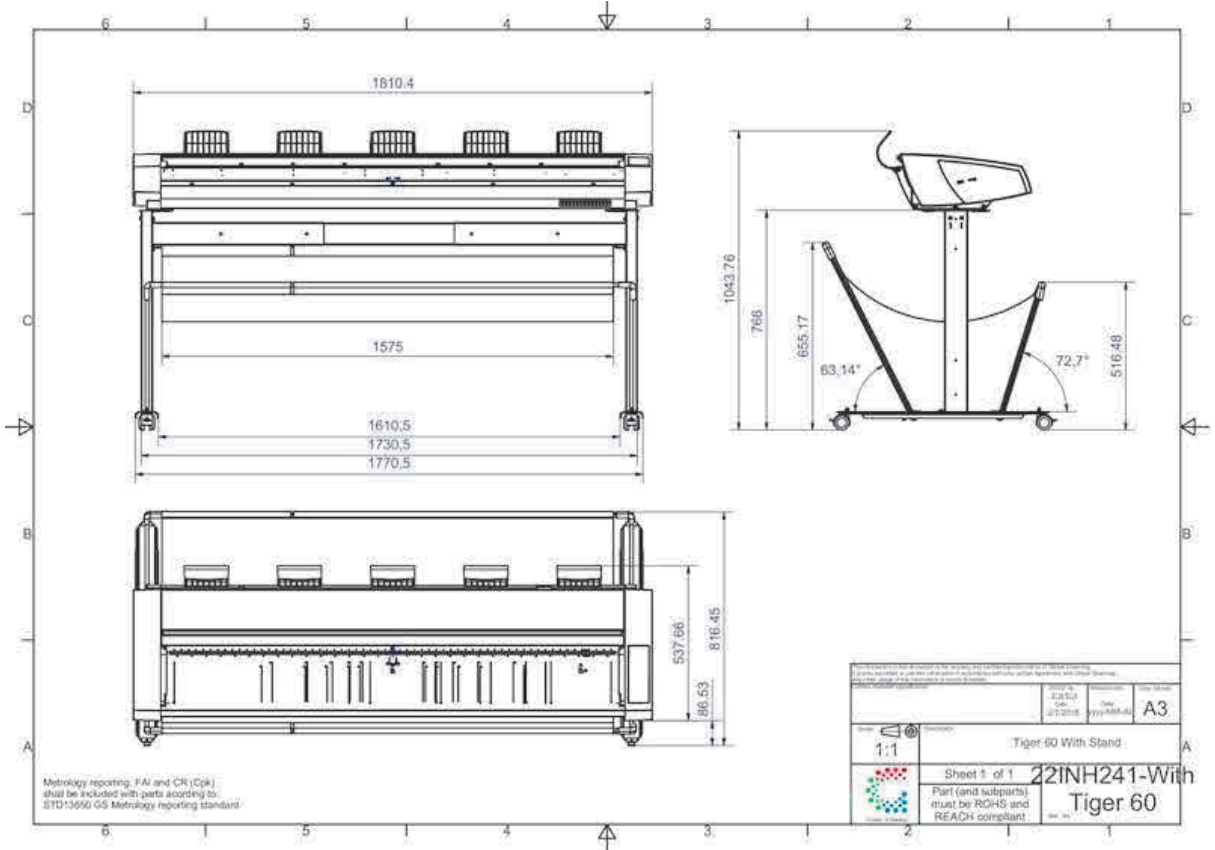


Enclosures

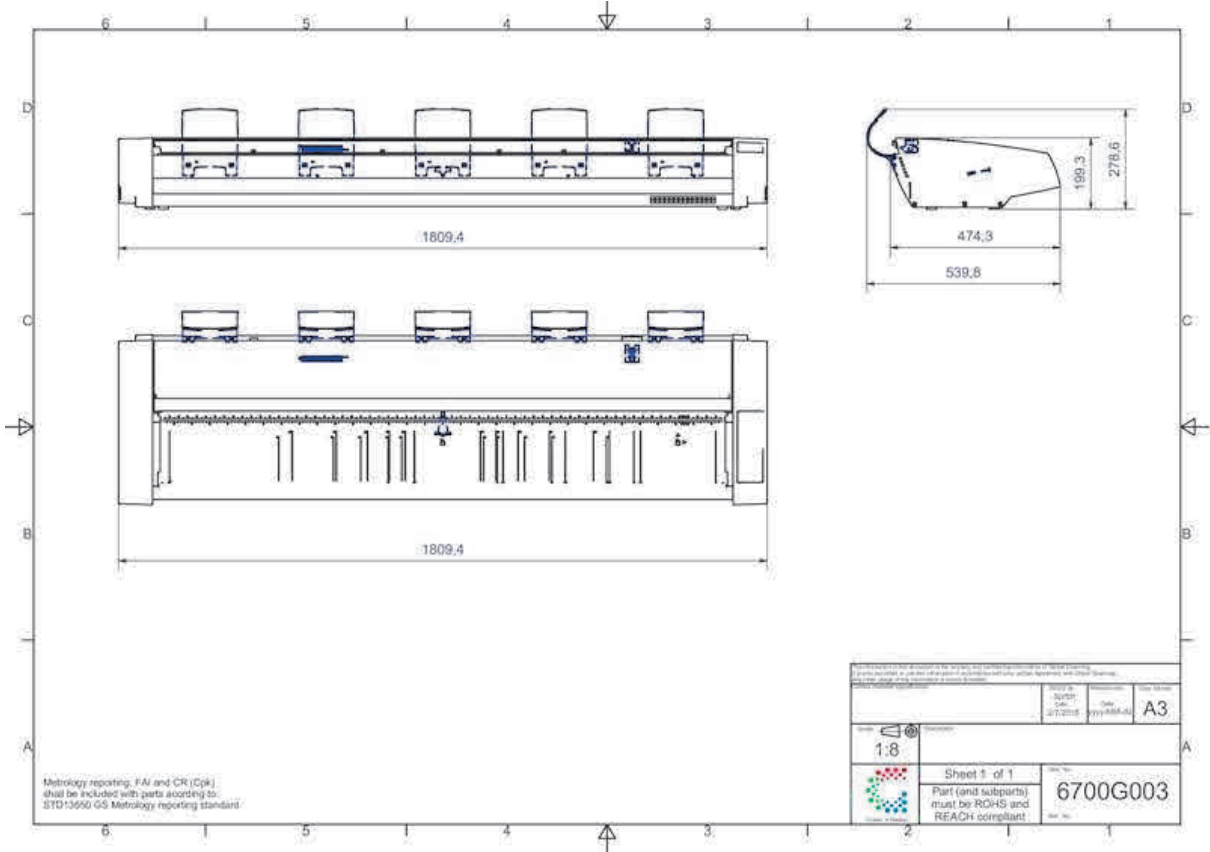
Photographs ID 03-17



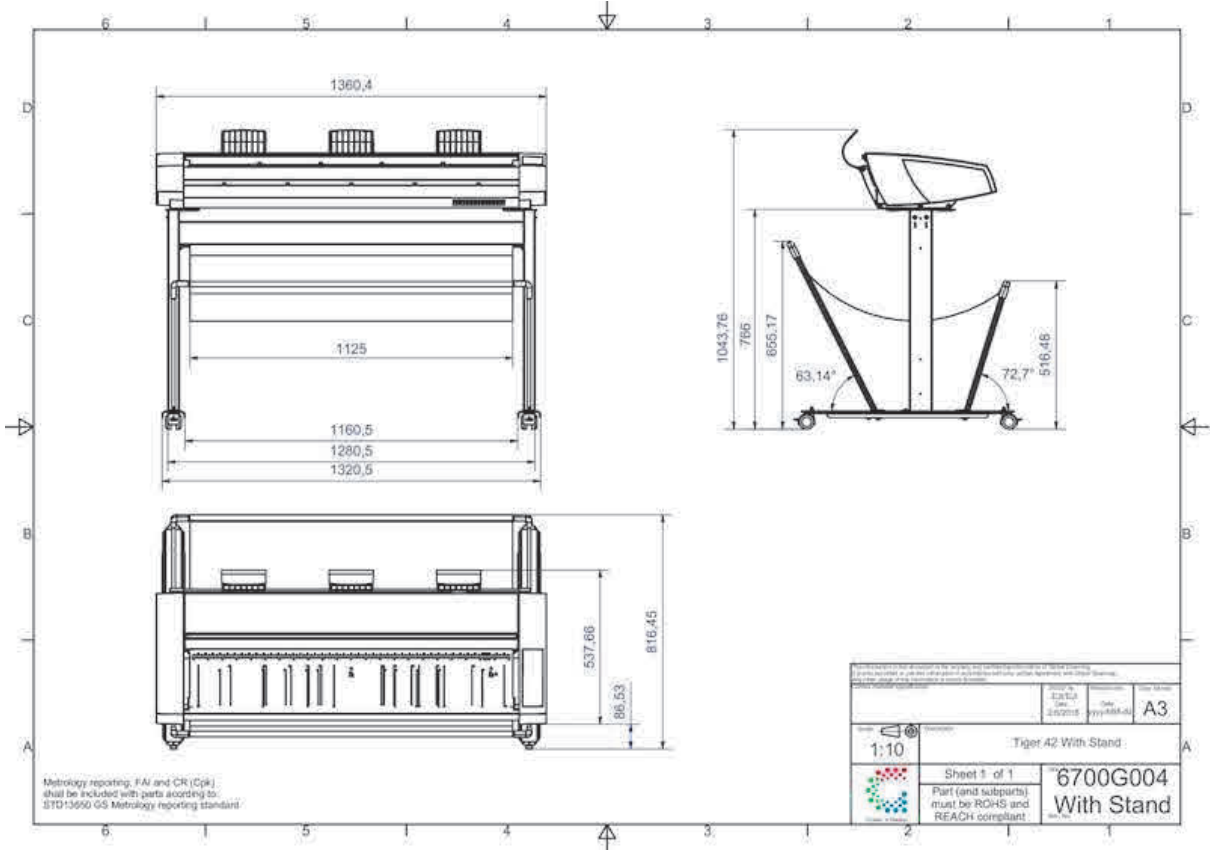
Diagrams ID 04-01



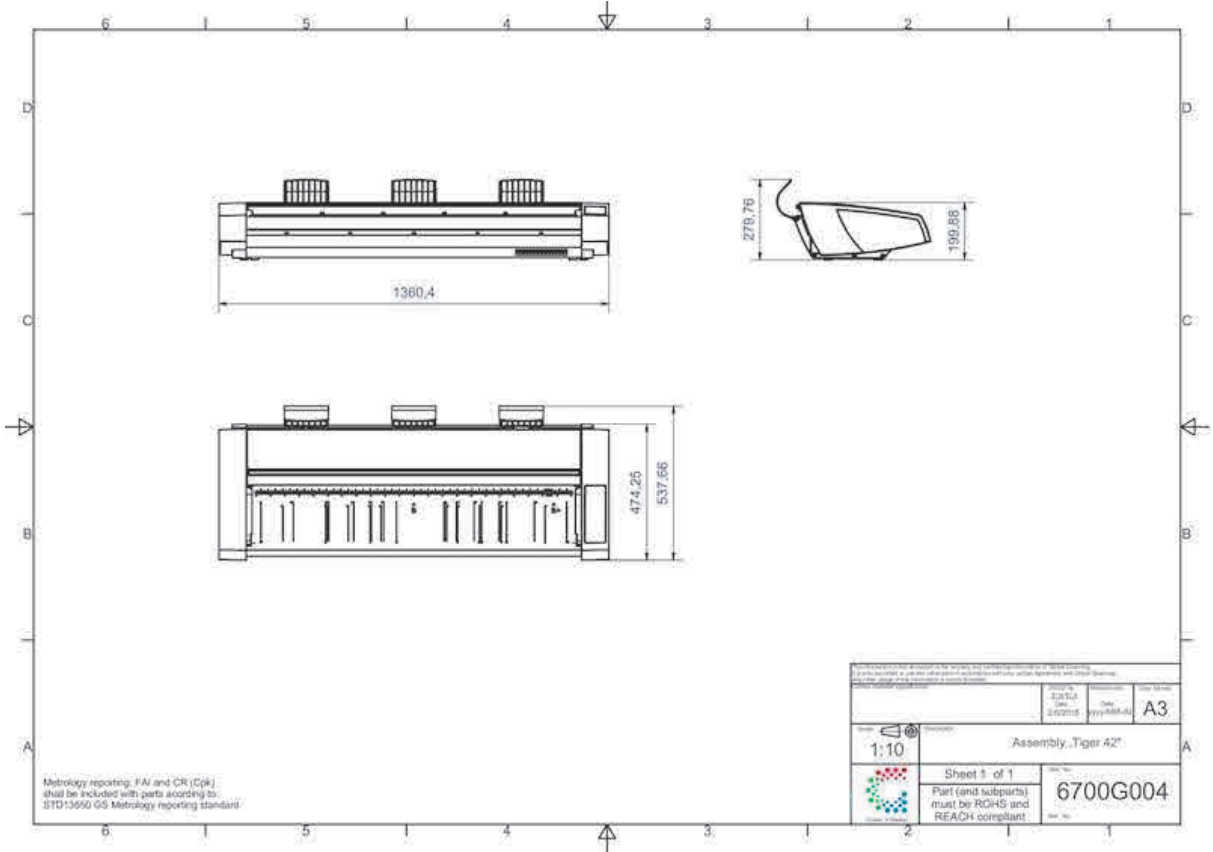
Diagrams ID 04-02



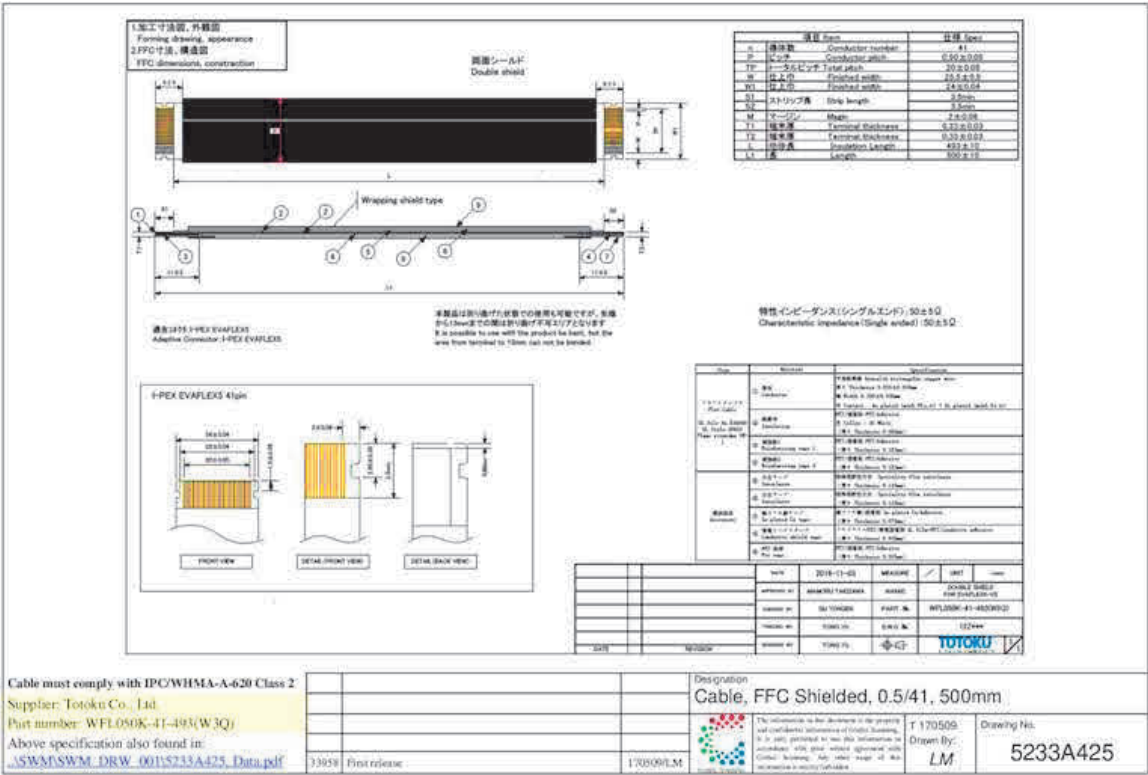
Diagrams ID 04-03



Diagrams ID 04-04



Diagrams ID 04-05



Enclosures

Diagrams ID 04-06

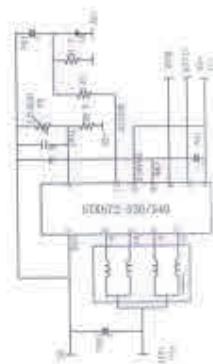
[illegible]

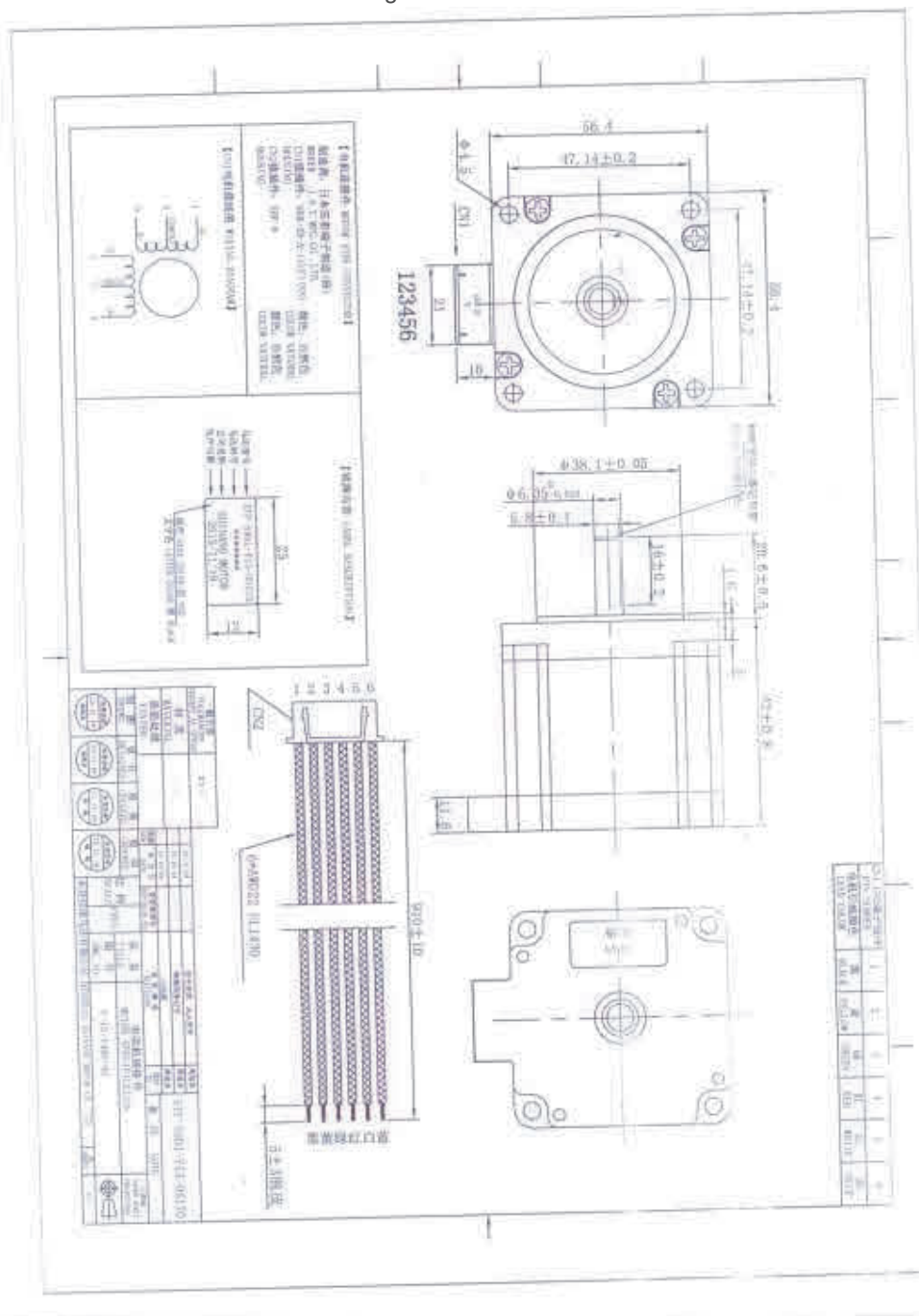
Enclosures

Diagrams ID 04-06

[illegible]

