

Test Report issued under the responsibility of:

NCB TÜV SÜD PSB Pte Ltd. 15 International Business Park, TÜV SÜD@IBP Singapore 609937 Singapore



TEST REPORT IEC 62368-1

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

Report Number.....: 083-2500438-000

Date of issue.....: 2025-01-17

Total number of pages..... 54

Name of Testing Laboratory

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai

preparing the Report: Branch

Applicant's name Hangzhou Hikvision Digital Technology Co., Ltd.

Zhejiang, PEOPLE'S REPUBLIC OF CHINA

Test specification:

Standard: IEC 62368-1:2014

Test procedure.....: CB Scheme

Non-standard test method.....: N/A

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

Test Report Form No.....: IEC62368_1D

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

Master TRF: Dated 2022-04-14

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

General disclaimer:

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

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Page 2 of 54 Report No.: 083-2500438-000

Test I	tem description:	Ethernet Switch		
Trade	Mark(s):	HIKVISION		
Manu	facturer:	Hangzhou Hikvision Digital Technology Co., Ltd.		
		No.555 Qianmo Road, Bi Hangzhou, Zhejiang, PEC CHINA		
Mode	/Type reference:	DS-3E0318P-E/M(C),		
		DS-3E0318P-EUHK/M(C	**	
		DS-3E0318P-ECKV/M(C	, .	
		DS-3E0318P-EUVS/M(C	•	
		DS-3E0318P-EKVO/M(C	**	
D (:		DS-3E0318P-EHUN/M(C	<u>'</u>	
Rating	gs:	100-240V~, 50/60Hz, 2.5	A Max.	
Resp	onsible Testing Laboratory (as applicable), t	esting procedure and te	esting location(s):	
	CB Testing Laboratory:		and Testing (China) Co., Ltd.	
			ad 200070, Shanghai P.R.	
Testi	ng location/ address:	No. 1999, Duhui Road, China	Shanghai, 201108, P. R.	
Teste	d by (name, function, signature):	Wang Lichen	SESTING ICHINATES	
		Project Handler		
Appr	oved by (name, function, signature):	Jiang Dajun Designated Reviewer	SUP THE SUPERIOR OF THE SUPERI	
		I		
Ш	Testing procedure: CTF Stage 1:			
Testi	ng location/ address::			
Teste	d by (name, function, signature):			
Appr	oved by (name, function, signature):			
	Tasting procedure, CTF Stage 2:	1		
	Testing procedure: CTF Stage 2:			
	ng location/ address			
	d by (name, function, signature)			
	essed by (name, function, signature):			
Appr	oved by (name, function, signature):			
	Testing procedure: CTF Stage 3 :			
	Testing procedure: CTF Stage 3:			
Tooti				
	ng location/ address			
	d by (name, function, signature)			
	essed by (name, function, signature):			
Appr	oved by (name, function, signature):	Ī		

Page 3 of 54 Report No.: 083-2500438-000

Supervised by (name, function, signature):	

Page 4 of 54 Report No.: 083-2500438-000

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

Attachment No. 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (9 pages);

Attachment No. 2: National and Group Differences for IEC 62368-1b CB Bulletin; (82 pages);

Attachment No. 3: Photo documentation (10 pages).

Summary of testing:

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

Tests performed (name of test and test clause):

Complete tests performed on model DS-3E0318P-E/M(C).

The test results comply with the requirements.

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 (List of countries addressed):

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES.

National differences of AR, CA, DK, FI, SE, US, AU, NZ, JP, IT, AT, BY, BE, CH, CN, DE, FR, GB, HU, IL, KR, MY, NO, NL, SG, SI, UA.

Explanation of used codes: AR=Argentina, CA=Canada, DK=Denmark, Fl=Finland, SE=Sweden, US=United States of America, AU=Australia, NZ=New Zealand, JP=Japan, IT=Italy, AT=Austria, BY=Belarus, BE=Belgium, CH=Switzerland, CN=China, DE=Germany, FR=France, GB=United Kingdom, HU=Hungary, IL=Israel, KR=Korea, MY=Malaysia, NO=Norway, NL=Netherlands, SG=Singapore, SI=Slovenia, UA=Ukraine.

☐ The product fulfils the requirements of IEC 62368-1:2014(Second Edition), EN 62368-1:2014, EN 62368-1:2014+A11:2017

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

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

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

Information on uncertainty of measurement:

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

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

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

Page 5 of 54 Report No.: 083-2500438-000

Copy of marking plate:

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



Remark:

The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.

TEST ITEM PARTICULARS:			
Classification of use by:	☑ Ordinary person		
	☐ Instructed person		
	Skilled person		
	☐ Children likely to be present		
Supply Connection:	☐ AC Mains ☐ DC Mains		
	External Circuit - not Mains connected		
	- 🗆 ES1 🗌 ES2 🔲 ES3		
Supply % Tolerance:			
	+20%/-15%		
	☐ +%/% ☐ None: not directly connected to the mains		
Comple Compaction Toma			
Supply Connection – Type:			
	☐ non-detachable supply cord ☐ appliance coupler		
	☐ direct plug-in		
	mating connector		
	☐ pluggable equipment type B -		
	non-detachable supply cord		
	appliance coupler		
	permanent connection		
	mating connector other: not directly connected to the mains		
Considered current rating of protective device as	16A		
part of building or equipment installation:	Installation location: building; equipment		
Equipment mobility:	☐ movable ☐ hand-held ☐ transportable		
	stationary for building-in direct plug-in		
	☐ rack-mounting ☐ wall-mounted		
Over voltage category (OVC):			
	OVC IV other		
Class of equipment:	☐ Class II ☐ Class III		
	Class II with functional earthing		
	☐ Not classifed		
Access location:	restricted access area N/A		
Pollution degree (PD):	☐ PD 1		
Manufacturer's specified maxium operating ambient:	45°C		
IP protection class:			
Power Systems:	☐ TN ☐ TT ☐ IT V _{L-L;} ☐ dc mains		
	□ N/A		
Altitude during operation (m):			
Altitude of test laboratory (m):	⊠ 2000 m or less □ m		
Mass of equipment (kg):	g): 🖂 1.81kg		
	<u> </u>		

Page 7 of 54 Report No.: 083-2500438-000

Possible test case verdicts:			
- test case does not apply to the test object:	N/A		
- test object does meet the requirement:			
- test object does not meet the requirement:	, ,		
Testing:	. (. a)		
Date of receipt of test item:			
Date (s) of performance of tests:	2025-01-13 to 2025-01-17		
General remarks:			
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the			
Throughout this report a \square comma / \boxtimes point is us	sed as the decimal separator.		
Manufacturer's Declaration per sub-clause 4.2.5 of l	ECEE 02:		
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	Yes☐ Not applicable		
When differences exist; they shall be identified in the	ne General product information section.		
Name and address of factory (ies):	Hangzhou Hikvision Electronics Co., Ltd.		
, (3),	No. 299, Qiushi Road, Tonglu Economic Development Zone, 311500 Tonglu County, Hangzhou, PEOPLE'S REPUBLIC OF CHINA		
	2. Hangzhou Hikvision Technology Co., Ltd.		
	No.700 Dongliu Road, Binjiang District, 310052 Hangzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA		
	3. Chongqing Hikvision Technology CO., Ltd.		
	No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, 401325 Chongqing,		
	PEOPLE'S REPUBLIC OF CHINA		
	4. Wuhan Haorong Technology Co., Ltd		
	No.1 Qinglong Road (Extension Line), Zhifang Street		
	Jiangxia, 430200 Wuhan PEOPLE'S REPUBLIC OF CHINA		
	PEOPLE'S REPUBLIC OF CHINA		
General product information and other remarks:			
Product Description – The appliance is Ethernet Switch, with switching mode power supply and function board, housed by metal			
enclosure. The product supplied by approved built-in supply unit, which has been certified separately.			
The appliance used indoor for general purpose under dry condition.			
Maximum ambient temperature (Tma) permitted by the manufacturer's specification is 45°C.			
Model Differences –			
All models are identical except the model name.			
Additional application considerations – (Considerations used to test a component or sub-assembly) –			
N/A			

Page 8 of 54 Report No.: 083-2500438-000

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)
All internal circuits before built-in power supply board output terminal	ES3
All internal circuits after built-in power supply board output terminal	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 internal circuits	PS3	
Other output ports	PS1	

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)	
Mass of the EUT	MS1	
Sharp edges and corners	MS1	

Thermal burn injury (Clause 9)

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

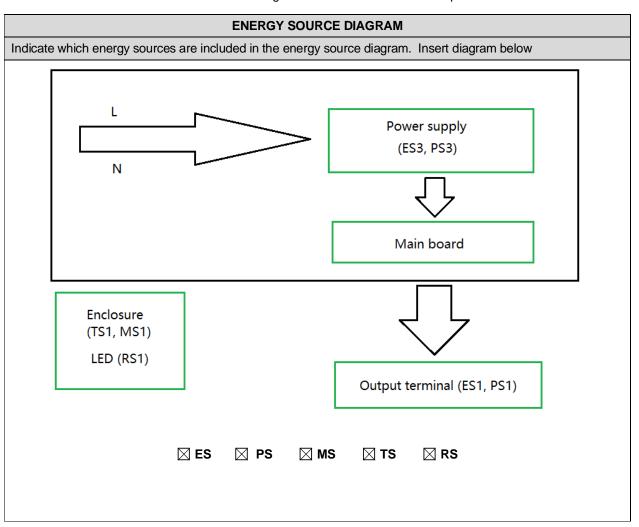
Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1

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)
Indicator LED	RS1



Report No.: 083-2500438-000

OVERVIEW OF EMPLOYED SAFE	GUARDS				
Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person Children likely to be present	ES3: All internal circuits before built-in power supply board output terminal	N/A	N/A	Enclosure Built-in Power supply has been approved	
	ES1: All internal circuits after built-in power supply board output terminal	N/A	N/A	N/A	
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Ordinary person Children likely to be present	PS1: Other output ports	1. No ignition occurred. 2. No parts exceeding 90% of its spontaneo us ignition temperatu re.	1. PCB is complied with V-1 material. 2. All other components: at least V-2 except for mounted on Min. V-1 material or small parts of combustible material. 3. Metal enclosure provided.	N/A	
	PS1: Other output ports	N/A	N/A	N/A	
7.1	Injury caused by hazardous				
Body Part (e.g., skilled)	Energy Source (hazardous material)	.	Safeguards	5.4	
	· ·	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)	Basic	Safeguards Supplementary	Reinforced (Enclosure)	
Ordinary person	MS1: Mass of EUT	N/A	N/A	N/A	
Children likely to be present	MS1: Sharp edges and corners	N/A	N/A	N/A	

Page 11 of 54 Report No.: 083-2500438-000

9.1	Thermal Burn	Thermal Burn				
	Energy Source		Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced		
Ordinary person Children likely to be present	TS1: Accessible parts	N/A	N/A	N/A		
10.1	Radiation					
Body Part	Energy Source	Safeguards				
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced		
Ordinary person	RS1: Indicator light	N/A	N/A	N/A		
Children likely to be present						
Supplementary Information:	Supplementary Information:					
(1) See attached energy source diagr	am for additional details.					

^{(2) &}quot;N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault

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

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	Р
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness		Р
4.4.4.2	Steady force tests	(See Annex T.2, T.5)	Р
4.4.4.3	Drop tests:		N/A
4.4.4.4	Impact tests:	(See Annex T.6)	Р
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:		N/A
4.4.4.6	Glass Impact tests	No such glass is used.	N/A
4.4.4.7	Thermoplastic material tests:		N/A
4.4.4.8	Air comprising a safeguard:		N/A
4.4.4.9	Accessibility and safeguard effectiveness		Р
4.5	Explosion		Р
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:	Components	Р
4.7	Equipment for direct insertion into mains socket - outlets	Not direct plug-in equipment.	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		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:		3/4
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:	Considered.	Р

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES3	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р

IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.2.2.3	Capacitance limits:	Building-in power supply unit has been certified separately.	Р	
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		Р	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		Р	
5.3.2.1	Accessibility to electrical energy sources and safeguards		Р	
5.3.2.2	Contact requirements		Р	
	a) Test with test probe from Annex V:	ES3 voltage less than 420V peak.	Р	
	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		Р	
5.4.1.2	Properties of insulating material		Р	
5.4.1.3	Humidity conditioning:	No hygroscopic materal	Р	
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 4.1.2)	Р	
5.4.1.5	Pollution degree:	PD2	3/4	
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	
5.4.1.7	Insulation in circuits generating starting pulses		N/A	
5.4.1.8	Determination of working voltage	Building-in power supply unit has been certified separately.	Р	
5.4.1.9	Insulating surfaces		Р	
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		Р	
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	Р	
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	Р	
	a) a.c. mains transient voltage:	2500Vpeak	3/4	

	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	b) d.c. mains transient voltage:		3/4		
	c) external circuit transient voltage:		3/4		
	d) transient voltage determined by measurement :		3/4		
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 5.4.2.3) Building-in power supply unit has been certified separately.	Р		
5.4.3.1	General		Р		
5.4.3.3	Material Group:	Material group IIIb is used	3/4		
5.4.4	Solid insulation		Р		
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.2.2) Building-in power supply unit has been certified separately.	Р		
5.4.4.3	Insulation compound forming solid insulation	Building-in power supply unit has been certified separately.	Р		
5.4.4.4	Solid insulation in semiconductor devices	Building-in power supply unit has been certified separately.	Р		
5.4.4.5	Cemented joints		N/A		
5.4.4.6	Thin sheet material	Building-in power supply unit has been certified separately.	Р		
5.4.4.6.1	General requirements	Building-in power supply unit has been certified separately.	Р		
5.4.4.6.2	Separable thin sheet material	Building-in power supply unit has been certified separately.	Р		
	Number of layers (pcs):	Building-in power supply unit has been certified separately.	Р		
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		
5.4.4.6.5	Mandrel test		N/A		
5.4.4.7	Solid insulation in wound components	Building-in power supply unit has been certified separately.	Р		
5.4.4.9	Solid insulation at frequencies >30 kHz:	Building-in power supply unit has been certified separately.	Р		
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 (MW):		3/4		

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.6	Insulation of internal wire as part of supplementary safeguard:	No such parts.	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		Р
	Relative humidity (%):	95	3/4
	Temperature (°C):	40	3/4
	Duration (h):	120	3/4
5.4.9	Electric strength test:	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for a solid insulation type test		N/A
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):		3/4
	Nominal voltage U _{peak} (V):		3/4
	Max increase due to variation U _{sp} :		3/4
	Max increase due to ageing DUsa:		3/4
	U _{op} = U _{peak} + DU _{sp} + DU _{sa} :		3/4
5.5	Components as safeguards	,	Р
5.5.1	General		Р
5.5.2	Capacitors and RC units	Building-in power supply unit has been certified separately.	Р
5.5.2.1	General requirement		Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	Р
5.5.3	Transformers	Building-in power supply unit has been certified separately.	Р
5.5.4	Optocouplers	Building-in power supply unit has been certified separately.	Р
5.5.5	Relays		N/A

IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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		Р	
5.6.2	Requirement for protective conductors		Р	
5.6.2.1	General requirements		Р	
5.6.2.2	Colour of insulation	Green and yellow	Р	
5.6.3	Requirement for protective earthing conductors		N/A	
	Protective earthing conductor size (mm²):	The power supply cord was nit provided for testing with equipment together.	3/4	
5.6.4	Requirement for protective bonding conductors		Р	
5.6.4.1	Protective bonding conductors		Р	
	Protective bonding conductor size (mm²):	Refer to 5.6.6.2	3/4	
	Protective current rating (A):	16A (for EU) and 20A (for US and CA)	3/4	
5.6.4.3	Current limiting and overcurrent protective devices		N/A	
5.6.5	Terminals for protective conductors		Р	
5.6.5.1	Requirement		Р	
	Conductor size (mm²), nominal thread diameter (mm):		Р	
5.6.5.2	Corrosion		Р	
5.6.6	Resistance of the protective system		Р	
5.6.6.1	Requirements		Р	
5.6.6.2	Test Method Resistance (W)	(See appended table 5.6.6.2)	Р	
5.6.7	Reliable earthing		N/A	
5.7	Prospective touch voltage, touch current and prote	ective conductor current	Р	
5.7.2	Measuring devices and networks		Р	
5.7.2.1	Measurement of touch current	(See appended table 5.7.2)	Р	
5.7.2.2	Measurement of prospective touch voltage		Р	
5.7.3	Equipment set-up, supply connections and earth connections		Р	
	System of interconnected equipment (separate connections/single connection):	Single equipment	3/4	
	ı	ı		

	Page 17 of 54	Report No.: 083-2500)438-000			
	IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
	Multiple connections to mains (one connection at a time/simultaneous connections)	Single equipment	3/4			
5.7.4	Earthed conductive accessible parts	(See appended table 6.2.2)	Р			
5.7.5	Protective conductor current		Р			
	Supply Voltage (V):	264V	3/4			

	a time/simultaneous connections)	Single equipment	3/4
5.7.4	Earthed conductive accessible parts	(See appended table 6.2.2)	Р
5.7.5	Protective conductor current		Р
	Supply Voltage (V)	264V	3/4
	Measured current (mA)	(See appended table 5.7.5)	3/4
	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		Р
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:		N/A
6.2.2.6	PS3:		Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:		Р
6.2.3.2	Resistive PIS:		N/A
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions	; }	Р
6.4.1	Safeguard Method	Method fire spread.	Р

Report No.: 083-2500438-000

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		Р
6.4.3.1	General		Р
6.4.3.2	Supplementary Safeguards	 PCB is complied with V-1 material. All other components: at least V-2 except for mounted on Min.V-1 material or small parts of combustible material. Metal enclosure provided. 	Р
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions:	(See appended table 6.4.3)	Р
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards:	PCB is complied with V-1 material. All other components: at least V-2 except for mounted on Min.V-1 material or small parts of combustible material. Metal anglesure provided.	Р
6.4.6	Control of fire spread in PS3 circuit	 Metal enclosure provided. PCB is complied with V-1 material. All other components: at least V-2 except for mounted on Min.V-1 material or small parts of combustible material. Metal enclosure provided. 	Р
6.4.7	Separation of combustible materials from a PIS		Р
6.4.7.1	General ::::::::::::::::::::::::::::::::::::	(See table 6.2.3.1 and 6.2.3.2)	Р
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	Metal enclosure	Р
6.4.8.1	Fire enclosure and fire barrier material properties		Р
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure		Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		Р
6.4.8.3.1	Fire enclosure and fire barrier openings		Р

	Page 19 of 54	Report No.: 083-2500	438-000		
	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
6.4.8.3.2	Fire barrier dimensions		Р		
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	Top: No openings Front: No openings Side: The width is 1mm, the length is unlimited	Р		
	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	Р		
	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	Р		
6.5	Internal and external wiring		Р		
6.5.1	Requirements		Р		
6.5.2	Cross-sectional area (mm²)	(See appended table 4.1.2)	3/4		
6.5.3	Requirements for interconnection to building wiring:		N/A		
6.6	Safeguards against fire due to connection to additional equipment		Р		
	External port limited to PS2 or complies with Clause Q.1		Р		
	•				

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
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:	3/4
7.5	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010):	3/4
7.6	Batteries:	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	MS1: Mass of the EUT; MS1: Sharp edges and corners	Р
8.3	Safeguards against mechanical energy sources	Refer to user manual.	Р
8.4	Safeguards against parts with sharp edges and corners		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts		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:		3/4
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		3/4
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	No such parts.	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		N/A
8.6.1	Product classification		N/A
	Instructional Safeguard		3/4
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
	Applied Force		3/4
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		3/4
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		N/A
	Position of feet or movable parts		3/4
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	No handles	N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A

	Page 21 of 54	Report No.: 083-2500)438-000
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.9	Wheels or casters attachment requirements	No such wheels or casters within the equipment.	N/A
8.9.1	Classification		N/A
8.9.2	Applied force		3/4
8.10	Carts, stands and similar carriers	No such parts.	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
	Instructional Safeguard		3/4
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force		3/4
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		3/4
8.10.6	Thermoplastic temperature stability (°C)		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A

9	THERMAL BURN INJURY	
9.2	Thermal energy source classifications TS1	Р
9.3	Safeguard against thermal energy sources	Р
9.4	Requirements for safeguards	
9.4.1	Equipment safeguard	Р
9.4.2	Instructional safeguard:	N/A

N/A

N/A

N/A

3/4

Mechanical strength test, variable *N*

Mechanical strength test 250N, including end stops

Telescoping or rod antennas

Button/Ball diameter (mm).....

10	RADIATION		Р
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification		N/A
10.3	Protection against laser radiation		N/A
	Laser radiation that exists in the equipment:		3/4
	Normal, abnormal, single-fault		N/A
	Instructional safeguard		3/4
	Tool		3/4

8.11.3

8.11.4

8.12

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
10.4	Protection against visible, infrared, and UV radiation	Indicator light used.	Р
10.4.1	General		Р
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:		3/4
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1		N/A
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:		3/4
	Abnormal and single-fault condition:		N/A
	Maximum radiation (pA/kg):		N/A
10.6	Protection against acoustic energy sources	No such acoustic energy sources.	N/A
10.6.1	General		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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:		3/4
	Means to actively inform user of increase sound pressure		3/4
	Equipment safeguard prevent ordinary person to RS2:		3/4
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:		3/4
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A):		3/4
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A):		3/4
В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING OITION TESTS	Р
B.2	Normal Operating Conditions		Р
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers		N/A
B.2.3	Supply voltage and tolerances		Р
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements		Р
B.3.2	Covering of ventilation openings	(See appended table B.3)	Р
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector	No such components.	N/A
B.3.5	Maximum load at output terminals	Considered.	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Not audio amplifier.	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions		Р

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.4	Simulated single fault conditions		Р
B.4.2	Temperature controlling device open or short-circuited	Building-in power supply unit has been certified separately.	Р
B.4.3	Motor tests		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature		N/A
B.4.4	Short circuit of functional insulation	Building-in power supply unit has been certified separately.	Р
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation		Р
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	Building-in power supply unit has been certified separately.	Р
B.4.6	Short circuit or disconnect of passive components	Building-in power supply unit has been certified separately.	Р
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		N/A
B.4.9	Battery charging under single fault conditions:	(See Annex M)	N/A
С	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 CONTAIN	ING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V):		3/4
	Rated load impedance (Ω):		3/4
E.2	Audio amplifier abnormal operating conditions		N/A

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

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
	Instructions – Language:	English	3/4
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification	See copy of marking plate	3/4
F.3.2.2	Model identification:	See copy of marking plate	3/4
F.3.3	Equipment rating markings	See copy of marking plate	Р
F.3.3.1	Equipment with direct connection to mains		Р
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of supply voltage:	AC	3/4
F.3.3.4	Rated voltage:	See copy of marking plate.	3/4
F.3.3.5	Rated frequency:	See copy of marking plate.	3/4
F.3.3.6	Rated current or rated power:	See copy of marking plate.	3/4
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		Р
F.3.5.1	Mains appliance outlet and socket-outlet markings:		N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings	Building-in power supply unit has been certified separately.	Р
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Terminal marking location		Р
F.3.6	Equipment markings related to equipment classification		Р
F.3.6.1	Class I Equipment		Р
F.3.6.1.1	Protective earthing conductor terminal		Р
F.3.6.1.2	Neutral conductor terminal		Р
F.3.6.1.3	Protective bonding conductor terminals		Р
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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking:	IPX0	3/4
F.3.8	External power supply output marking		Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test, 15 sec. for water and 15 sec. for petroleum spirit. After each test, the marking remained legible.	Р
F.4	Instructions		Р
	a) Equipment for use in locations where children not likely to be present - marking		N/A
	b) Instructions given for installation or initial use		Р
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area		Р
	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		Р
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment		Р
	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		Р
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		Р
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General requirements		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays		N/A
G.2.1	General requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.3	Protection Devices		Р
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)		3/4
_	Single Fault Condition:		3/4
	Test Voltage (V) and Insulation Resistance (W):		3/4
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices		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		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components		Р
G.5.1	Wire insulation in wound components	Building-in power supply unit has been certified separately.	Р
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):		3/4
	Temperature (°C):		3/4
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		Р

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	Building-in power supply unit has been certified separately.	Р
	Position:		3/4
	Method of protection:		3/4
G.5.3.2	Insulation	Building-in power supply unit has been certified separately.	Р
	Protection from displacement of windings:		3/4
G.5.3.3	Overload test	Building-in power supply unit has been certified separately.	Р
G.5.3.3.1	Test conditions		Р
G.5.3.3.2	Winding Temperatures testing in the unit		Р
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
	Position:		3/4
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days):		3/4
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V)		3/4
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):		N/A
	Electric strength test (V):		3/4
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature		N/A
	Electric strength test (V):		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):		N/A
	Electric strength test (V)		N/A
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		3/4
G.6	Wire Insulation		Р

		<u> </u>	
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.6.1	General	Building-in power supply unit has been certified separately.	Р
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре:		3/4
	Rated current (A)		3/4
	Cross-sectional area (mm²), (AWG)		3/4
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)		3/4
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		3/4
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)		3/4
	Diameter (m)		3/4
	Temperature (°C)		3/4
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		Р
G.8.1	General requirements	Building-in power supply unit has been certified separately.	Р
G.8.2	Safeguard against shock	Building-in power supply unit has been certified separately.	Р
G.8.3	Safeguard against fire		Р
G.8.3.2	Varistor overload test	Building-in power supply unit has been certified separately.	Р
G.8.3.3	Temporary overvoltage:	Building-in power supply unit has been certified separately.	Р
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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 c)	Supply source does not exceed 250 VA:		3/4
G.9.1 d)	IC limiter output current (max. 5A):		3/4
G.9.1 e)	Manufacturers' defined drift:		3/4
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		Р
G.11.1	General requirements	Building-in power supply unit has been certified separately.	Р
G.11.2	Conditioning of capacitors and RC units	Building-in power supply unit has been certified separately.	Р
G.11.3	Rules for selecting capacitors	Building-in power supply unit has been certified separately.	Р
G.12	Optocouplers		Р
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):	Building-in power supply unit has been certified separately.	Р
	Type test voltage Vini:		3/4
	Routine test voltage, Vini,b:		3/4
G.13	Printed boards		Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction):		3/4
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		3/4

IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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	
a)	Humidity treatment in accordance with sc 5.4.8 – 120 hours		N/A	
b)	Impulse test using circuit 2 with Uc = to transient voltage:		N/A	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A	
C2)	Test voltage:		3/4	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A	
D2)	Capacitance:		3/4	
D3)	Resistance:		3/4	
Н	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):		3/4	
H.3.1.2	Voltage (V):		3/4	

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1.3	Cadence; time (s) and voltage (V):		3/4
H.3.1.4	Single fault current (mA)::		3/4
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)		3/4
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
	General requirements		N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No such parts.	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		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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:		3/4
M.4.2.2 b)	Single faults in charging circuitry:		3/4
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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 Vz (m³/s):		3/4
M.8.2.3	Correction factors:		3/4
M.8.2.4	Calculation of distance d (mm):		3/4
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		N/A
	Metal(s) used:		3/4
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	Р
	Figures O.1 to O.20 of this Annex applied:	Considered.	3/4
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements		Р
P.2.2	Safeguards against entry of foreign object		Р
	Location and Dimensions (mm):	Top: No openings Front: No openings Side: The width is 1mm, the length is unlimited	3/4
P.2.3	Safeguard against the consequences of entry of foreign object		Р
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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
P.3	Safeguards against spillage of internal liquids	No 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):		3/4
	Tr (°C):		3/4
	Ta (°C)		3/4
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	Р
Q.1	Limited power sources		Р
Q.1.1 a)	Inherently limited output		Р
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition		N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		Р
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		3/4
	Current limiting method:		3/4
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements	No such consideration.	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:		3/4
	Wall thickness (mm)		3/4
	Conditioning (°C):		3/4
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- 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		3/4
	Wall thickness (mm)		3/4
	Conditioning (°C):		3/4
	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		3/4
	Wall thickness (mm)		3/4
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady-state power exceeding 4000 W		N/A
	Samples, material:		3/4
	Wall thickness (mm):		3/4
	Conditioning (test condition), (°C)		3/4
	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
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test		Р
	Swing test		Р
T.7	Drop test		N/A

	rago or or or	110port 110 000 2001	3 100 000
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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)		3/4
	Height (m)		3/4
T.10	Glass fragmentation test		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		3/4
U	MECHANICAL STRENGTH OF CATHODE RAY TO AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	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 (FINA	GERS, PROBES AND WEDGES)	Р
V.1	Accessible parts of equipment		Р
V.2	Accessible part criterion		Р