Year	1990	1991	1992	1993	1994	1995
1990	1.0	1.0	1.0	1.0	1.0	1.0
1991	1.0	1.0	1.0	1.0	1.0	1.0
1992	1.0	1.0	1.0	1.0	1.0	1.0
1993	1.0	1.0	1.0	1.0	1.0	1.0
1994	1.0	1.0	1.0	1.0	1.0	1.0
1995	1.0	1.0	1.0	1.0	1.0	1.0

[illegible][illegible]



Enclosures

Diagrams ID 04-07

 **祥能精機股份有限公司**
HSIANG NENG DC MOTOR MANUFACTURING CORP.
■專業設計・精密製造・直流馬達・減速馬達
■PROFICIENT DESIGN & MANUFACTURING
DC MOTOR, GEAR HEAD MOTOR

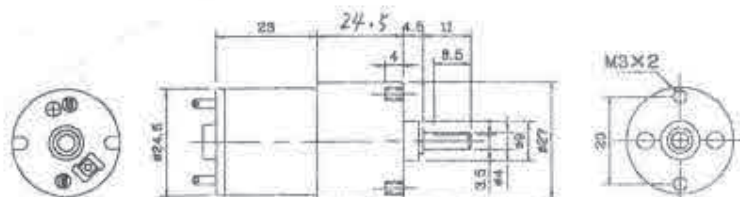
地址：台灣省彰化縣員林鎮萬年里萬年巷24-2號
NO.24-2 WANN NIAN LANE, YUAN LIN
CHANG HUA TAIWAN R. O. C.
TEL: 886-4-8359296 • 8350536-7
FAX: 886-4-8350639

SPECIFICATION SHEET

DATE: OCT.26,2010
NO.: HN10102601
PAGE: 1/3

CUSTOMER NAME: GCM A/S
TYPE: HN-GH27GMB TYPE
MODEL: HN-GH12-0953V + DC12V & 392:1
CUSTOMER PART NO.: 0080C017

I. OUTER DIMENSIONS



Enclosures

Diagrams ID 04-07



祥能精機股份有限公司
HSIANG NENG DC MOTOR MANUFACTURING CORP
專業設計・精密製造・直流馬達・減速馬達
PROFICIENT DESIGN & MANUFACTURING
DC MOTOR, GEAR HEAD MOTOR

地址：台灣省彰化縣員林鎮萬年里萬年巷24-2號
NO. 24-2 WANN NIAN LANE, YUAN LIN
CHANG HUA TAIWAN R. O. C.
TEL: 886-4-8358296 / 8350536-7
FAX: 886-4-8350639