Page 38 of 54 Report No.: 083-2500438-000

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

4.1.2	TABLE	ABLE: List of critical components							
Object / par	t No.	Manufacturer/ trademark	Type / model	Type / model Technical data		Mark(s) of conformity ¹			
Metal enclos	sure	Interchangeable	Interchangeable	Min. thickness 1.0mm	IEC 62368- 1:2014 EN 62368- 1:2014+A11:201	Test with appliance			
Varistor		BestBright Electronics Co. Ltd	6KA82V	AC 2500V 40/85/56 IEC 6105 ² 2:1991/AN 09 IEC 6105 ² 2:1991 IEC 6105 ² 1:2007		VDE 40027827			
РСВ		WENZHOU OULONG ELECTRIC CO LTD	OL-D	V-0, 130℃ UL 94 UL 796		UL E231017			
-Alt.		SHENZHEN KINWONG ELECTRONIC CO LTD	8B	V-0,130℃ UL 94 UL 796		UL E243951			
-Alt.		HUIZHOU CHINA EAGLE ELECTRONIC TECHNOLOGY CO LTD	CA-F121	V-0,130℃	UL 94 UL 796	UL E198681			
-Alt.		Interchangeable	Interchangeable	V-0,130°C	UL 94 UL796	UL			
Plug		Phino Electric Co., Ltd	PHS-301	250V 10A	IEC 60320- 1:2021 EN IEC 60320- 1:2021	VDE 40038017			
Wire		Hangzhou Hongshi Electrical Ltd.	H05VV-F	3*0.75 mm2	DIN EN 50525-2- 11	VDE 40010839			
Plug		Phino Electric Co.,Ltd.	PHP-206	250V 16A	DIN VDE 0620-2- 1/A1 DIN VDE 0620-2- 1	VDE 40013375			
Wire		Phino Electric Co., Ltd.	H05VV-F	3*0.75 mm2	DIN EN 50525-2- 11	VDE 113841			

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

Plug	Hangzhou Hongshi Electrical Ltd.	Hongshi SW102		DIN VDE 0620-2- 1/A1 DIN VDE 0620-2- 1	VDE 40004330
Appliance couplers	Scolmore International Ltd.	SW903	250V 10A	EN 60320- 1:2001/A1	ENEC NO3683
Appliance inlet	ZHe Jiang BEI Er Jia Electronic Co Ltd	ST-A01-003K	220V 10A	EN 60320- 1:2001/A1	5000376- 1550-0002
Plug with earthing contact	LINOYA ELECTRONIC TECHNOLOGY CO LTD	XYP-02L	250V 16A	DIN VDE 0620-2- 1/A1 DIN VDE 0620-2- 1	VDE 40015292
Connector	LINOYA ELECTRONIC TECHNOLOGY CO LTD	XYC-03	250V 10A	IEC 60320- 1:2015	VDE 40016051
Wire	LINOYA ELECTRONIC TECHNOLOGY CO LTD	H05VV-F	25*0.752.5 mm2	DIN EN 50525-2- 11	VDE 40035072
Switching Power Supply	Guangzhou Shikun Electronics Co., Ltd.	PoE-150W53- NP1	Input: 100-240 V, 50-60 Hz, 3A Max. Output: 53.5VDC, 2.8A Max.	IEC 62368-1: 2018	DK-143818- A1-UL
-Alt.	DONGGUAN AOYUAN ELECTRONICS TECHNOLOGY CO., LTD.	AY-G150-53	Input: 100-240 V, 50/60 Hz, 2.5A Max. Output: 53.5VDC, 2.8A Max.	IEC 62368-1: 2018	JPTUV- 146157
-Alt.	Shenzhen Honor Electronic Co.,Ltd	ADO-150W1-A 53	Input: 100-240 V, 50/60 Hz, 2.5A Max. Output: 53.5VDC, 2.8A Max.	IEC 62368-1: 2018	CN67174
Miniature Fuse-link	AEM Components (Suzhou) Co., Ltd.	F1206HlxVyTz	EN 60127-1 EN 60127-7		TUV R J 50462464 0001
Component fan	Asia Vital Components Co.,Ltd.	DS04020B12M	12VDC, 0.15A, 6.35CFM	EN 62368- 1:2014/A11:2017	TUV SUD B 025730 0886
DC Fan	Dongguan Protechnic Electric Co., Ltd.	MGA4012MB- O20	12VDC, 0.11A, 7.32CFM	EN 62368- 1:2014/A11:2017	TUV SUD B 047634 0002

Page 40 of 54 Report No.: 083-2500438-000

IEC 62368-1										
Clause	Requirement + Test				Re	Verdict				
-Alt.		Dongguan Protechnic Electric Co., Ltd.	MGA4012MS- 020	12VE 7.320	OC, 0.11A, CFM	EN 62368-1: 2014/A11:2017	TUV SUD B 047634 0002			
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.										

Page 41 of 54 Report No.: 083-2500438-000

IEC 62368-1												
Clause		Requirement + Test		Result - Remark		Verdict						
4.8.4, 4.8.5		N/A										
(The following	(The following mechanical tests are conducted in the sequence noted.)											
4.8.4.2	4.8.4.2 TABLE: Stress Relief test											
Pa	Co	omments										
4.8.4.3	TABLE: Bat	tery replacement test	ı			3/4						
Battery part	no	······································				_						
Battery Inst	allation/withdr	rawal	Batte	ry Installation/Removal Cycle	Co	omments						
				1								
				2								
				3								
				4								
				5								
				6								
				8								
				9								
				10								
4.8.4.4	TABLE: Dro	p test				3/4						
Impact Area	a	Drop Distance	Drop No.		Obse	rvations						
				1								
				2								
				3								
4.8.4.5	TABLE: Imp	act	•			3/4						
Impacts p	er surface	Surface tested		Impact energy (Nm)	Co	omments						
	1											
4.8.4.6	TABLE: Cru		,			3/4						
Test position Surface tested			Crushing Force (N)		ation force oplied (s)							
Supplement	ary information	n:										
	- Springers, memorial											

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

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

5.2	Table: C	Table: Classification of electrical energy sources							
5.2.2.2 – Steady State Voltage and Current conditions									
No. Supply Voltage	Commb	Location (e.g.		I	Parameters				
	circuit	Test conditions	U	I	Hz	ES Class			
	ŭ	designation)		(Vrms or Vpk)	(Apk or Arms)	ПZ			
		All internal circuits	Normal	264V~		60			
1	264V~		Abnormal				ES3 (Declarati		
			Single fault – SC/OC				on)		
5.2.2.3 -	5.2.2.3 - Capacitance Limits								
	_								

5.2.2.3	5.2.2.3 - Capacitance Limits										
	Supply	Location (e.g.	-	Para	meters	F0.01					
No. Voltage	circuit designation)	Test conditions	Capacitance, nF	Upk (V)	ES Class						
			Normal								
			Abnormal								
			Single fault – SC/OC								
5.2.2.4	5.2.2.4 - Single Pulses										
	Supply	Location (e.g.		Para	o						
No	1 1 - 7	circuit	Test conditions			FS Class					

	9								
No. Supply Voltage	Supply	Location (e.g.	Toot conditions			F0 01			
	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class			
			Normal						
			Abnormal						
			Single fault – SC/OC						
	5005 D. W. D.								

5 2 2 5 - Repetitive Pulses

5.2.2.0) - Repetitive i	uises					
	Supply	Location (e.g.	-		Parameters		E0 01
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
			Normal				
			Abnormal				

Page 43 of 54

Report No.: 083-2500438-000

	IEC 62368-1												
Claus	se	Requir	ement + Test			Result - Re	emark	Verdi	ct				
	,	i											
			Single fault – SC/OC										
Test Cor	nditions:												
	Nor	mal –											
	Abr	normal -											
Supplem	nentary infor	mation: SC=Sho	rt Circuit, OC=Sho	rt Circuit									

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurement	s				Р
	Supply voltage (V):	90VAC 60Hz	90VAC 60Hz	264VAC 50Hz	264VAC 50Hz	3/4
	Ambient T _{min} (°C):					3/4
	Ambient T _{max} (°C):	See below	See below	See below	See below	3/4
	Tma (°C):	24.5	45.0	24.0	45.0	3/4
Maximum n	neasured temperature T of part/at:		Т ((°C)		Allowed T _{max} (°C)
Power supp	ly ADO-150W1-A 53					
Input wire		45.3	65.8	36.2	57.2	80
MOV101		52.2	72.8	39.3	60.3	85
LF101 coil		63.3	83.8	42.9	64.0	110
CON101		45.5	66.0	35.6	56.6	110
CX101		66.5	87.0	44.6	65.6	110
LF201 coil		88.4	108.9	48.9	69.9	130
L101 coil		85.7	106.2	54.0	75.0	130
T102 coil		72.0	92.5	49.6	70.6	130
C101		69.1	89.6	54.4	75.4	105
T101 coil		73.3	93.8	65.2	86.2	110
T101 core		66.0	86.5	58.4	79.4	110
U103		64.3	84.8	54.3	75.3	110
CY101		61.6	82.1	51.7	72.7	125
Output wire		50.0	70.5	43.5	64.5	80
PCB near L	1(31055-ICT)	55.9	76.4	51.6	72.6	130
PCB near L	1101(DS-30432)	51.1	71.7	47.4	68.4	130
PCB near T101		69.2	89.8	60.0	81.0	130
Metal enclo	sure above 101	34.4	34.9 (Shift to 25.0)	30.6	31.6 (Shift to 25.0)	60

	Page 44 of 54							Repo	rt No	o.: 083-2500)438-000	
	IEC 62368-1											
Clause	Clause Requirement + Test Result - Remark Verdict								Verdict			
Ambient	Ambient 24.5 45.0 24.0 45.0											
Supplementa	ry information:								•			
Temperature	T of winding:		t ₁ (°C)	R ₁ (W)	t2 (°	°C)	R ₂ (V	V) T (°	C)	Allowed T _{max} (°C)	Insulation class	
Supplementa	Supplementary information:											

Supplementary information:

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

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements	5				Р
	Supply voltage (V):	90VAC	90VAC	264VAC	264VAC	3/4
		60Hz	60Hz	50Hz	50Hz	
	Ambient T _{min} (°C):					3/4
	Ambient T _{max} (°C):	See below	See below	See below	See below	3/4
	Tma (°C):	24.7	45.0	25.0	45.0	3/4
Maximum n	neasured temperature T of part/at:		Т (°C)		Allowed T _{max} (°C)
Power supp	ly AY-G150-53					
Input wire		53.1	73.4	44.8	64.8	80
CON1		54.2	74.5	44.9	64.9	125
MOV1		66.5	86.8	51.4	71.4	105
LF1 coil		68.4	88.8	52.3	72.3	130
CX1		67.5	87.8	51.8	71.8	110
LF2 coil		72.2	92.5	51.8	71.8	130
EC1		68.5	88.9	56.6	76.6	105
L2 coil		81.6	102.0	57.0	77.0	130
T1 coil		77.7	98.1	72.2	92.2	110
T1 core		75.2	95.5	70.0	90.0	110
CY4		65.0	85.4	60.5	80.5	125
Output wire		53.2	73.6	49.6	69.6	80
PCB near U	J1101(DS-30432)	47.7	68.0	47.7	67.7	130
PCB near L	J1(31055-ICT)	51.9	72.3	51.7	71.7	130
Metal enclo	sure above T1	38.6	38.9 (Shift to 25.0)	36.0	36.0 (Shift to 25.0)	60

			i ago io	0.0.		Ropolitie	0 000 2000	100 000		
			IEC 623	368-1						
Clause	Require	st		Res	ult - Rema	rk	Verdict			
PCB near BD	1		70.	7 9	91.0	54.7	74.7	130		
Ambient 24.7 45.0 25.0 45.0										
Supplementa	ry information:			<u>.</u>	·					
Temperature T of winding: $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										

Supplementary information:

Supplementary information:

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

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements	5				Р
	Supply voltage (V)	90VAC 60Hz	90VAC 60Hz	264VAC 50Hz	264VAC 50Hz	3/4
	Ambient T _{min} (°C):					3/4
	Ambient T _{max} (°C)	See below	See below	See below	See below	3/4
	Tma (°C):	24.5	45.0	24.5	45.0	3/4
Maximum n	neasured temperature T of part/at:		Т ((°C)		Allowed T _{max} (°C)
Power supp	ly PoE-150W53-NP1					
Input wire		50.8	71.4	39.4	59.9	80
CN1		65.4	85.9	47.2	67.7	110
MOV1		61.8	82.3	46.8	67.3	85
CX1		64.7	85.2	48.1	68.6	100
LC2 coil		82.6	103.1	53.3	73.8	130
E201		71.5	92.1	53.8	74.3	105
L201 coil		92.2	112.8	61.2	81.7	130
T301 coil		83.4	103.9	72.8	93.3	110
T301 core		81.9	102.5	69.6	90.1	110
PC501		72.9	93.4	62.8	83.3	100
CY101		63.9	84.4	53.4	73.9	125
PCB near T	301	81.5	102.0	61.6	82.1	130
PCB near U	1101(DS-30432)	51.6	72.1	47.5	68.0	130
PCB near L	11(31055-ICT)	55.8	76.3	52.2	72.7	130

Page 46 of 54 Report No.: 083-2500438-000

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			IEC 6	2368-1							
Clause	Clause Requirement + Test					F	Resi	ult - Rem	ark	Verdict	
Metal enclosure above T301 40.6 41.1 (Shift to 25.0) 35.1 (Shift to 25.0)										60	
Ambient			2	4.5	4	5.0		24.5	45.0		
Supplementa	ry information:										
Temperature	T of winding:	t ₁ (°C)	R ₁ (W)	t ₂ (°C)	R ₂ (V	V)	T (°C)	Allowed T _{max} (°C)	Insulation class	
					-						
Supplementary information:											
Supplementary information:											
Note 1: Tma should be considered as directed by appliable requirement Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)											

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics								
Penetration	(mm):			3/4					
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)						
Supplement	Supplementary information:								

5.4.1.10.3	TABLE: Ball pre	ABLE: Ball pressure test of thermoplastics								
Allowed imp	ression diameter	(mm):	£ 2 mm	3/4						
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	meter (mm)						
Supplementary information:										

5.4.2.2, 5.4.2.4 and 5.4.3	ABLE: Minimum Clearances/Creepage distance							
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
Power supply AY-G150-53								
Primary circuits to metal	420	250	<30kHz	1.5	6.8	2.5	>6.8	
Power supply ADO-150W1-A 5	3							
Primary circuits to metal	420	250	<30kHz	1.5	2.8	2.5	>2.8	
Power supply PoE-150W53-NF	P1							

Page 47 of 54

Report No.: 083-2500438-000

	IEC 62368-1											
Clause Requirement + Test Result - Remark						Verdict						
Primary circuits to metal 420 250 <30kHz 1.5 5.4 2.5 >5												
Supplement	ary information:											
Note 2: See	/ for frequency above 3 table 5.4.2.4 if this is vide Material Group		electric s	trength test								