SPECIFICATION SHEET

DATE: OCT.26,2018

NO.: HN10102601

PAGE: 2/3

CUSTOMER NAME: GCM A/S
TYPE: HN-GH27GMB TYPE
MODEL: HN-GH12-0953Y - DC12V & 392:1
CUSTOMER PART NO.: 0080C017

II. SPECIFICATIONS :

- I. TESTING CONDITIONS:
 - ENVIRONMENT TEMPERATURE: 25 DEGREES CELSIUS.
 - RELATED HUMIDITY: 60%.
 - TESTING POSITION: THE GEARMOTOR LIES IN HORIZONTAL POSITION.
2. RATED VOLTAGE(POWER SUPPLY): DC12V.
THE POWER SUPPLY MUST BE PURE DC(DIRECT CURRENT) AND CAN NOT CARRY ANY AC(ALTERNATING CURRENT)
3. GEAR RATIO: 392:1.
4. RATED LOAD AT DC12V : 1.10Kg-cm.
DON'T EXCEED RATED LOAD. OVERLOADING CAN CAUSE DAMAGE TO GEARMOTOR.
5. NO LOAD SPEED AT DC12V: 6.5RPM+/-1RPM
6. SPEED AT DC12V & RATED LOAD(1.10Kg-cm): 5RPM+/-1RPM.
7. NO LOAD CURRENT AT DC12V: LOWER THAN 40mA.
8. CURRENT AT DC12V & RATED LOAD(1.10Kg-cm): LOWER THAN 55mA.
9. SHAFT END PLAY: MAXIMUM 0.8mm.
10. INSULATION RESISTANCE: 10M ohm AT DC250V.
11. WITHSTAND VOLTAGE: DC250V FOR ONE SECOND.
12. THE GEARMOTOR IS NOT INTENDED FOR INSTANT REVERSE. BE SURE THE GEARMOTOR IS STOPPED BEFORE REVERSING.
13. THE GEARMOTOR DOESN'T HAVE ANY PROTECTIVE MEASURES LIKE WATER-PROOF, DUST- PROOF, ETC.... PLEASE USE IT IN THE NORMAL ENVIRONMENT AND TEMPERATURE.
14. IF YOU HAVE ANY QUESTIONS ABOUT THE SPECIFICATIONS AND DIMENSIONS, KINDLY PLEASE FEEL FREE TO CONTACT US.

Diagrams ID 04-07

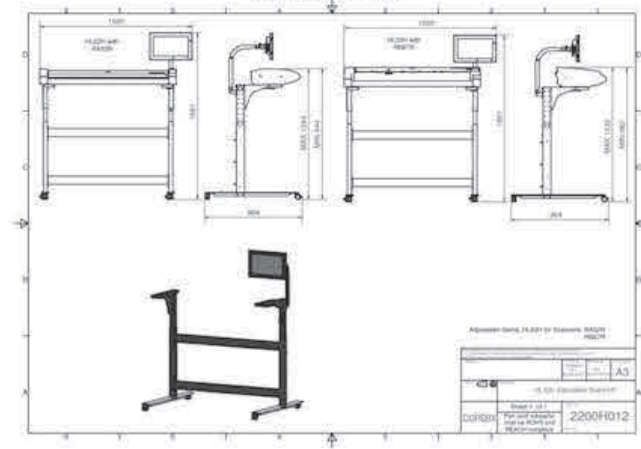


Enclosures

Diagrams ID 04-08

Enclosures

Diagrams ID 4-32



Enclosures

Miscellaneous ID 07-01

DRAFT CB TEST CERTIFICATE INFORMATION

Product	Wide Format Scanner
Name and address of the Applicant	GLOBAL SCANNING SUZHOU CO LTD BUILDING 39, DONGJING INDUSTRIAL ZONE NO. 9 DONGFU ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215123 CHINA CHINA
Name and address of the Manufacturer	GLOBAL SCANNING DENMARK A/S SVANEVANG 2 3450 ALLEROED DENMARK
Name and address of the Factory(ies)	GLOBAL SCANNING SUZHOU CO LTD BUILDING 39, DONGJING INDUSTRIAL ZONE NO. 9 DONGFU ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215123 CHINA GLOBAL SCANNING DENMARK A/S SVANEVANG 2 3450 ALLEROED DENMARK
Rating and principal characteristics	100 - 240Vac, 50 - 60Hz, 2A, 140W
Trademarks (if any)	HP or Context
Model / Type ref.	HP: BCLAA-1915; Context: RB67G, RC67G, RC67R
Additional information (if necessary)	IEC 62368-1:2014 (Second Edition)
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014 (Second Edition) EN 62368-1:2014 + A11:2017
As shown in the Test Report Ref. No. which forms part of this Certificate	E323749-A6002

Client Representative	Jack Gu
Client email (or fax)	j.gu@globalscanning.com

This form is to acknowledge that the above information has been reviewed and the material has been found to be accurate as stated. This is also to record client's confirmation that above factories

Enclosures

Miscellaneous ID 07-01

manufacture product(s) that are equal to those submitted for testing and certification. (Refer to IECEE 02, Sub-clause 4.2.5: "When the application covers more than one factory, the address of each factory shall be stated in the CB Test Certificate and the NCB shall take steps to ensure that the products from all the factories are equal. That shall be confirmed in the Test Report.")

Signed:



Dated: 2019-06-26

***Definitions per IECEE 02 (<http://www.iecee.com/cbscheme/pdf/IECEE02.pdf>):**

Applicant: A firm or a person who applies to an NCB for obtaining a CB Test Certificate.

Manufacturer: An organization, situated at a stated location or locations, that carries out or controls such stages in the manufacture, assessment, handling and storage of a product that enables it to accept responsibility for continued compliance of the product with the relevant requirements and undertakes all obligations in that connection.

Factory: The location(s) at which the product is produced or assembled and follow-up service is established by the NCB.

Enclosures

Miscellaneous ID 07-02

Page 1 of 19

			
TEST REPORT IEC 62471 Photobiological safety of lamps and lamp systems			
Report Reference No.	704021947503-00		
Date of issue	2019-06-03		
Total number of pages	19		
CB Testing Laboratory	TUV SUD Certification and Testing (China) Co., Ltd. Shanghai Branch		
Address	No.151 Heng Tong Road, Shanghai 200070 P.R. China		
Applicant's name	Global Scanning Suzhou Co., Ltd.		
Address	Building 39, Dongjing Industrial Zone, NO.9 Dongfu Road, Suzhou Industrial Park, 215123 Suzhou PEOPLE'S REPUBLIC OF CHINA		
Test specification:			
Standard	IEC 62471:2006 (First Edition)		
Test procedure	Without certification		
Non-standard test method	N/A		
Test Report Form No.	IEC62471A		
TRF Originator	VDE Testing and Certification Institute		
Master TRF	Dated 2009-05		
Copyright © 2009 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.			
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.			
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.			
Test item description	LED		
Trade Mark	N/A		
Manufacturer	Same as applicant		
Model/Type reference	NTSL757G-4000K		
Ratings	24Vd.c.; 23W		

Enclosures

Miscellaneous ID 07-02

Page 2 of 19

Report No.: 704021947503-00

Testing procedure and testing location:	
☒ Testing Laboratory:	TUV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing location/ address:	No. 1999, Duhui Road, Shanghai, 201108, P. R. China
☐ Associated CB Laboratory:	
Testing location/ address:	N/A
Tested by (name + signature):	Lichen WANG
Approved by (+ signature):	Xiaohui YANG
	
☐ Testing procedure: TMP	
Tested by (name + signature):	N/A
Approved by (+ signature):	N/A
Testing location/ address:	N/A
☐ Testing procedure: WMT	
Tested by (name + signature):	N/A
Witnessed by (+ signature):	N/A
Approved by (+ signature):	N/A
Testing location/ address:	N/A
☐ Testing procedure: SMT	
Tested by (name + signature):	N/A
Approved by (+ signature):	N/A
Supervised by (+ signature):	N/A
Testing location/ address:	N/A
☐ Testing procedure: RMT	
Tested by (name + signature):	N/A
Approved by (+ signature):	N/A
Supervised by (+ signature):	N/A
Testing location/ address:	N/A

Enclosures

Miscellaneous ID 07-02

Page 3 of 19

Report No.: 704021947503-00

Summary of testing:	
Tests performed (name of test and test clause): Complete tests are performed on NTSL757G-4000K. The model comply with the safety requirement.	Testing location: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No. 1999, Duhui Road, Shanghai, 201108, P. R. China
Summary of compliance with National Differences: Requirements for European group difference and National difference for EN 62471:2008 are taken into consideration	
Copy of marking plate: N/A	

Enclosures

Miscellaneous ID 07-02

Page 4 of 19

Report No.: 704021947503-00

Test item particulars	LED
Tested lamp	☒ continuous wave lamps ☐ pulsed lamps
Tested lamp system.....	LED
Lamp classification group	☒ exempt ☐ risk 1 ☐ risk 2 ☐ risk 3
Lamp cap	N/A
Bulb	N/A
Rated of the lamp	N/A
Furthermore marking on the lamp	N/A
Seasoning of lamps according IEC standard	N/A
Used measurement instrument.....	Digital power meter, spectroradiometric system, instant luminosity meter, Lux meter
Temperature by measurement.....	25 °C
Information for safety use	For general purpose use
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.....	2019-05-14
Date (s) of performance of tests	2019-05-14 to 2019-06-03
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. List of test equipment must be kept on file and available for review.	
Remark 1:	
The following contents are included and as attachments of this test report: ● Test report IEC 62471:2006 ● Appendix 1: Comprising deviation of EN 62471:2008	
Remark 2:	
Name of Factory: Global Scanning Suzhou Co., Ltd. Address: Building 39, Dongjing Industrial Zone, NO.9 Dongfu Road, Suzhou Industrial Park, 215123 Suzhou PEOPLE'S REPUBLIC OF CHINA	
General product information:	
After evaluations on the measurement results, The model is classified as Exempt Group.	

Enclosures

Miscellaneous ID 07-02

Page 5 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
4	EXPOSURE LIMITS		
4.1	General		
	The exposure limits in this standard is not less than 0,01 ms and not more than any 8-hour period and should be used as guides in the control of exposure		P
	Detailed spectral data of a light source are generally required only if the luminance of the source exceeds 10^4 cd m^{-2}		P
4.3	Hazard exposure limits		
4.3.1	Actinic UV hazard exposure limit for the skin and eye	LED lighting source	P
	The exposure limit for effective radiant exposure is 30 J m^{-2} within any 8-hour period		P
	To protect against injury of the eye or skin from ultraviolet radiation exposure produced by a broad-band source, the effective integrated spectral irradiance, E_s , of the light source shall not exceed the levels defined by:		P
	$E_s = t \cdot \sum_{299}^{400} E_{\lambda}(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta\lambda \leq 30 \quad \text{J m}^{-2}$		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		P
	$t_{\max} = \frac{30}{E_s} \quad \text{s}$		P
4.3.2	Near-UV hazard exposure limit for eye		
	For the spectral region 315 nm to 400 nm (UV-A) the total radiant exposure to the eye shall not exceed 10000 J m^{-2} for exposure times less than 1000 s. For exposure times greater than 1000 s (approximately 16 minutes) the UV-A irradiance for the unprotected eye, E_{UVA} , shall not exceed 10 W m^{-2} .		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:		P
	$t_{\max} \leq \frac{10000}{E_{UVA}} \quad \text{s}$		P
4.3.3	Retinal blue light hazard exposure limit		
	To protect against retinal photochemical injury from chronic blue-light exposure, the integrated spectral radiance of the light source weighted against the blue-light hazard function, $B(\lambda)$, i.e., the blue-light weighted radiance, L_B , shall not exceed the levels defined by:		P
	$L_B = t \cdot \sum_{380}^{700} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 10^6 \quad \text{J m}^{-2} \cdot \text{sr}^{-1}$	for $t \leq 10^4 \text{ s}$ $t_{\max} = \frac{10^6}{L_B}$	N/A

Enclosures

Miscellaneous ID 07-02

Page 6 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
	$I_E = \sum_{380}^{700} I_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2} \cdot sr^{-1}$	for $t > 10^4$ s	P
4.3.4	Retinal blue light hazard exposure limit - small source		
	Thus the spectral irradiance at the eye E_{λ} , weighted against the blue-light hazard function $B(\lambda)$ shall not exceed the levels defined by:		P
	$E_B \cdot t = \sum_{380}^{700} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad J \cdot m^{-2}$	for $t \leq 100$ s	N/A
	$E_B = \sum_{380}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda \leq 1 \quad W \cdot m^{-2}$	for $t > 100$ s	P
4.3.5	Retinal thermal hazard exposure limit:		
	To protect against retinal thermal injury, the integrated spectral radiance of the light source, L_{λ} , weighted by the burn hazard weighting function $R(\lambda)$ (from Figure 4.2 and Table 4.2), i.e., the burn hazard weighted radiance, shall not exceed the levels defined by:		P
	$I_{IR} = \sum_{380}^{1400} I_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{50\,000}{\alpha \cdot t^{0.25}} \quad W \cdot m^{-2} \cdot sr^{-1}$	$(10 \mu s \leq t \leq 10$ s)	P
4.3.6	Retinal thermal hazard exposure limit – weak visual stimulus		
	For an infrared heat lamp or any near-infrared source where a weak visual stimulus is inadequate to activate the aversion response, the near infrared (780 nm to 1400 nm) radiance, L_{IR} , as viewed by the eye for exposure times greater than 10 s shall be limited to:		P
	$I_{IR} = \sum_{780}^{1400} I_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{6\,000}{\alpha} \quad W \cdot m^{-2} \cdot sr^{-1}$	$t \geq 10$ s	P
4.3.7	Infrared radiation hazard exposure limits for the eye		
	The avoid thermal injury of the cornea and possible delayed effects upon the lens of the eye (cataractogenesis), ocular exposure to infrared radiation, E_{IR} , over the wavelength range 780 nm to 3000 nm, for times less than 1000 s, shall not exceed:		P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 18\,000 \cdot t^{-0.75} \quad W \cdot m^{-2}$	$t \leq 1000$ s	N/A
	For times greater than 1000 s the limit becomes:		P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2}$	$t > 1000$ s	P
4.3.8	Thermal hazard exposure limit for the skin:		

Enclosures

Miscellaneous ID 07-02

Page 7 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:		P
	$E_H = \sum_{380}^{3000} \sum_i E_{\lambda_i}(\lambda_i) \cdot \Delta\lambda \leq 20\,000 \cdot t^{0.25} \text{ J} \cdot \text{m}^{-2}$		P
5	MEASUREMENT OF LAMPS AND LAMP SYSTEMS		
5.1	Measurement conditions		
	Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification.		P
5.1.1	Lamp ageing (seasoning)		P
	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.		P
5.1.2	Test environment		P
	For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's recommendations.		P
5.1.3	Extraneous radiation		P
	Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results.		P
5.1.4	Lamp operation		P
	Operation of the test lamp shall be provided in accordance with:		P
	– the appropriate IEC lamp standard, or		P
	– the manufacturer's recommendation		N/A
5.1.5	Lamp system operation		P
	The power source for operation of the test lamp shall be provided in accordance with:		P
	– the appropriate IEC standard, or		P
	– the manufacturer's recommendation		N/A
5.2	Measurement procedure		
5.2.1	Irradiance measurements		P
	Minimum aperture diameter 7mm.		N/A
	Maximum aperture diameter 50 mm.		P
	The measurement shall be made in that position of the beam giving the maximum reading.		P
	The measurement instrument is adequate calibrated.		P
5.2.2	Radiance measurements		P
5.2.2.1	Standard method		N/A