5.4.2.3	TABLE: Minimum Cleara	ge	Р			
	Overvoltage Category (C	OV):			II	
	Pollution Degree:				2	
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mm)		
Power supp	oly AY-G150-53		<u>.</u>			
Primary circuits to metal		2500	1.5	6.8		
Power supp	oly ADO-150W1-A 53		<u>.</u>			
Primary circuits to metal		2500	1.5	2.8		
Power supp	Power supply PoE-150W53-NP1					
Primary circuits to metal		2500	1.5	5.4		
Supplementary information:						

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakd Yes /		
Supplementary information:						

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements							
Distance through insulation di at/of:		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)		
Supplementary information:								

Page 48 of 54 Report No.: 083-2500438-000

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

5.4.9	TABLE: Electric strength tests			Р
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:				
Basic/supp	lementary:			
L/N to earth	n (Power supply AY-G150-53)	DC	2500	No
L/N to earth	n (Power supply ADO-150W1-A 53)	DC	2500	No
L/N to earth (Power supply PoE-150W53-NP1)		DC	2500	No
Reinforced	:			
	ndary circuits oply AY-G150-53)	DC	4000	No
	ndary circuits oply ADO-150W1-A 53)	DC	4000	No
L/N – Secondary circuits (Power supply PoE-150W53-NP1)		DC	4000	No

5.5.2.2	TABLE: Stored discharge on capacitors N/A						N/A
Supply Voltage (V), Hz		Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification
Supplemen	tary informat	ion:					
X-capacitor	s installed fo	r testing are:					
[] bleedin	ng resistor ra	ting:					
[] ICX:							
Notes:							
A. Test Loc	ation:						
Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth							
B. Operation	ng condition	abbreviations:					
N – Norma	N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition						

5.6.6.2	TABLE: Resistance of protective conductors and terminations					
A	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
Earth to farthest metal		32	2	-	0.007	
Earth to farthest metal		40	2	-	0.008	
Supplementary information:						

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

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part		
Supply volt	age:	264V 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)
L/N to Meta	al enclosure (Power supply AY-G150-53)	1	0.513
L/N to Meta	al enclosure (Power supply ADO-150W1-A 53)	1	0.466
L/N to Meta	al enclosure (Power supply PoE-150W53-NP1)	1	0.272

Supplementary Information:

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2	2.2 Table: Electrical power sources (PS) measurements for classification						
Source		Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS C	assification
			Power (W) :				DOG
264V~	264V~	All internal circuits	V _A (V) :			(Declaration)	PS3
			I _A (A) :			(Deciaration)	
			Power (W) :	0			
264V~		LAN	V _A (V) :	0			PS1
			I _A (A) :	0			
Supplementary Information:							
(*) Measurement taken only when limits at 3 seconds exceed PS1 limits.							

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)					
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No	
	All circuit				Yes	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.

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

6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)								
Circuit Loc	cation (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, VA and ammeter IA may be used instead of a wattmeter.

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

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

8.5.5	TABLE: High Pressure Lamp			N/A
Description		Values	Energy Source C	lassification
Lamp type.	:		_	
Manufactur	er:		_	
Cat no	:		_	
Pressure (c	cold) (MPa)		MS_	
Pressure (c	perating) (Mpa):		MS_	
Operating t	ime (minutes):		_	
Explosion n	nethod:		_	
Max particle	e length escaping enclosure (mm).:		MS_	
Max particle	e length beyond 1 m (mm):		MS_	
Overall resi	ult:			
Supplemen	tary information:			
2 3 4 7 1 1 1 1				

B.2.5	TABLE	: Input tes	st						Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Cond	ition/status
Power supply	y AY-G′	150-53							
90	50	1.63		144.93				Max.n	ormal load
100	50	1.47	2.5	144.84				Max.n	ormal load
240	50	0.64	2.5	140.61				Max.n	ormal load
264	50	0.63		141.10				Max.n	ormal load
90	60	1.62		144.57				Max.n	ormal load

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

90	3.2.5	TABLE	: Input tes	st						Р
240 60 0.64 2.5 140.77 Max.normal lands and supply ADO-150W1-A 53 90 50 1.59 141.06 Max.normal lands and supply ADO-150W1-A 53 90 50 1.43 2.5 140.16 Max.normal lands and supply ADO-150W1-A 53 240 50 0.63 2.5 136.03 Max.normal lands and supply ADO-150W1-A 53 90 60 1.43 2.5 140.16 Max.normal lands and supply ADO-150W1-A 53 240 50 0.63 2.5 136.03 Max.normal lands and supply ADO-150W1-A 53 90 60 1.59 141.04 Max.normal lands and supply ADO-150W1-A 53 240 60 0.63 2.5 140.30 Max.normal lands and supply ADO-150W53-NP1 90 50 1.65 136.00 Max.normal lands and supply ADO-150W53-NP1 90 50 1.65 145.46 Max.normal lands and supply ADD-150W53-NP1 90 50 1.65 145.46 Max.normal lands and supply ADD-150W53-NP1 90 50 1.65 145.46 Max.normal lands and supply ADD-150W53-NP1 90 50 1.65 145.46 Max.normal lands and supply ADD-150W53-NP1 90 50 1.65 146.20 Max.normal lands and supply ADD-160 1.48 2.5 144.22 Max.normal lands and supply ADD-160 1.48 2.5 144.22 Max.normal lands and supply ADD-150W53-NP1 90 60 1.66 146.20 Max.normal lands and supply ADD-160 1.48 2.5 144.22	U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No		Cond	lition/status
264 60 0.63 141.42 Max.normal landscape supply ADO-150W1-A 53 90 50 1.59 141.06 Max.normal landscape supply ADO-150W1-A 53 90 50 1.43 2.5 140.16 Max.normal landscape supply ADO-150W1-A 53 240 50 0.63 2.5 136.03 Max.normal landscape supply ADO-150W1-A 53 264 50 0.58 136.01 Max.normal landscape supply ADO-150W1-A 53 264 50 0.58 141.04 Max.normal landscape supply ADO-150W53-NP1 240 60 0.63 2.5 136.15 Max.normal landscape supply ADO-150W53-NP1 90 50 1.65 145.46 Max.normal landscape supply ADO-150W53-NP1 90 50 1.65 145.46 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.57 Max.normal landscape supply ADO-150W53-NP1 240 50 0.62 2.5 139.60 Max.normal landscape supply ADD-150W53-NP1 240 60 1.66 146.20 Max.normal landscape supply ADD-150W53-NP1 240 60 0.63 2.5 139.60 Max.normal landscape supply ADD-150W53-NP1 240 60 0.63 2.5 139.60 Max.normal landscape supply ADD-150W53-NP1 240 60 0.63 2.5 139.60 Max.normal landscape supply ADD-150W53-NP1 240 60 0.63 2.5 139.60 Max.normal landscape supply ADD-150W53-NP1 240 60 0.63 2.5 139.60	100	60	1.46	2.5	144.28				Max.n	ormal load
Power supply ADO-150W1-A 53 90	240	60	0.64	2.5	140.77				Max.n	ormal load
90 50 1.59 141.06 Max.normal le 100 50 1.43 2.5 140.16 Max.normal le 240 50 0.63 2.5 136.03 Max.normal le 264 50 0.58 136.01 Max.normal le 90 60 1.59 141.04 Max.normal le 100 60 1.42 2.5 140.30 Max.normal le 240 60 0.63 2.5 136.15 Max.normal le 264 60 0.58 136.00 Max.normal le 264 60 0.58 136.00 Max.normal le 265 1.65 Max.normal le 100 50 1.47 2.5 144.10 Max.normal le 100 50 1.47 2.5 144.10 Max.normal le 264 50 0.57 139.80 Max.normal le 264 50 0.57 139.80 Max.normal le 264 50 0.57 139.80 Max.normal le 264 50 0.62 2.5 139.57 Max.normal le 264 50 0.63 2.5 146.20 Max.normal le 264 50 0.63 2.5 144.22 Max.normal le 264 60 0.63 2.5 139.60	264	60	0.63		141.42				Max.n	ormal load
100 50 1.43 2.5 140.16 Max.normal li 240 50 0.63 2.5 136.03 Max.normal li 264 50 0.58 136.01 Max.normal li 90 60 1.59 141.04 Max.normal li 100 60 1.42 2.5 140.30 Max.normal li 240 60 0.63 2.5 136.15 Max.normal li 264 60 0.58 136.00 Max.normal li 269 50 1.65 145.46 Max.normal li 240 50 0.62 2.5 139.57 Max.normal li 240 50 0.67 139.80 Max.normal li 264 50 0.57 139.80 Max.normal li 264 50 0.66 146.20 Max.normal li 260 60 1.48 2.5 144.22 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li	Power supp	ly ADO-	150W1-A 5	53						
240 50 0.63 2.5 136.03 Max.normal leader for some supply Pose. 264 50 0.58 136.01 Max.normal leader for some supply Pose. 90 60 1.59 141.04 Max.normal leader for some supply Pose. 240 60 0.63 2.5 136.15 Max.normal leader for some supply Pose. 264 60 0.58 136.00 Max.normal leader for some supply Pose. Power supply Pose. 1.65 145.46 Max.normal leader for some supply Pose. 100 50 1.47 2.5 144.10 Max.normal leader for some supply Pose. 240 50 0.62 2.5 139.57 Max.normal leader for some supply Pose. 264 50 0.57 139.80	90	50	1.59		141.06				Max.n	ormal load
264 50 0.58 136.01 Max.normal leading for the second for the seco	100	50	1.43	2.5	140.16				Max.n	ormal load
90 60 1.59 141.04 Max.normal li 100 60 1.42 2.5 140.30 Max.normal li 240 60 0.63 2.5 136.15 Max.normal li 264 60 0.58 136.00 Max.normal li Power supply PoE-150W53-NP1 90 50 1.65 145.46 Max.normal li 100 50 1.47 2.5 144.10 Max.normal li 240 50 0.62 2.5 139.57 Max.normal li 264 50 0.57 139.80 Max.normal li 90 60 1.66 146.20 Max.normal li 100 60 1.48 2.5 144.22 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li	240	50	0.63	2.5	136.03				Max.n	ormal load
100 60 1.42 2.5 140.30 Max.normal li 240 60 0.63 2.5 136.15 Max.normal li 264 60 0.58 136.00 Max.normal li Power supply PoE-150W53-NP1 90 50 1.65 145.46 Max.normal li 100 50 1.47 2.5 144.10 Max.normal li 240 50 0.62 2.5 139.57 Max.normal li 264 50 0.57 139.80 Max.normal li 90 60 1.66 146.20 Max.normal li 100 60 1.48 2.5 144.22 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li	264	50	0.58		136.01				Max.n	ormal load
240 60 0.63 2.5 136.15 Max.normal leads of the control o	90	60	1.59		141.04				Max.n	ormal load
264 60 0.58 136.00 Max.normal leads of the property of	100	60	1.42	2.5	140.30				Max.n	ormal load
Power supply PoE-150W53-NP1 90	240	60	0.63	2.5	136.15				Max.n	ormal load
90 50 1.65 145.46 Max.normal li 100 50 1.47 2.5 144.10 Max.normal li 240 50 0.62 2.5 139.57 Max.normal li 264 50 0.57 139.80 Max.normal li 90 60 1.66 146.20 Max.normal li 100 60 1.48 2.5 144.22 Max.normal li 240 60 0.63 2.5 139.60 Max.normal li	264	60	0.58		136.00				Max.n	ormal load
100 50 1.47 2.5 144.10 Max.normal leads of the second	Power supp	ly PoE-1	50W53-NF	P1						
240 50 0.62 2.5 139.57 Max.normal leads of the control o	90	50	1.65		145.46			-	Max.n	ormal load
264 50 0.57 139.80 Max.normal leads of the second	100	50	1.47	2.5	144.10				Max.n	ormal load
90 60 1.66 146.20 Max.normal le 100 60 1.48 2.5 144.22 Max.normal le 240 60 0.63 2.5 139.60 Max.normal le	240	50	0.62	2.5	139.57				Max.n	ormal load
100 60 1.48 2.5 144.22 Max.normal le 240 60 0.63 2.5 139.60 Max.normal le	264	50	0.57		139.80				Max.n	ormal load
240 60 0.63 2.5 139.60 Max.normal l	90	60	1.66		146.20				Max.n	ormal load
	100	60	1.48	2.5	144.22				Max.n	ormal load
264 60 0.58 139.36 Max.normal l	240	60	0.63	2.5	139.60				Max.n	ormal load
	264	60	0.58		139.36				Max.n	ormal load

B.3	TABLE: Abno	rmal opera	ting condit	tion tes	sts				Р
Ambient temperature (°C)								3/4	
Power source	e for EUT: Mai	nufacturer, n	nodel/type,	output	rating:	-			3/4
Component No. Condition Supply voltage, (V) Test time Fuse no. Current (A) Couple (C) (C) (C)							servation		
Power supply AY-G150-53									

Page 52 of 54 Report No.: 083-2500438-000

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

		_	_	_					_
l l	TABLE: Abno					T			Р
Ambient temp									3/4
Power source	for EUT: Ma	nufacturer, r	nodel/type,	output	rating:	-			3/4
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current , (A)	T- couple	Temp. (°C)	Obs	servation
Openings Power supply	Blocked	264VAC	3h	Fu1	1.63		LF1 coil: 67.7°C LF2 coil: 73.5°C L2 coil: 81.7°C Metal enclosure above T1: 39.4°C Ambient: 24.7°C	EUT n no dar no haz	-
Power supply	ADO-150W1	-A 53	<u> </u>		<u> </u>		I. -	I	
Openings	Blocked	264VAC	3h	Fu1	1.60		LF101 coil: 67.3°C LF201 coil: 92.2°C L101 coil: 88.9°C Metal enclosure above T101: 35.6°C Ambient: 24.3°C		
Power supply	PoE-150W5	3-NP1							
Openings	Blocked	264VAC	3h	Fu1	1.66		LC2 coil: 83.2°C L201 coil: 92.0°C T301 coil: 82.9°C Metal enclosure above T301: 40.2°C Ambient: 24.2°C		
Supplementa	ry information).	ı		1	1	ı	1	

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.