Enclosures

Miscellaneous ID 07-02

Page 8 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
	The measurements made with an optical system.		N/A
	The instrument shall be calibrated to read in absolute radiant power per unit receiving area and per unit solid angle to acceptance averaged over the field of view of the instrument.		N/A
5.2.2.2	Alternative method		P
	Alternatively to an imaging radiance set-up, an irradiance measurement set-up with a circular field stop placed at the source can be used to perform radiance measurements.		P
5.2.3	Measurement of source size		P
	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.		P
5.2.4	Pulse width measurement for pulsed sources		N/A
	The determination of Δt , the nominal pulse duration of a source, requires the determination of the time during which the emission is $> 50\%$ of its peak value.		N/A
5.3	Analysis methods		
5.3.1	Weighting curve interpolations		P
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.	see table 4.1	P
5.3.2	Calculations		P
	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy.		P
5.3.3	Measurement uncertainty		N/A
	The quality of all measurement results must be quantified by an analysis of the uncertainty.	see Annex C in the norm	N/A
6	LAMP CLASSIFICATION		
	For the purposes of this standard it was decided that the values shall be reported as follows:		P
	– for lamps intended for general lighting service, the hazard values shall be reported as either irradiance or radiance values at a distance which produces an illuminance of 500 lux, but not at a distance less than 200 mm		P
	– for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm		N/A
6.1	Continuous wave lamps		

Enclosures

Miscellaneous ID 07-02

Page 9 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
6.1.1	Exempt Group		
	In the except group are lamps, which does not pose any photobiological hazard. The requirement is met by any lamp that does not pose:		P
	– an actinic ultraviolet hazard (E_a) within 8-hours exposure (30000 s), nor		P
	– a near-UV hazard (E_{UVA}) within 1000 s, (about 16 min), nor		P
	– a retinal blue-light hazard (L_b) within 10000 s (about 2.8 h), nor		P
	– a retinal thermal hazard (L_t) within 10 s, nor		P
	– an infrared radiation hazard for the eye (E_R) within 1000 s		P
6.1.2	Risk Group 1 (Low-Risk)		
	In this group are lamps, which exceeds the limits for the except group but that does not pose:		N/A
	– an actinic ultraviolet hazard (E_a) within 10000 s, nor		N/A
	– a near ultraviolet hazard (E_{UVA}) within 300 s, nor		N/A
	– a retinal blue-light hazard (L_b) within 100 s, nor		N/A
	– a retinal thermal hazard (L_t) within 10 s, nor		N/A
	– an infrared radiation hazard for the eye (E_R) within 100 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (L_{IR}), within 100 s are in Risk Group 1.		N/A
6.1.3	Risk Group 2 (Moderate-Risk)		
	This requirement is met by any lamp that exceeds the limits for Risk Group 1, but that does not pose:		N/A
	– an actinic ultraviolet hazard (E_a) within 1000 s exposure, nor		N/A
	– a near ultraviolet hazard (E_{UVA}) within 100 s, nor		N/A
	– a retinal blue-light hazard (L_b) within 0.25 s (aversion response), nor		N/A
	– a retinal thermal hazard (L_t) within 0.25 s (aversion response), nor		N/A
	– an infrared radiation hazard for the eye (E_R) within 10 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (L_{IR}), within 10 s are in Risk Group 2.		N/A
6.1.4	Risk Group 3 (High-Risk)		
	Lamps which exceed the limits for Risk Group 2 are in Group 3.		N/A

Enclosures

Miscellaneous ID 07-02

Page 10 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict
6.2	Pulsed lamps		
	Pulse lamp criteria shall apply to a single pulse and to any group of pulses within 0,25 s.		N/A
	A pulsed lamp shall be evaluated at the highest nominal energy loading as specified by the manufacturer.		N/A
	The risk group determination of the lamp being tested shall be made as follows:		N/A
	– a lamp that exceeds the exposure limit shall be classified as belonging to Risk Group 3 (High-Risk)		N/A
	– for single pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance does is below the EL, shall be classified as belonging to the Exempt Group		N/A
	– for repetitively pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance dose is below the EL, shall be evaluated using the continuous wave risk criteria discussed in clause 6.1, using time averaged values of the pulsed emission		N/A

Enclosures

Miscellaneous ID 07-02

Page 11 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result - Remark	Verdict

Table 4.1: Spectral weighting function for assessing ultraviolet hazards for skin and eye			
Wavelength λ , nm	UV hazard function $S_w(\lambda)$	Wavelength λ , nm	UV hazard function $S_w(\lambda)$
200	0,030	313*	0,006
205	0,051	315	0,003
210	0,075	316	0,0024
215	0,095	317	0,0020
220	0,120	318	0,0016
225	0,150	319	0,0012
230	0,190	320	0,0010
235	0,240	322	0,00067
240	0,300	323	0,00054
245	0,360	325	0,00050
250	0,430	328	0,00044
254*	0,500	330	0,00041
255	0,520	333*	0,00037
260	0,650	335	0,00034
265	0,810	340	0,00028
270	1,000	345	0,00024
275	0,960	350	0,00020
280*	0,880	355	0,00016
285	0,770	360	0,00013
290	0,640	365*	0,00011
295	0,540	370	0,000093
297*	0,460	375	0,000077
300	0,300	380	0,000064
303*	0,120	385	0,000053
305	0,060	390	0,000044
308	0,026	395	0,000036
310	0,015	400	0,000030

Wavelengths chosen are representative; other values should be obtained by logarithmic interpolation at intermediate wavelengths.

* Emission lines of a mercury discharge spectrum.

Enclosures

Miscellaneous ID 07-02

Page 12 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result - Remark	Verdict

Table 4.2	Spectral weighting functions for assessing retinal hazards from broadband optical sources		
Wavelength nm	Blue-light hazard function B (λ)	Burn hazard function R (λ)	
300	0,01		
305	0,01		
310	0,01		
315	0,01		
320	0,01		
325	0,01		
330	0,01		
335	0,01		
340	0,01		
345	0,01		
350	0,01		
355	0,01		
360	0,01		
365	0,01		
370	0,01		
375	0,01		
380	0,01	0,1	
385	0,013	0,13	
390	0,025	0,25	
395	0,05	0,5	
400	0,10	1,0	
405	0,20	2,0	
410	0,40	4,0	
415	0,80	8,0	
420	0,90	9,0	
425	0,95	9,5	
430	0,98	9,8	
435	1,00	10,0	
440	1,00	10,0	
445	0,97	9,7	
450	0,94	9,4	
455	0,90	9,0	
460	0,80	8,0	
465	0,70	7,0	
470	0,62	6,2	
475	0,55	5,5	
480	0,45	4,5	
485	0,40	4,0	
490	0,22	2,2	
495	0,16	1,6	
500-600	$10^{(455-λ)/600}$	1,0	
600-700	0,001	1,0	
700-1050		$10^{(700-λ)/300}$	
1050-1150		0,2	
1150-1200		$0,2 \cdot 10^{(λ-1150)/150}$	
1200-1400		0,02	