Page 53 of 54 Report No.: 083-2500438-000

				IEC 6	2368-1						
Clause	Clause Requirement + Test Result - Remark										Verdict
B.4	TAB	LE: Fault co	ndition tests								N/A
Ambient ten	npera	ture (°C)				:					3/4
Power source	ce for	EUT: Manuf	acturer, mode	l/type, outp	ut rating	.:					3/4
Component	No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer		T-couple	Temp. (°C)	0	bservation
Supplement	ary ir	nformation:									
-		•									<u> </u>

Annex M.3	TABLE: Ba	tteries							N/A	
The tests of 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										
	Disch	narging	Un-	Cha	rging	Disch	arging	Reverse	d charging	
	Meas. Current	Manuf. Specs.	intentional charging	Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.	
Supplementa	ry information	1:						•		

Annex M.4	Table: Ac batteries	y lithium		N/A					
Batter	Ok	oservation							
No. U I (A) Temp I									
Supplement	ary Informa	tion:							
Battery identificat		narging at T _{lowest} (°C)	Observa	ition	C	Charging at T _{highest} (°C)	Obs	ervati	on
Supplement	ary Informa	tion:							

Page 54 of 54

Report No.: 083-2500438-000

			9							
		IE	C 62368-1							
Clause	Require	ement + Test		Result -	Remark	Verdict				
Annex Q.1	TABLE: Circuits inte	nded for interc	onnection with	n building wirir	ng (LPS)	Р				
Note: Meas	sured UOC (V) with all lo	ad circuits disco	nnected:			•				
Output	Components	U _{oc} (V)	Isc	(A)	S (VA)				
Circuit			Meas.	Limit	Meas.	Limit				
LAN	LAN Normal 0 0 8 0 100									
Supplemen	ntary Information:									
SC=Short of	circuit, OC=Open circuit									

T.2, T.3, T.4, T.5	TABI	TABLE: Steady force test					Р
Part/Loca	tion	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
Enclosu	re	Metal	1.0	250	5	Intact, no	creaking
Internal components				10	5	Intact, no	creaking
Supplementary information:							

T.6, T.9	TAB	LE: Impact tests				Р
Part/Location	on	Material	Thickness (mm)	Vertical distance (mm)	Observation	
Enclosure	0	Metal	1.0	1300	No damage	
Supplementary information:						

T.7	TAB	TABLE: Drop tests					
Part/Locati	on	Material	Thickness (mm)	Drop Height (mm)	Observation		
Supplementary information:							

T.8	TAB	TABLE: Stress relief test					N/A
Part/Locat	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
Supplementary information:							

--End of this Report--

Page 1 of 9

Report No.: 083-2500438-000

			Attachm	ent No. 1			
		IEC	62368_1D	- ATTACHMENT	-		
Clause	Requirement	+ Test		Re	esult - Remar	K	Verdict
		ATTA	CHMENT T	O TEST REPOR	RT		
(Audio/v			FFERENC	2368-1 ES AND NATIOI chnology equipm			ents)
Differences a	ccording to	: EN	l 62368-1:2	014+A11:2017			
Attachment I	Form No	: EU	J_GD_IEC6	2368_1D_II			
Attachment (Originator	: Ne	emko AS				
Master Attac	hment	: Da	ite 2021-02	-04			
		em for Confo		ng and Certifica	ation of Elec	trical Equipme	nt
	CENELEC C	OMMON MOE	DIFICATION	NS (EN)			Р
		oclauses, notes 62368-1:2014		res and annexes	s which are a	dditional to	Р
CONTENTS	Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Annex ZC (informative) Annex ZD (informative) Normative references to international publications with their corresponding European publications Special national conditions A-deviations IEC and CENELEC code designations for flexible				oublications	Р	
	cords Delete all the "country" notes in the reference document (IEC 62368-1:2014) according to the following list:						Р
	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	5.5.6	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	10.5.3 Note 2 10.6.2.1 Note 3 F.3.3.6 Note 3					
	For special r	national condition	ons, see Ar	nex ZB.			
1		wing note: use of certain subst ment is restricted w					Р

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

For additional requirements, see 10.5.1.

Report No.: 083-2500438-000

10.5.1	Add the following after the first paragraph:	N/A
	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 cm², 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.	
10.6.1	Add the following paragraph to the end of the subclause:	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	
10.Z1	Add the following new subclause after 10.6.5.	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	
	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	
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

Bibliography	Add the following	standards:	N/A			
	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	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	•				
	IEC 60664-5	NOTE Harmonized as EN 60664-5.				
	IEC 61032:1997	NOTE Harmonized as EN 61032:1998	3 (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	IEC 61643-1 NOTE Harmonized as EN 61643-1.				
	IEC 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.				
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITIONS (EN)	N/A			
4.1.15	-	d, Norway and Sweden	N/A			
		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:					
		paratets stikprop skal tilsluttes en ord som giver forbindelse til "				
	In Finland : "Laite varustettuun pisto	on liitettävä suojakoskettimilla rasiaan"				
	In Norway : "Appa stikkontakt"	ıratet må tilkoples jordet				
	In Sweden : "Appa uttag"	araten skall anslutas till jordat				
4.7.3	United Kingdom		N/A			
	To the end of the	subclause the following is added:				
	complying with BS	performed using a socket-outlet S 1363, and the plug part shall be elevant clauses of BS 1363. Also of this annex				

Report No.: 083-2500438-000

5.2.2.2	Denmark	N/A
V.L.L.L	After the 2nd paragraph add the following:	14/1
	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.	
5.4.11.1 and	Finland and Sweden	N/A
Annex G	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.	
5.5.2.1	Norway	N/A
	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).	

5.5.6	Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	
5.6.1	Denmark	N/A
	Add to the end of the subclause	
	Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.	
	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	
5.6.4.2.1	Ireland and United Kingdom	N/A
	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. 	
5.6.5.1	To the second paragraph the following is added:	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:	
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	
5.7.5	Denmark	N/A
	To the end of the subclause the following is added:	
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	

5.7.6.1	Norway and Sweden	N/A
	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 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): "Apparator som or koplet til beskyttelsesiond via	
	"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	N/A
	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.	

Report No.: 083-2500438-000

B.3.1 and B.4	Ireland and United Kingdom	N/A
	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	
G.4.2	Denmark	N/A
	To the end of the subclause the following is added:	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	
	Justification: Heavy Current Regulations, Section 6c	
G.4.2	United Kingdom	N/A
	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.	

Report No.: 083-2500438-000

G.7.1 **United Kingdom** N/A 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. G.7.1 Ireland N/A 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 G.7.2 **Ireland and United Kingdom** N/A To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A. ZC ANNEX ZC, NATIONAL DEVIATIONS (EN) N/A 10.5.2 N/A 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de

Page 1 of 82

Report Reference No.: 083-2500438-000

Attachment No. 2

National and Group Differences for IEC 62368-1:2014 (Second Edition) as per CB Bulletin

Country	CENELEC	National	Base standard	National standard	Tested
Country	Group differ. (see separate attachment)	differ.	base standard	ivalional standard	resteu
AR Argentina	-	Yes	IEC 62368-1 ed1	-	Yes
AU Australia	-	Yes	IEC 62368-1 ed2	AS/NZS 62368.1:2018	Yes
AT Austria	Yes	-	IEC 62368-1 ed2	EN 62368-1:2014	Yes
BY Belarus	-	-	IEC 62368-1 ed2	-	Yes
BE Belgium	Yes	-	IEC 62368-1 ed2	-	Yes
CA Canada	-	Yes	IEC 62368-1 ed2	CAN/CSA C22.2 No. 62368-1- 14	Yes
CH Switzerland	Yes	-	IEC 62368-1 ed2	-	Yes
CN China	-	-	IEC 62368-1 ed2	-	Yes
DE Germany	Yes	-	IEC 62368-1 ed2	EN 62368-1:2014-08	Yes
DK Denmark	Yes	Yes	IEC 62368-1 ed2	DS/EN 62368-1:2014	Yes
FI Finland	Yes	Yes	IEC 62368-1 ed2	-	Yes
FR France	Yes	-	IEC 62368-1 ed2	-	Yes
GB United Kingdom	Yes	-	IEC 62368-1 ed2	-	Yes
HU Hungary	Yes	-	IEC 62368-1 ed2	-	Yes
IT Italy	Yes	Yes	IEC 62368-1 ed2	CEI EN 62368-1:2016	Yes
IL Israel	-	-	IEC 62368-1 ed2	-	Yes
JP Japan	-	-	IEC 62368-1 ed2	J62368-1(2020)	Yes
KR Korea	-	-	IEC 62368-1 ed2	-	Yes
MY Malaysia	-	-	IEC 62368-1 ed2	-	Yes
NO Norway	Yes	-	IEC 62368-1 ed2	-	No
NL Netherlands	Yes	-	IEC 62368-1 ed2	-	Yes
SE Sweden	Yes	Yes	IEC 62368-1 ed2	SS-EN 62368- 1:2014+AC1:2015+AC2:2017+A 11:2017	Yes
CH Switzerland	-	-	IEC 62368-1 ed2	-	Yes
SG Singapore	-	-	IEC 62368-1 ed2	-	Yes
SI Slovenia	Yes	-	IEC 62368-1 ed2	-	Yes
UA Ukraine	-	-	IEC 62368-1 ed2	-	Yes
US United States of America	-	Yes	IEC 62368-1 ed2	CSA/UL 62368-1:2014	Yes

Page 2 of 82

Report Reference No.: 083-2500438-000

Attachment No. 2

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.

Throughout this report a point is used as the decimal separator.

See attachment 1 for European Group Differences and National Differences.

Note: Before placing the products in the different countries, the manufacturer must ensure that:

- 1. Operating Instructions, Ratings Labels and Warnings Labels written in an Accepted or Official Language of the county in question.
- 2. The equipment complies with the National Standards and/or Electrical Codes of the country in question.
- 3. Mains plugs and internal wirings should be assessed to the national standard.

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)

Page 3 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

AR Arg	entina		AR
	Ratings shall cover 220 Vac - 50 Hz		Р
	Class 0 and Class 0I appliances are not allowed		N/A
	Safety instructions and manuals shall be written in Spanish language (Resolution 92/98)	Will be evaluated during national approval	N/A
	Country of origin shall be shown on the marking plate or, if not possible, in the primary packaging (Resolution 92/98)	Will be evaluated during national approval	N/A
	Address of the importer in Argentina shall be shown on the product or on the primary packaging (Resolution 92/98)	Will be evaluated during national approval	N/A
	Class I appliances provided with plugs shall be provided with the label specified in sheet "Class I" (Disposition 731/87)		N/A
	Class II appliances provided with plugs shall be provided with the label specified in sheet "Class II" (Disposition 731/87)		N/A
	Plugs shall be in conformity with IRAM 2063 Standard for Class II appliances and IRAM 2073 Standard for Class I appliances (Resolution 524/98)		N/A
	Adaptors/Transformers provided with integrated plugs shall be provided with blades which shall meet the geometry of IRAM 2063 standard for Class II appliances or IRAM 2073 standard for Class I appliances (Resolution 524/98)		N/A
	Appliances certified under System Nº 4 (Type Certification scheme) shall be marked with the symbol specified in sheet "St Mark" (Resolution 197/04)		N/A
	Appliances certified under System N°5 (Mark of Conformity Certification scheme) shall be marked with the symbols specified in sheet "S Mark" (Resolution 799/99)		N/A

Page 4 of 82

Report Reference No.: 083-2500438-000

	IFC 62	368_1B ATTACHME	NT	
Clause	Requirement + Test	300_1B / (1 1 / (0 1 livil)	Result - Remark	Verdict
	•		AL DIFFERENCES	
Differences a	cording to AS/NZ	ZS 62368.1:2018		
Attachment F	orm No : AU_N	Z_ND_IEC62368_1B		
Attachment C	riginator: JAS-A	NZ		
Master Attach	ment 2018-	02		
	017 IEC System for Conformi eva, Switzerland. All rights res		fication of Electrical Equipme	nt
	National Differences			
Appendix ZZ	Variations to IEC 62368-1:2014	(ED. 2.0) for Australi	ia and New Zealand	Р
ZZ1 Scope	This Appendix lists the normati	ve variations to IEC 6	2368-1:2014 (ED. 2.0)	Р
ZZ2 Variations	The following modifications are	e required for Australi	an/New Zealand conditions:	Р
2	Add the following to the list of references: The following normative docur in Appendix ZZ: -AS/NZS 3112, Approval and a Plugs and socket-outlets -AS/NZS 3123, Approval and a Plugs, socket-outlets and coup industrial application -AS/NZS 3191, Electric flexible -AS/NZS 60065, Audio, video electronic apparatus—Safety is (IEC 60065:2015 (ED.8.0) MC -AS/NZS 60320.1, Appliance of household and similar general Part 1: General requirements (Ed.2.1 (2007) MOD) -AS/NZS 60320.2.2, Appliance household and similar general Part 2.2: Interconnection coup and similar equipment (IEC 602, Ed.2.0 (1998) MOD) -AS/NZS 60695.2.11, Fire haz 2.11: Glowing/hot wire based a wire flammability test method in -AS/NZS 60695.11.5, Fire haz 11.5: Test flames—Needle-flam Apparatus, confirmatory test a guidance -AS/NZS 60695.11.10, Fire haz 2.11.25 60695.11.10, Fire haz 2.11.25 60695.11.10, Fire haz 2.11.25 60695.11.10, Fire haz 3.11.25 60695.11.10, Fire haz 4.11.25 60695.11.10, Fire h	nents are referenced rest specification— rest specification— rest specification— release for general requirements requirem		N/A

Page 5 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	11.10: Test flames—50 W horizontal and vertical flame test methods -AS/NZS 60884.1, Plugs and socket-outlets for household and similar purposes, Part 1: General requirements -AS/NZS 60950.1:2015, Information technology equipment—Safety, Part 1: General requirements (IEC 60950-1, Ed.2.2 (2013), MOD) IEC 61032:1997, Protection of persons and equipment by enclosures—Probes for verification -AS/NZS 61558.1:2008 (including Amendment 2:2015), Safety of Power Transformers, Power Supplies, Reactors and Similar Products, Part 1: General requirements and tests (IEC 61558-1 Ed 2.1, MOD) -AS/NZS 61558.2.16, 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.		
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'.		Р
4.7	Equipment for direct insertion into mains socke	t-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
4.8	Delete existing clause title and replace with the followard for the following coin/button cell batterion.	· ·	N/A