Enclosures

Miscellaneous ID 07-02

Page 13 of 19

Report No.: 704021947503-00

IEC 62471			
Clause	Requirement + Test	Result - Remark	Verdict

Table 5.4 Summary of the ELs for the surface of the skin or cornea (irradiance based values)					
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	EL in terms of constant irradiance $W m^{-2}$
Actinic UV skin & eye	$E_s = \sum E_{\lambda} \cdot S(\lambda) \cdot \Delta\lambda$	200 – 400	< 30000	1,4 (80)	3000
Eye UV-A	$E_{UVA} = \sum E_{\lambda} \cdot \Delta\lambda$	315 – 400	≤1000 >1000	1,4 (80)	100000 10
Blue-light small source	$E_B = \sum E_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda$	380 – 700	≤100 >100	< 0,011	1000 1,0
Eye IR	$E_{IR} = \sum E_{\lambda} \cdot \Delta\lambda$	780 – 3000	≤1000 >1000	1,4 (80)	180000 ^{0,75} 100
Skin thermal	$E_{IR} = \sum E_{\lambda} \cdot \Delta\lambda$	380 – 3000	< 10	2π sr	200000 ^{0,75}

Table 5.5 Summary of the ELs for the retina (radiance based values)					
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in terms of constant radiance $W m^{-2} sr^{-1}$
Blue light	$L_B = \sum L_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda$	380 – 700	0,25 – 10	0,011 · √(t/10)	10 ⁶ /t
			10-100	0,011	10 ⁶ /t
			100-10000	0,0011 · √t	10 ⁶ /t
			≥ 10000	0,1	100
Retinal thermal	$L_{IR} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 0,011 · √(t/10)	50000/(α t ^{0,25}) 50000/(α t ^{0,25})
Retinal thermal (weak visual stimulus)	$L_{IR} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda$	780 – 1400	> 10	0,011	6000/t

Enclosures

Miscellaneous ID 07-02

Page 14 of 19

Report No.: 704021947503-00

IEC 62471									
Clause	Requirement + Test			Result + Remark				Verdict	
Table 6.1		Emission limits for risk groups of continuous wave lamps							
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(A)$	E_v	$W \cdot m^{-2}$	0.001	$8,4 \times 10^{-6}$	0.003	—	0,03	—
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	$6,7 \times 10^{-6}$	33	—	100	—
Blue light	$B(A)$	L_a	$W \cdot m^{-2} \cdot sr^{-1}$	100	$3,4 \times 10^{-2}$	10000	$1,6 \times 10^{-1}$	4000000	$3,5 \times 10^{-1}$
Blue light, small source	$B(A)$	E_s	$W \cdot m^{-2}$	1,0*	$3,5 \times 10^{-3}$ ($\alpha=0.0035$)	1,0	—	400	—
Retinal thermal	$R(A)$	L_a	$W \cdot m^{-2} \cdot sr^{-1}$	26000/ α	$3,2 \times 10^0$	26000/ α	$3,2 \times 10^1$	71000/ α	$6,9 \times 10^1$
Retinal thermal, weak visual stimulus**	$R(A)$	L_a	$W \cdot m^{-2} \cdot sr^{-1}$	6000/ α	$2,9 \times 10^{-1}$	6000/ α	—	6000/ α	—
IR radiation, eye		E_R	$W \cdot m^{-2}$	100	0	570	—	3200	—

* Small source defined as one with $\alpha < 0,011$ radian. Averaging field of view at 10000 s is 0,1 radian.
** Involves evaluation of non-GLS source

TRF No. IEC62471A

Miscellaneous ID 07-02

Page 15 of 19

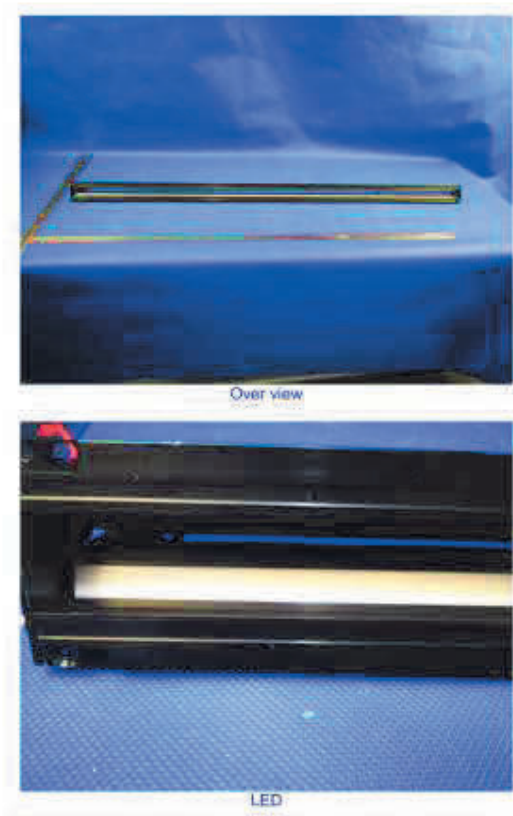
Report No.: 704021947503-00

IEC62471A – Appendix 1

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

Furthermore remarks:

1. Product photograph:



Miscellaneous ID 07-02

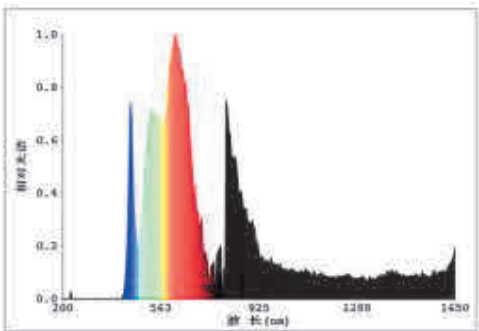
Page 16 of 19

Report No.: 704021947503-00

IEC62471A - Appendix 1

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

2. Spectrogram:



Enclosures

Miscellaneous ID 07-02

Page 17 of 19

Report No.: 704021947503-00

IEC62471A – Appendix 1			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62471 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Photobiological safety of lamps and lamps systems	
Differences according to.....	EN 62471:2008
Attachment Form No.....	EU_GD_IEC62471A
Attachment Originator.....	IMQ S.p.A.
Master Attachment.....	2009-07
Copyright © 2009 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

CENELEC COMMON MODIFICATIONS (EN)		
4	EXPOSURE LIMITS	
	Contents of the whole Clause 4 of IEC 62471:2006 moved into a new informative Annex ZB	—
	Clause 4 replaced by the following:	
	Limits of the Artificial Optical Radiation Directive (2006/25/EC) have been applied instead of those fixed in IEC 62471:2006	See appended Table 6.1
4.1	General	P
	First paragraph deleted	—

TRF No. IEC62471A

Enclosures

Miscellaneous ID 07-02

Page 18 of 19

Report No.: 704021947503-00

EN 62471									
Clause	Requirement + Test				Result – Remark				Verdict

Table 6.1 Emission limits for risk groups of continuous wave lamps (based on EU Directive 2014/35/EC)									
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{\alpha}(A)$	E_{α}	$W \cdot m^{-2}$	0.001	6.4×10^{-4}	—	—	—	—
Near UV		E_{UVA}	$W \cdot m^{-2}$	0.33	6.7×10^{-3}	—	—	—	—
Blue light	$B(A)$	L_e	$W \cdot m^{-2} \cdot sr^{-1}$	100	3.4×10^{-3}	10000	1.6×10^{-3}	4000000	3.5×10^{-1}
Blue light, small source	$B(A)$	E_{β}	$W \cdot m^{-2}$	0.01*	3.5×10^{-1}	1.0	—	400	—
Retinal thermal	$R(A)$	L_e	$W \cdot m^{-2} \cdot sr^{-1}$	28000/a	3.2×10^3	28000/a	3.2×10^3	71000/a	6.9×10^3
Retinal thermal, weak visual stimulus**	$R(X)$	L_e	$W \cdot m^{-2} \cdot sr^{-1}$	545000	2.9×10^{-1}				
				$0.00175 \leq a \leq 0.011$					
				6000/a	N/A				
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	0	570	—	3200	—