Page 6 of 82

Report Reference No.: 083-2500438-000

		IE	C 62368_1B ATTACHME	NT			
Clause	Requirement +	- Test		Result	- Remark		Verdict
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 S First line, dele	Safeguard					N/A
4.8.3	Construction	the word 'E ing one or n	quipment' insert the				N/A
4.8.5	following: Compliance is +/-1 N for 10 s door/cover by probe 11 of IE unfavourable	t paragraph checked by s to the batte a rigid test f C 61032:19 place and in force shall b	and replace with the r applying a force of 30 N ery compartment iinger according to test 97 at the most the most unfavourable be applied in one				N/A
5.4.10.2	Test methods			I .			N/A
5.4.10.2.1	following: In Australia or test of both Cl and Clause 5.	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				N/A	
Table 29	Replace the tab	le with the fol	llowing:				N/A
Parts	Impulse test Steady state test		Austral				
Parts indicate Clause 5.4.1		2.5 kV 10/700 μs	7.0 kV for hand-held telephones and headsets, 2.5 kV for equipment. 10/700 µs	r other	1.5 kV	3 kV	
Parts indicated in Clause 5.4.10.1 b) and c) b		1.5 kV 10/7	′00 μs °		1.0 kV	1.5 kV	
^b Surge supp Clause 5.4.1	0.2.2 when teste	removed, po ed as compo	d. rovided that such devices onents outside the equipm e suppressor to operate ar	ent.	·		

Page 7 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHME	NT	
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, insert 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 6.201 External power supplies, docking stations and 6.202 Resistance to fire—Alternative tests (see special national conditions)		N/A
8.5.4	Special categories of equipment comprising mov	ring parts	N/A
8.5.4.1	Large data storage equipment In the first dashed row and the second dashed rows replace ¹EC 60950-1:2005' with 'AS/NZS 60950.1:2015'.		
		1	1

Page 8 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
8.6.1 and Table 36	Requirements 1. Table 36, <i>insert</i> Footnote c at the end of the 'Glass slide' heading, and <i>add</i> 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. 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, <i>add</i> 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, <i>delete</i> the words 'MS2 and MS3 television sets' and <i>replace</i> with 'MS2 and MS3 television sets and display devices'		N/A
8.6.1	After Clause 8.6.1 add the following new clauses: 8.6.1.201 Instructional safeguard for fixed-mount television sets (see special national conditions)		N/A
Annex F	Mains appliance outlet and socket-outlet		
Paragraph F.3.5.1	markings Replace 'IEC 60320-2-2' with 'AS/NZS 60320.2.2'.		N/A
Annex G	Mains connectors		
Paragraph G.4.2	 In the second line <i>insert</i> 'or AS/NZS 3123' after 'IEC 60906-1'. In the second line <i>insert</i> 'or AS/NZS 60320 series' after 'IEC 60320 series' Add the following new paragraph: 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	Transformers, General		
G.5.3.1	1 In the third dashed point <i>replace</i> '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, replace 'IEC 60320-1' with 'AS/NZS 60320.1'		N/A

Page 9 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
Table G.5	Sizes of conductors 1 In the second row, first column, delete '6' and replace with '7.5' 2 In the second row, second column, delete '0,75' and replace with '0.75 ^b 3 Delete Note 1. 4 Replace 'NOTE 2' with 'NOTE:'. 5 Delete the text of 'Footnote b' and replace 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 replace 'IEC 60320-1' with 'AS/NZS 60320.1' 7 In Footnote d replace 'IEC 60320-1' with	Tresult - Ivenialit	N/A	
Annex M Paragraph M.3.2	'AS/NZS 60320.1' 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		N/A	
	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. Special national conditions (if any)			

Page 10 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
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. 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		N/A		
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		N/A		

Page 11 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B	ATTACHMENT	
Clause	Requirement + Test	Verdict	
	for the possible effect of propagating the fire fro another.	m one part to	
	Compliance shall be checked by the te Clauses 6.202.2, 6.202.3 and 6.202.4. For the base material of printed boards compliance shall be checked by the te of Clause 6.202.5. The tests shall be carried out on parts metallic material which have been rem the equipment. When the glow-wire te out, the parts shall be placed in the sa orientation as they would be in normal These tests are not carried out on inte	of non- noved from st is carried me use.	N/A
6.202.2	Testing of non-metallic materials Parts of non-metallic material shall be the glow-wire test of AS/NZS 60695.2 shall be carried out at 550°C. Parts for which the glow-wire test can carried out, such as those made of so material, shall meet the requirements ISO 9772 for category FH-3 material. wire test shall be not carried out on pa material classified at least FH-3 accord 9772 provided that the relevant part is than the sample tested.	anot be if or foamy specified in The glow- irts of ding to ISO	N/A
6.202.3	Testing of insulating materials Parts of insulating material supporting Ignition Sources shall be subject to the glow-wire test of AS/NZS 60695 shall be carried out at 750°C. The test shall be also carried out on or insulating material which are within a distance of 3 mm of the connections.	ther parts of ection.	N/A
	For parts which withstand the glow-wind produce a flame, other parts above the within the envelope of a vertical cylind diameter of 20 mm and a height of 50 subjected to the needle-flame test. However, parts shielded by a barrier withe needle-flame test need not be test.	e connection er having a mm shall be which meets	N/A
	The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 following modifications:		
	Clause of AS/NZS Change 60695.11.5		.,,
	9 Test procedure		N/A
	9.2 Application of Delete the financial second part		

Page 12 of 82 Report Reference No.: 083-2500438-000

	IE	EC 62368_1B ATTACHME	ENT	
Clause	Requirement + Test		Result - Remark	Verdict
	needle-flame	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		
	11 Evaluation of test results	the test. 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.		
	The needle-flame test sh parts of material classifie V-0 or V-1 according to A provided that the relevan the sample tested.	d as .S/NZS 60695.11.10,		
6.202.4	Testing in the event of material If parts, other than enclose the glow wire tests of Clatextinguish within 30 s after glowwire tip, the needle-ff Clause 6.202.3 shall be metallic material which as mm or which are likely to flame during the tests of	sures, do not withstand use 6.202.3, by failure to er the removal of the lame test detailed in nade on all parts of nonce within a distance of 50 be impinged upon by		N/A

Page 13 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	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.		
6.202.5	Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause 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. Conformance 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		N/A

Page 14 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	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
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		N/A

Page 15 of 82

Report Reference No.: 083-2500438-000

	IEC62368_1D 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 ac	ccording to AS/NZS 62368.1:2018			
TRF template	used:: IECEE OD-2020-F3, Ed. 1.1			
Attachment F	orm No AU_NZ_ND_IEC62368_1D			
Attachment O	Priginator: JAS-ANZ			
Master Attach	nment: 2021-04-19			
	2021 IEC System for Conformity Testing and Certification of Electrical Equipreva, Switzerland. All rights reserved.	nent		
	National Differences	Р		
Appendix ZZ	Variations to IEC 62368-1:2014 (ED. 2.0) for Australia and New Zealand	Р		
ZZ1 Scope	This Appendix lists the normative variations to IEC 62368-1:2014 (ED. 2.0)	Р		
ZZ2 Variations	The following modifications are required for Australian/New Zealand conditions:	Р		
2	Add the following to the list of normative references: The following normative documents are referenced in Appendix ZZ: -AS/NZS 3112, Approval and test specification— Plugs and socket-outlets -AS/NZS 3123, Approval and test specification— Plugs, socket-outlets and couplers for general industrial application -AS/NZS 3191, Electric flexible cords -AS/NZS 60065, Audio, video and similar electronic apparatus—Safety requirements (IEC 60065:2015 (ED.8.0) MOD) -AS/NZS 60320.1, Appliance couplers for household and similar general purposes, Part 1: General requirements (IEC 60320-1, Ed.2.1 (2007) MOD) -AS/NZS 60320.2.2, 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) -AS/NZS 60695.2.11, Fire hazard testing, Part 2.11: Glowing/hot wire based test methods—Glowwire flammability test method for end-products -AS/NZS 60695.11.5, Fire hazard testing, Part 11.5: Test flames—Needle-flame test method— Apparatus, confirmatory test arrangement and guidance	N/A		

Page 16 of 82 Report Reference No.: 083-2500438-000

Olavra -	IEC62368_1D ATTACHME		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Clause	Requirement + Test -AS/NZS 60695.11.10, Fire hazard testing, Part 11.10: Test flames—50 W horizontal and vertical flame test methods -AS/NZS 60884.1, Plugs and socket-outlets for household and similar purposes, Part 1: General requirements -AS/NZS 60950.1:2015, Information technology equipment—Safety, Part 1: General requirements (IEC 60950-1, Ed.2.2 (2013), MOD) IEC 61032:1997, Protection of persons and equipment by enclosures—Probes for verification -AS/NZS 61558.1:2008 (including Amendment 2:2015), Safety of Power Transformers, Power Supplies, Reactors and Similar Products, Part 1: General requirements and tests (IEC 61558-1 Ed 2.1, MOD) -AS/NZS 61558.2.16, 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.	Result - Remark	Verdict
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'.		P N/A
	Equipment for direct insertion into mains socke	et-outlets	21/2
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
4.8	Delete existing clause title and replace with the foll 4.8 Products containing coin/button cell batteri	_	N/A

Page 17 of 82 Report Reference No.: 083-2500438-000

		ΙE	C62368_1D ATTACHMEN	NT			
Clause	Requirement + Te	est		Result	- Remark		Verdict
4.8.1	replace with the function include coin/but of 32 mm or less. 2 After the secon following Note: NOTE 1: Batterie: 3 After the third context of the context	ollowing: tton cell b and dashed s are speedashed p NOTE 2'.	ecified in IEC 60086-2.				N/A
4.8.2	Instructional Saf First line, delete t		lithium'.				N/A
4.8.3	Construction	e word 'E one or n	quipment' insert the				N/A
4.8.5	following: Compliance is ch +/-1 N for 10 s to door/cover by a ri probe 11 of IEC 6	ecked by the batte igid test f 51032:19 ce and in ce shall b	inger according to test 97 at the most the most unfavourable				N/A
5.4.10.2	Test methods	.	I				N/A
5.4.10.2.1	following: In Australia only, test of both Claus and Clause 5.4.10	the separ se 5.4.10. 0.2.3. In l cked by t	New Zealand, the he test of either Clause				N/A
Table 29	Replace the table w	vith the fol	llowing:				N/A
Parts	Ne Ze	ew ealand	Impulse test Australia		Steady stat New Zealand	Austral ia	
Parts indica Clause 5.4.		5 kV 0/700 μs	7.0 kV for hand-held telephones and headsets, 2.5 kV for equipment. 10/700 µs	r other	1.5 kV	3 kV	
^a Surge sup	10.1 b) and c) b pressors shall not be		00 µs °	nass th	1.0 kV	1.5 kV	
Clause 5.4.	10.2.2 when tested a	as compo	nents outside the equipm suppressor to operate an	ent.	·		

Page 18 of 82 Report Reference No.: 083-2500438-000

	IEC62368_1D ATTACHMEN	NT	
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, insert 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. 6.201 External power supplies, docking stations and 6.202 Resistance to fire—Alternative tests (see special national conditions)		N/A
8.5.4	Special categories of equipment comprising mov	ing parts	N/A
8.5.4.1	Large data storage equipment		N/A
	In the first dashed row and the second dashed rows <i>replace</i> 1EC 60950-1:2005' with 'AS/NZS 60950.1:2015'.		

Page 19 of 82

Report Reference No.: 083-2500438-000

IEC62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
8.6.1 and Table 36	and Requirements			
8.6.1	After Clause 8.6.1 add the following new clauses: 8.6.1.201 Instructional safeguard for fixed-mount television sets (see special national conditions)		N/A	
Annex F	Mains appliance outlet and socket-outlet		N/A	
Paragraph F.3.5.1	markings Replace 'IEC 60320-2-2' with 'AS/NZS 60320.2.2'.			
Annex G	Mains connectors		N/A	
Paragraph G.4.2	 In the second line <i>insert</i> 'or AS/NZS 3123' after 'IEC 60906-1'. In the second line <i>insert</i> 'or AS/NZS 60320 series' after 'IEC 60320 series' Add the following new paragraph: 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. 			
Paragraph	Transformers, General		N/A	
G.5.3.1	1 In the third dashed point <i>replace</i> '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'.			
Paragraph G.7.1	Mains supply cords, General In the fourth dashed paragraph, replace 'IEC 60320-1' with 'AS/NZS 60320.1'		N/A	

Page 20 of 82 Report Reference No.: 083-2500438-000

	IEC62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
Table G.5	Sizes of conductors 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'		N/A		
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)		N/A		
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. 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		N/A		

Page 21 of 82 Report Reference No.: 083-2500438-000

IEC62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
	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	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.		N/A	
	Compliance shall be checked by the tests of Clauses 6.202.2, 6.202.3 and 6.202.4. For the base material of printed boards, compliance shall be checked by the test of Clause 6.202.5. The tests shall be carried out on parts of nonmetallic 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.		N/A	

Page 22 of 82 Report Reference No.: 083-2500438-000

		EC62368_1D ATTACHME	NT	
Clause	Requirement + Test		Result - Remark	Verdict
6.202.2	ISO 9772 for category F wire test shall be not car material classified at lea	terial shall be subject to MZS 60695.2.11 which 50°Cwire test cannot be se made of soft or foamy requirements specified in H-3 material. The glow-		N/A
6.202.3	Testing of insulating mater Parts of insulating mater Ignition Sources shall be to the glow-wire test of A shall be carried out at 75	rial supporting Potential e subject AS/NZS 60695.2.11 which 50°C. Irried out on other parts of a are m of the connection.		N/A
	For parts which withstan produce a flame, other p within the envelope of a diameter of 20 mm and subjected to the needle-	parts above the connection vertical cylinder having a land height of 50 mm shall be flame test. by a barrier which meets led not be tested hall be made in		N/A
	following modifications: 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.		

Page 23 of 82

Report Reference No.: 083-2500438-000

	II	EC62368_1D ATTACHME	ENT	
Clause	Requirement + Test		Result - Remark	Verdict
		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.		
	The needle-flame test sh parts of material classifie V-0 or V-1 according to A provided that the relevan the sample tested.	d as \S/NZS 60695.11.10,		
6.202.4	Testing in the event of material	non-extinguishing		N/A
	extinguish within 30 s afti wire tip, the needle-flame 6.202.3 shall be made or material which are within which are likely to be imp during the tests of Clause shielded by a separate be needle-flame test need n NOTE 1: If the enclosure does the equipment is considered to requirements of Clause 6.202 v consequential testing. NOTE 2: If other parts do not w to ignition of the tissue paper ar or glowing particles can fall ontunderneath the equipment, the have failed to meet the requirer the need for consequential testi NOTE 3: Parts likely to be impire	ause 6.202.3, by failure to the removal of the glow the test detailed in Clause in all parts of non-metallic a distance of 50 mm or binged upon by flame to 6.202.3. Parts arrier which meets the ot be tested. In a distance of 50 mm or binged upon by flame to 6.202.3. Parts arrier which meets the ot be tested. In the without the need for the without the need for the without the need for the without the glow-wire test due and if this indicates that burning to an external surface equipment is considered to ments of Clause 6.202 without ing. Inged upon by the flame are need envelope of a vertical cylinder the surface of the control of the flame are need to meet the envelope of a vertical cylinder the surface of the control of the flame are need to		

Page 24 of 82

Report Reference No.: 083-2500438-000

	IEC62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.				
6.202.5	Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause 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		N/A		
	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. Conformance 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		

Page 25 of 82 Report Reference No.: 083-2500438-000

	IEC62368_1D ATTACHME	NT	
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

Page 26 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHMENT	
Clause	Requirement + Test Result - Remark	Verdict
0.000	ATTACHMENT TO TEST REPORT	1 010.01
	IEC 62368-1 (AUSTRALIA / NEW ZEALAND) NATIONAL DIFFERENCES (Audio/video, information and communication technology equipments)	ent)
Differences ac	ccording to AS/NZS 62368.1:2018	
TRF template	used: IECEE OD-2020-F3, Ed. 1.1	
Attachment F	orm No AU_NZ_ND_IEC62368_1D	
Attachment O	Priginator: JAS-ANZ	
Master Attach	ment: 2022-05-01	
	2020 IEC System for Conformity Testing and Certification of Electrical eva, Switzerland. All rights reserved.	l Equipment
	National Differences	
Appendix ZZ	Variations to IEC 62368-1:2014 (ED. 2.0) for Australia and New Zealand	Р
ZZ1 Scope	This Appendix lists the normative variations to IEC 62368-1:2014 (ED. 2.0)) P
ZZ2 Variations	The following modifications are required for Australian/New Zealand cond	ditions:
2	Add the following to the list of normative references: The following normative documents are referenced in Appendix ZZ: -AS/NZS 3112, Approval and test specification— Plugs and socket-outlets -AS/NZS 3123, Approval and test specification— Plugs, socket-outlets and couplers for general industrial application -AS/NZS 3191, Electric flexible cords -AS/NZS 60065, Audio, video and similar electronic apparatus—Safety requirements (IEC 60065:2015 (ED.8.0) MOD) -AS/NZS 60320.1, Appliance couplers for household and similar general purposes, Part 1: General requirements (IEC 60320-1, Ed.2.1 (2007) MOD) -AS/NZS 60320.2.2, 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) -AS/NZS 60695.2.11, Fire hazard testing, Part 2.11: Glowing/hot wire based test methods—Glowwire flammability test method for end-products -AS/NZS 60695.11.5, Fire hazard testing, Part 11.5: Test flames—Needle-flame test method— Apparatus, confirmatory test arrangement and guidance	N/A

Page 27 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	-AS/NZS 60695.11.10, Fire hazard testing, Part 11.10: Test flames—50 W horizontal and vertical flame test methods -AS/NZS 60884.1, Plugs and socket-outlets for household and similar purposes, Part 1: General requirements -AS/NZS 60950.1:2015, Information technology equipment—Safety, Part 1: General requirements (IEC 60950-1, Ed.2.2 (2013), MOD) IEC 61032:1997, Protection of persons and equipment by enclosures—Probes for verification -AS/NZS 61558.1:2008 (including Amendment 2:2015), Safety of Power Transformers, Power Supplies, Reactors and Similar Products, Part 1: General requirements and tests (IEC 61558-1 Ed 2.1, MOD) -AS/NZS 61558.2.16, 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.		
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'.		Р
4.7	2 Replace the text 'IEC 60065' with 'AS/NZS 60065'. Equipment for direct insertion into mains socke	t-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
4.8	Delete existing clause title and replace with the folk 4.8 Products containing coin/button cell batterie	-	N/A

Page 28 of 82 Report Reference No.: 083-2500438-000

	_	IE	C 62368_1D ATTACHME	NT			
Clause	Requirement -	- Test		Result	- Remark		Verdict
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 First line, dele	Safeguard					N/A
4.8.3	Construction First line, after words 'contain coin/button ba	ning one or n	quipment' <i>insert</i> the nore				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				N/A		
5.4.10.2	Test methods						N/A
5.4.10.2.1	following: In Australia or test of both Cl and Clause 5.	aly, the sepa ause 5.4.10. 4.10.2.3. In checked by t	New Zealand, the he test of either Clause				N/A
Table 29	Replace the tab	le with the fo	llowing:				N/A
Parts		New Zealand	Impulse test Australia		Steady stat New Zealand	Austral ia	
Parts indicate Clause 5.4.10		2.5 kV 10/700 μs	7.0 kV for hand-held telephones and headsets, 2.5 kV fo equipment. 10/700 µs	r other	1.5 kV	3 kV	
Parts indicated in Clause 5.4.10.1 b) and c) b		1.5 kV 10/7	′00 μs °		1.0 kV	1.5 kV	
^b Surge supplied Clause 5.4.10	0.2.2 when teste	removed, poed as compo	d. rovided that such devices onents outside the equipm suppressor to operate ar	nent.			

Page 29 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1D 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, insert 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)		
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 1EC 60950-1:2005' with 'AS/NZS 60950.1:2015'.	N/A	

Page 30 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
8.6.1 and Table 36	Requirements 1. Table 36, <i>insert</i> Footnote c at the end of the 'Glass slide' heading, and <i>add</i> 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. 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, <i>add</i> 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, <i>delete</i> the words 'MS2 and MS3 television sets' and <i>replace</i> with 'MS2 and MS3 television sets and display devices'		N/A		
8.6.1	After Clause 8.6.1 add the following new clauses: 8.6.1.201 Instructional safeguard for fixed- mount television sets (see special national conditions)		N/A		
Annex F	Mains appliance outlet and socket-outlet				
Paragraph F.3.5.1	markings Replace 'IEC 60320-2-2' with 'AS/NZS 60320.2.2'.		N/A		
Annex G	Mains connectors				
Paragraph G.4.2	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	Transformers, General				
G.5.3.1	1 In the third dashed point <i>replace</i> '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, replace 'IEC 60320-1' with 'AS/NZS 60320.1'		N/A		

Page 31 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
Table G.5	Sizes of conductors 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'		N/A		
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)				

Page 32 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHME	ENT	T
Clause	Requirement + Test	Result - Remark	Verdict
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. 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.3 and the		N/A
6.202	simulated single-fault conditions of Annex B.4 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		N/A

Page 33 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTA	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
	for the possible effect of propagating the fire from one pa another.	rt to	
	Compliance shall be checked by the tests of Clauses 6.202.2, 6.202.3 and 6.202.4. For the base material of printed boards, compliance shall be checked by the test of Clause 6.202.5. The tests shall be carried out on parts of non-metallic material which have been removed frequipment. When the glow-wire test is callout, the parts shall be placed in the same orientation as they would be in normal use. These tests are not carried out on internal wire.	rom rried	N/A
6.202.2	Testing of non-metallic materials Parts of non-metallic material shall be subject 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 foal material, shall meet the requirements specified ISO 9772 for category FH-3 material. The glowire test shall be not carried out on parts of material classified at least FH-3 according to 9772 provided that the relevant part is not thir than the sample tested.	my ed in w-	N/A
6.202.3	Testing of insulating materials Parts of insulating material supporting Potenti Ignition Sources shall be subject to the glow-wire test of AS/NZS 60695.2.11 w shall be carried out at 750°C. The test shall be also carried out on other par insulating material which are within a distance of 3 mm of the connection. NOTE: Contacts in components such as switch contacts considered to be connections	hich ts of	N/A
	For parts which withstand the glow-wire test be produce a flame, other parts above the connew ithin the envelope of a vertical cylinder having diameter of 20 mm and a height of 50 mm shall subjected to the needle-flame test. However, parts shielded by a barrier which must the needle-flame test need not be tested	ection ng a all be	N/A
	The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the following modifications: Clause of AS/NZS 60695.11.5 Change		
	9 Test procedure		N/A
	9.2 Application of Delete the first and second paragraphs		

Page 34 of 82

Report Reference No.: 083-2500438-000

	IE	EC 62368_1D ATTACHME	ENT	
Clause	Requirement + Test		Result - Remark	Verdict
	needle-flame	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		
	11 Evaluation of test results	the test. 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.		
	The needle-flame test sh parts of material classifie V-0 or V-1 according to A provided that the relevan the sample tested.	all not be carried out on d as S/NZS 60695.11.10,		
6.202.4	Testing in the event of material If parts, other than enclose the glow wire tests of Clatextinguish within 30 s after glowwire tip, the needle-ff Clause 6.202.3 shall be metallic material which as mm or which are likely to flame during the tests of	sures, do not withstand use 6.202.3, by failure to er the removal of the lame test detailed in nade on all parts of nonce within a distance of 50 be impinged upon by		N/A

Page 35 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	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.		
6.202.5	Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause 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. Conformance 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		N/A

Page 36 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1D ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	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
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		N/A

Page 37 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canad	da	CA
1DV.1	Battery backup systems that are not an integral part of stationary equipment, such as provided in separate cabinets, are subject to the appropriate standard for battery backup systems, such as UL 1973, Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications.	N/A
1DV.2	For equipment intended for outdoor installation, additional requirements for Information and communication technology equipment are covered by CSA/UL 60950-22 and for Audio/video equipment are covered by the relevant requirements in CSA C22.2 No. 60065 or UL 60065.	N/A
1DV.3.1	Standard is applicable to equipment designed to be installed in accordance with the Canadian Electrical Code, Part I, C22.1-12; Canadian Electrical Code, Part II, General Requirements, CAN/CSA C22.2 No. 0-10; the National Electrical Code, NFPA 70-2014; and the National Electrical Safety Code, IEEE C2-2012.	N/A
1DV.3.2	For equipment designed to be installed in accordance with Article 645 of the National Electrical Code, NFPA 70-2014, and the Standard for the Protection of Information Technology Equipment, NFPA 75-2013, identification by a marking or instruction [see Annex DVK (Annex DVA, Clause 1)] is required.	N/A
1DV.3.3	Additional regulatory requirements that apply to this equipment per Annex DVA, as applicable.	N/A
1DV.4.1	Additional requirements for equipment used for entertainment purposes intended for installation in general patient care areas of health care facilities per Annex DVB.	N/A
1DV.4.2	This standard includes additional requirements for equipment intended for mounting under kitchen cabinets. See Annex DVC.	N/A
1DV.4.3	This standard does not apply to equipment having Remote Feeding Telecommunication (RFT) circuits. Equipment having RFT circuits is covered by CSA/UL 60950-21.	N/A
1DV.4.4	Additional requirements may apply to large data storage equipment. Refer to CSA/UL 60950-23.	N/A
1DV.4.5	Does not cover Modular Data Centers (MDCs) but only the information and communication technology equipment contained within.	N/A

Page 38 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canad	a	CA
1DV.5.1	Power Distribution Equipment and Sub- Assemblies	N/A
1DV.5.1.1	Power distribution sub-assemblies connected to a mains used to distribute power entirely within a system of equipment, such as power distribution units (PDUs), cord-connected power strips, shelves with multiple power outlets (receptacles) etc., and intended to be installed in system racks, cabinets, home entertainment centers, etc. are covered by this standard	N/A
1DV.5.1.2	For equipment covered by this standard that incorporates components and sub-assemblies that perform a power distribution and control function covered by other standards, such as panelboards, load transfer equipment, or uninterruptible power systems utilized in power conditioners and computer power centers, this standard only may be used for investigation of safety for those aspects not covered by the other standards.	N/A
1DV.5.1.3	This standard also does not apply to stand- alone equipment used for distribution of mains power that is covered by individual power distribution equipment standards.	N/A
1DV.5.1.4	Based on the specific function, the following requirements are applicable to the stand-alone distribution equipment, or apply additionally to power distribution sub-assemblies and components of equipment covered by this standard, as described in 1DV.5.1.2 and 1DV.5.1.3:	N/A
	 For Industrial Control Equipment, see CSA C22.2 No. 14 and UL 508. 	N/A
	For Panelboards, see CSA C22.2 No. 29 and UL 67.	N/A
	- For Switchboards, see CSA C22.2 No 244 and UL 891.	N/A
	- For Transfer Switch Equipment, see CSA C22.2 No 178.1 and UL 1008.	N/A
	- For Uninterruptible Power Systems, see CSA C22.2 No. 107.3 and UL 1778.	N/A
	 For Power Distribution Centers for Communications Equipment, see UL Subject 1801. 	N/A

Page 39 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canada	a	CA
	 Other forms of power distribution units for general applications, such as, Relocatable Power Taps, CSA-C22.2 No. 21, Cord Sets and Power Supply Cords, and UL 1363, Relocatable Power Taps. Cord connected Surge Protective Devices, CSA Technical Information Letter No. A-24, Interim Certification Requirements for AC Line Connected Wiring Devices with Varistors, and UL 1449, Surge Protective Devices. Furniture Power Distribution Units, CSA-C22.2 No. 21, Cord Sets and Power Supply Cords and UL 962A, Furniture Power Distribution Units. 	
3.3.1.2DV D2	For additional information regarding low voltage d.c. mains (centralized d.c. power systems) equipment, refer to Annex DVD. This standard covers high voltage d.c. mains up to 600 Vdc.	N/A
3.3.1.3DV.	New definition: telecommunication network — metallically terminated transmission medium intended for communication between equipment that may be located in separate buildings, excluding: — the mains system for supply, transmission and distribution of electrical power, if used as a telecommunication transmission medium; — cable distribution systems; — ES1 circuits connecting units of audio/video, information and communication technology equipment.	N/A
4.1.1DV.1 D2	In the U.S. and Canada, components and subassemblies that comply with the standards referenced in Annex DVE are required in addition to or as a replacement for the requirements in this standard. Components complying with these standards are considered acceptable as part of equipment covered by this standard without further evaluation other than to give consideration to the appropriate use of the component or subassembly in the end product.	N/A
4.1.1DV.2 DC	In the U.S. and Canada, components and subassemblies that comply with the standards referenced in Annex DVG are acceptable as an alternative to requirements as part of equipment covered by this standard without further evaluation other than to give consideration to the appropriate use of the component or subassembly in the end product.	N/A