TRF No. IEC62471A

Miscellaneous ID 07-02

Page 19 of 19		Report No.: 704021947503-00	
EN 62471			
Clause	Requirement + Test	Result – Remark	Verdict
Table 6.1	Emission limits for risk groups of continuous wave lamps (based on EU Directive 2014/35/EC)		
* Small source defined as one with $\alpha < 0,011$ radian. Averaging field of view at 10000 s is 0.1 radian.			
** Involves evaluation of non-GLS source			
NOTE	The action functions: see Table 4.1 and Table 4.2		
	The applicable aperture diameters: see 4.2.1		
	The limitations for the angular subtenses: see 4.2.2		
	The related measurement condition 5.2.3 and the range of acceptance angles: see Table 5.5		

Enclosures

Miscellaneous ID 07-03

Model	Trademark	Dimension	Stand type	Panel PC provided	External power supply for Panel PC provided
BCLAA-1915 (consists of RC67R)	HP	42"	Low stand or adjustable stand	Yes	Yes
RB67G	Contex	60"	High stand	No	No
RC67G	Contex	42"	Low stand	No	No
RC67R	Contex	42"	Low stand or adjustable stand	No	No

Enclosures

Licenses ID 08-01

		Ref. Certif. No.
		DK-61775-UL
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC
CB TEST CERTIFICATE		
Product Produit	Open Frame Power Supply	
Name and address of the applicant Nom et adresse du demandeur	ADAPTER TECHNOLOGY CO LTD 8TH FL-9 258 LIANCHENG RD, ZHONGHE DISTRICT, NEW TAIPEI 235 TAIWAN	
Name and address of the manufacturer Nom et adresse du fabricant	ADAPTER TECHNOLOGY CO LTD 8TH FL-9 258 LIANCHENG RD, ZHONGHE DISTRICT, NEW TAIPEI 235 TAIWAN	
Name and address of the factory Nom et adresse de l'usine	Bosyang Electronics Co., Ltd. Di Feng Gong Ye Qu 2 Hao, Xiasha Liuwu Village, Shipai Town, Dong Guan City, Guang Dong Province, 523350, CHINA	
Note: When done from one factory, please report on page 2. Note: Lorsque il y a plus d'une usine, veuillez indiquer la 2^{ème} page	☐ Additional information on page 2 See Page 2	
Ratings and principal characteristics Valeurs nominales et caractéristiques principales		
Trademark (if any) Marque de fabrique (si elle existe)		
Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur	ATM200T-Fxxx See Page 2	
Model / Type Ref. Ref. De type		
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2 ^{ème} page	Additionally evaluated to EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013; National Differences specified in the CB Test Report ☐ Additional information on page 2 IEC 60950-1(ed.2), IEC 60950-1(ed.2):am1, IEC 60950-1(ed.2):am2	
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	1611013-CB issued on 2017-02-24	
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat		
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification		
		
☐ UL (US), 333 Piquette Rd E., 85002, Northbrook, USA ☒ UL (Denmark), Borsvangs SA DK-2750 Ballerup, DENMARK ☒ UL (JP), Marumachi Trust Tower Main Building 8F, 1-8-3 Marumachi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underminton Road, Toronto, M1R 3B4 Ontario, CANADA		
Date: 2017-03-02	Signature:	For full legal entity names see www.ul.com/cbschemes
Jan-Erik Storgaard		

Licenses ID 08-01

		Ref. Certif. No.																			
		DK-61775-UL																			
Model Details: ATM200T-Fxxx (Where "xxx" can be 120, 190, 240, 360 or 480). Ratings: Input Rating: 100-240Vac, 50-60Hz, 2.5A-0.9A Output Rating: <table><thead><tr><th>Model</th><th>Output Voltage</th><th>Output Current</th></tr></thead><tbody><tr><td>ATM200T-F120</td><td>12V</td><td>16A</td></tr><tr><td>ATM200T-F190</td><td>19V</td><td>10.5A</td></tr><tr><td>ATM200T-F240</td><td>24V</td><td>8.3A</td></tr><tr><td>ATM200T-F360</td><td>36V</td><td>5.5A</td></tr><tr><td>ATM200T-F480</td><td>48V</td><td>4.2A</td></tr></tbody></table>				Model	Output Voltage	Output Current	ATM200T-F120	12V	16A	ATM200T-F190	19V	10.5A	ATM200T-F240	24V	8.3A	ATM200T-F360	36V	5.5A	ATM200T-F480	48V	4.2A
Model	Output Voltage	Output Current																			
ATM200T-F120	12V	16A																			
ATM200T-F190	19V	10.5A																			
ATM200T-F240	24V	8.3A																			
ATM200T-F360	36V	5.5A																			
ATM200T-F480	48V	4.2A																			
Additional information (if necessary) Information complémentaire (si nécessaire)  ☐ UL (US), 333 Piquette Rd S, 60962, Northbrook, USA ☒ UL (Denmark), Borslyngvej 5A DK-2750 Ballerup, DENMARK ☒ UL (JP), Watanabe Trust Tower Main Building 8F, 3-6-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underwater Road, Toronto, M1H 1B4 Ontario, CANADA For full legal entity names see www.ul.com/en/branches Date: 2017-03-02 Signature:  Jan-Erik Storgaard																					

Marking Plate ID 13-01

Production Date



Mesin Pencetak:
Jenis Produk: Pencetak Berwarna

Mfg Date: Mn d, yyyy

SERIAL NO:
XXYMDVLXXX

MODEL NO:
5EK00A

Regulatory Model: BCLAA-1915
規定型号: BCLAA-1915

제조사 : 콘텍스 A/S
A/S번호 : 1558-3003
제조년월일 : 별도표기

非维修人员请勿打开机盖。
需要维修时请找专业人员服务。
No operator serviceable parts inside.
Refer servicing to qualified service personnel.
No hay piezas reparables el usuario en el interior.
Reparaciones: contactar con personal de servicio autorizado.
لا المشغل أجزاء للخدمة داخل
إحالة الخدمة إلى موظفي الخدمة المؤهلين

设备必须连接到接地的电源插座
Equipment must be connected to an earthed mains outlet only.
Équipement à raccorder à la prise de terre uniquement.
Conectar el product a red de alimentación con toma de tierra.
Laitte on liitettävä suojakoskettimällä varustettuun pistorasiaan.
Apparateri må tilkoples jordat stikkontakt.
Apparaten skall anslutas till jordat uttag.
Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.
المعدات يجب أن تكون متصلا إلى مخرج تيار كهربائي فقط

POWER140 W

FREQUENCY / FREKUENSI50 - 60 Hz频率

AC VOLTAGE / TEGANGAN~100 - 240 V交流电压

CURRENT MAX2 A最大电流



型号 RC67R

中国制造 Made in China
DIBUAT DI CHINA M2
Global Scanning Denmark A/S

Enclosures

Marking Plate ID 13-02

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A conforme à la norme NMB-003 du Canada.		SERIAL NO:  67GBYMnnnROC	
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.		  	
この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A Laite on liitävä suojaadoituskosettimilla varustettuun pistorasiaan. Apparatet må tilkoples jordet stikkontakt. Apparaten skall anslutas till jordat uttag.			
FREQUENCY RANGE	50 - 60 Hz	频率范围	
AC VOLTAGE	100 - 240 V~	交流电压	
CURRENT MAX	2 A	最大电流	
CONSUMO DE ENERGIA POR UNIDAD DE TIEMPO EN OPERACIÓN DEL EQUIPO: 140Wh CONSUMO DE ENERGIA EN ESPERA POR UNIDAD DE TIEMPO DEL EQUIPO: 2Wh			
		MODEL NO: RB67G 型号 contex Global Scanning Denmark A/S Svanewang 2, DK-3450, Allerød, Denmark Designed in Denmark Assembled in China 中国制造 M2	