Page 40 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canad	da	CA
4.1.2DV DC	In the U.S. and Canada, some UL/CSA component standards may be used as alternatives to referenced IEC standards for the purposes of North America certifications or surveillance programs. Components and subassemblies that comply with the standards referenced in Annex DVF are acceptable as part of equipment covered by this standard without further evaluation other than to give consideration to the appropriate use of the component or subassembly in the end product.	N/A
4.1.16DV.		N/A
4.1.16DV. .1 DE, 4.1.16DV. .2 DR	Pluggable (Cord Connected) Equipment (Canadian and U.S. regulatory-	N/A
4.1.16DV. .3 D2, 4.1.16DV. .4 DR	Equipment. (Canadian and U.S. regulatory-	N/A
4.1.17DV.	1 External interconnecting cable and wiring	N/A
4.1.17DV. [,] .1	External interconnecting cable and wiring are investigated to the requirements of 6.5 and either 4.1.17DV.1.2 or 4.1.17DV.1.3, as appropriate.	N/A
	- External interconnecting cable and wiring 3,05 m or less may be investigated as part of the equipment (system) to the requirements of this standard. See 4.1.17DV.1.2.	N/A
	- External interconnect cable and wiring longer than 3,05 m are regulated by the Canadian Electrical Code, C22.1, and the National Electrical Code, NFPA 70, and are subject to associated requirements. See 4.1.17DV.1.3.	N/A
	- External interconnect cable longer than 3,05 m designed to carry audio and/or video signals only, and that is not specified by the manufacturer to be routed inside the building structure (e.g., walls, ceilings, etc.), is subject to the applicable requirements of 4.1.17DV.1.2. For purposes of 4.1.17DV.1.2, it is assumed such cables are connected to PS1 circuits.	N/A
	Alternatively, detachable external interconnecting cable and wiring (with terminations) may be excluded from the equipment evaluation if specified by the manufacturer.	N/A
4.1.17DV. <i>1</i> .2	1 Equipment (system) interconnecting cable and wiring	N/A

Page 41 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canada	CA	
4.1.17DV.1 .2	The following requirements apply to detachable and nondetachable external interconnecting cable and wiring investigated as part of the	N/A
	equipment (system). - The length of the external interconnecting cable or wiring shall not exceed 3,05 m;	N/A
	- For external interconnecting cable and wiring connected to PS2 and PS3 circuits, see 6.5 for fire (flammability) considerations;	N/A
	- There are no fire (flammability) considerations for external interconnecting cable and wiring specified by the manufacturer for connection to circuits that are PS1.	N/A
	- External interconnecting cable and wiring intended to be connected to an ES3 or PS3 circuit require a jacket for mechanical protection in accordance with Table G.7ADV.2, or equivalent;	N/A
	- Detachable external interconnecting cable and wiring (with terminations) intended to be connected to a PS2, PS3, ES2 or ES3 circuit and furnished as part of the equipment shall be either marked, or similarly identified in the installation instructions with (a) the name, trademark or trade name of the organization that is responsible for the equipment, and (b) the organization's identifying number or equivalent designation for the cable. See Annex DVK. - The marking may be applied on the cable and wiring at any location - This marking is not required to comply with the test for permanence of markings, F.3.9	N/A
	Optical fiber interconnecting cables 3,05 m or less are not subject to the above requirements	N/A
4.1.17DV.1 3	External interconnecting cable and wiring considered part of the building installation.	N/A
4.1.17DV.1 .3	External interconnecting cables and wiring longer than 3,05 m are regulated by the Canadian Electrical Code, C22.1, and the National Electrical Code, NFPA 70. See Annex DVA(Annex Q entry).	N/A

Page 42 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

CA Canada	1	CA
4.6.2DV D2	Additional examples of compliance: - wire-wrap terminals used for the connection of ES1 and ES2 that are: • provided on equipment that forms part of the telecommunication network, up to and including the demarcation point, and are located in service access areas only. (This equipment is generally considered Central Office Equipment, although it may be deployed elsewhere in similarly controlled environments.) and • provided with a guard or cover that prevents unintentional contact during normal operation. are tested with a steady force of 2,5 N ± 0,25 N.	N/A
4.8.3DV D2		N/A
4.8.4.5DV D2	0,5 J impact test deleted.	N/A
4.8.5DV.1 D2	Replace 30 N battery compartment door/cover test with 45 N	N/A
4.8.5DV.2 D2	Additional compliance criteria replaced with: - the battery compartment door/cover shall not open; and - the battery shall not become accessible.	N/A
5.4.4.1DV D1	For printed boards, see Clause G.13	N/A
5.4.4.1DV D1	For antenna terminals, see Clause 5.4.5	N/A
5.4.4.1DV D1	For solid insulation on internal and external wiring, see Clause G.6.	N/A
5.4.4.1DV D1	Additionally, for internal wiring accessible to an ordinary person, see Clause 5.4.6.	N/A
5.6.3DV.1 DR to 5.6.3DV.3 DR	Protective earthing conductors shall 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
5.6.4.1DV DR	Minimum conductor size alternative compliance to Table G.5 or Table G.7ADV.1 as applicable, or Table 31 Minimum protective bonding conductor size of copper conductors	N/A

Page 43 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

CA Canada	a	CA
5.6.4.4DV DR	Protective bonding conductor sizes alternative compliance to Table G.7ADV.1 in addition to Table 31 or Table G.5	N/A
Table 32 DV DR	Include alternative conductor size compliance with Table G.7ADV.1 in the first column heading for protective conductor terminals.	N/A
5.6.6.1 DV DR	Protective bonding conductors that meet the minimum conductor sizes in Table G.5 or Table G.7ADV.1 as applicable, throughout their length and whose terminals all meet the minimum sizes in Table 32 are considered to comply without test.	N/A
5.7.6.2DV DE	Clause title modified to read "Prospective touch voltage and touch current to external circuits"	N/A
5.7.7DV.1 D2	Clause 5.7.7 to apply to stationary pluggable equipment type A or pluggable equipment type B	N/A
5.7.7DV.2 D2	Summation of touch currents not exceeding the limits of ES2 exception per Clause 5.7.7(a)(1)	N/A
5.7.7DV.3 D2	Clause 5.7.7(a)(2) replaced with: Such equipment shall comply with Clause 5.7.5. The value of S(I1) shall be added to the measured protective conductor current to determine compliance with the 5 % input current limit per phase specified in Clause 5.7.5.	N/A

Page 44 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

CA Canad	la	CA
5.7.7.1DV D2	Limitation of touch current due to ringing signals Equipment containing input telecommunication network leads over which ringing voltages are applied to the equipment shall be tested using the circuit of Figure 5.7.7.1DV.1 for mains-connected equipment or Figure 5.7.7.1DV.2 for other equipment. For any position of the selector switches, the total touch current including consideration of 5.7.7 shall not exceed the relevant limits for ES2 specified in Table 4, unless the equipment complies with 5.7.7(a) with the protective conductor current due to ringing signal taken into account. An EUT that receives ringing voltages on up to three telecommunication network connection ports shall have simulated ringing applied to each network connection. For four or more ports receiving ringing, simulated ringing shall be applied to three ports and an additional 3 % (rounding down) of the remaining ports. Compliance is checked by the following tests, which are conducted using the measuring network described in IEC 60990, Figure 4. Simulated ringing at 120 V, 50 to 60 Hz, shall be applied to ringing input telecommunication network leads, either one lead at a time or connected together. Other telecommunication network leads shall be left disconnected. Equipment shall be evaluated in each operating state, including ground start. The general test methods of 5.7 shall apply, checking touch current for all positions of switches S1, S2, and S3 in Figure 5.7.7.1DV.1. In case the total touch current exceeds the ES2 limits, the protective conductor current is measured using the test set up of Figure 5.7.7.1DV.1 or Figure 5.7.7.1DV.2 with the measuring instrument replaced with an ammeter having	N/A
6.5.1DV.1 DC	negligible impedance. Add the following text to the end of the second, third and fourth paragraphs: or the insulation of the conductor or cable	N/A

Page 45 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canad	a		CA
6.5.1DV.2 D2	Add the following after the third paragraph: PS3 wiring outside a fire enclosure shall comply with single fault testing in B.4. Alternatively, the following constructions are considered to comply: — conductors provided with overcurrent protection in accordance with Article 240 of the National Electrical Code, NFPA 70, and the Canadian Electrical Code, Part I, C22.1, Section 14; — internal conductors supplied by a power source that is limited to the output voltage and current values specified in Table Q.1 or is limited to the output voltage values and provided with an overcurrent protective device with a rated current value as specified in Table Q.2; — interconnecting cables supplied by a limited power source (see Q.1); — a 20-A protective device used with any size wire in the primary.		N/A
6.7DV.1	Safeguards against electrically-caused fire due to overvoltage from power line crosses		N/A
6.7DV.1.1	Equipment with external circuits intended for connection to a telecommunication network that uses outside cable subject to overvoltage from power line failures shall comply with Annex DVI.		N/A
10.6.1DV D2	For telecommunication-network connected equipment, see Annex DVJ.		N/A
F.1DV DR	F.1DV.1 See Annex DVK for U.S. and Canadian markings and instructions.	Shall be evaluated during national approval	N/A
F.3.3.9DV. 1	Equipment with output terminals Output terminals provided for supply of other equipment except mains supply shall be marked with the nominal output voltage and frequency, and, in addition, the maximum output current or power, unless the terminals are marked with the type references of the equipment which are permitted to be connected. When intended to be installed or interconnected in the field by a skilled person, the Class of wiring shall be marked adjacent to the terminals.	Shall be evaluated during national approval	N/A
G.4.3DV D2	Delete the 2nd sentence reference to "banana plug" of the EXAMPLE.		N/A
G.7.2DV DR	In the second paragraph, replace the reference to Table G.4 with a reference to Table G.7ADV.1.		N/A
G.7ADV DR	Additional requirements: Power supply cords – detachable and non-detachable		N/A

Page 46 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

CA Canad	a	CA
G.7ADV.1	General Flexible cords and plugs are permitted for movable equipment, hand-held equipment, stationary equipment and transportable equipment, and for fixed equipment where the fastening means and mechanical connections of the equipment are designed to permit removal for maintenance and repair.	N/A
G.7ADV.2	Methods of connection Flexible cords shall be provided with an attachment plug for connection to the branch circuit.	N/A
G.7ADV.3	Sizing and ratings The attachment plug configuration shall be one that is rated not less than 125 percent of the current rating of the equipment.	N/A
G.7ADV.3	Power supply cords shall have conductors with cross-sectional areas sufficient for the rated current of the equipment. Conductors shall be sized based on the requirements in the National Electrical Code (NEC), NFPA 70, and the Canadian Electrical Code, Part I, C22.1.	N/A
G.7ADV.3	Table G.7ADV.1 provides allowable ampacity for flexible cords and cables based on Table 400.5(a)(1) of the NEC. See Table 400.5(a)(2) of the NEC for ampacity information on portable power cables.	N/A
G.7ADV.3	For equipment with a rated current up to and including 2 A, 20 AWG is acceptable provided that the mains plug is provided with a 2 A fuse maximum and the equipment is not provided with a socket outlet.	N/A
G.7ADV.4	Serviceability Power supply cords and cord sets shall incorporate flexible cords suitable for the particular application or shall be of a type at least as serviceable for the particular application. Table G.7ADV.2 lists common applications and associated suitable cord types.	N/A
G.7ADV.5. 1	Minimum length The minimum length of a power supply cord shall be 1,5 m unless it is intended for a special installation, such as dedicated equipment intended to be mounted near a mains socket- outlet.	N/A
G.7ADV.5. 1	For equipment provided with an external power supply, the minimum length of the power supply cord shall be 0,5 m, provided that the total length of the conductive path from the receptacle to the equipment is 1,5 m or greater.	N/A

Page 47 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

CA Canad	a	CA
G.7ADV.5. 2	Maximum length For equipment intended for installation in ITE Rooms, the length of a power supply cord shall not exceed 4,5 m. For other intended installations, see Table G.7ADV.2.	N/A
H.2DV D2	item a: Continuous ringing signals shall: • be located only in areas where a skilled person has access during servicing; • be so located and guarded that unintentional contact with such parts is unlikely during servicing by a skilled person, or be provided with a marking to warn a skilled person of the presence of continuous ringing signals; and • not become accessible to an ordinary person under single fault conditions.	N/A
H.4DV.1	Other telecommunication signals: Telecommunication signaling systems (e.g., some message waiting systems) using voltages or current, or both, greater than those specified in 5.2.1.1 and 5.2.1.2 shall be permitted if they comply with the following:	N/A
H.4DV.1	- continuous signal: For a signal of duration greater than 5 s, the current through the relevant measuring instrument described in IEC 60990:1999, Figure 4, shall be not greater than 7.1 mA peak a.c., or 30 mA d.c., or the limit shown in Figure H.4DV.1 for combinations of a.c. and d.c., when measured in accordance with 5.7.	N/A
H.4DV.1	- intermittent signal: For a signal of duration less than 5 s, the current through the relevant measuring instrument described in IEC 60990:1999, Figure 4, shall be not greater than the limit specified in Figure H.4DV.2. The signal shall be followed by a quiet interval of at least 1 s before the next intermittent signal. During the quiet interval, either the voltage is less than 56,6 V d.c., or the current measured is less than 0,5 mA.	N/A

Page 48 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

CA Canada	1	CA
M.2.1DV DC	Battery packs with sealed secondary cells and batteries (other than button) containing alkaline or other non-acid electrolyte and used in stationary equipment shall comply with either IEC 62133, UL 2054 or UL 1973. Additionally, such battery packs that rely on solid-state circuits and software controls as safeguards shall comply with either the requirements in UL 1973 for System Safety Analysis (5.7) and Protective Circuit and Controls (5.8), or similar requirements in an appropriate standard for electronic safety-related controls that are suitable for investigation of such protection of secondary cells and batteries.	N/A
P.4.1DV DE	Additional text added to correct for editing error: For metalized coatings, clearances and creepage distances for pollution degree 3 shall be maintained instead of the tests of P.4.2DV.1.	N/A
P.4.2DV DE	Added test requirements text from Clause P.5 as new Clause P.4.2DV DE to correct for editing error.	N/A
P.5DV DE	Added test requirements text from Clause P.5 as new Clause P.4.2DV DE to correct for editing error.	N/A
U.1DV D1	Added test requirements text from Clause P.5 as new Clause P.4.2DV DE to correct for editing error.	N/A
Table W.3DV DE	Modify Table W.3 by replacing the entry for 1.2.8.14 in the first column with the following to correct a typographical error: TNV-3 CIRCUIT TNV CIRCUIT — whose normal operating voltages exceed the limits for an SELV circuit under normal operating conditions and — on which overvoltages from telecommunication networks and cable distribution systems are possible	N/A
Annex DVA	·	N/A
Annex DVB	(normative) Equipment used in health care facilities	N/A
Annex DVC	(normative) Under kitchen cabinet equipment	N/A
Annex DVD	(informative) D.C. powered equipment and centralized d.c. power systems (DC mains)	N/A

Page 49 of 82 Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CA Canada	1		CA
Annex DVE	(normative) UL and CSA component requirements (mandatory)		N/A
Annex DVF	(normative) UL and CSA component requirements (alternative to IEC standards)		N/A
Annex DVG	(normative) UL and CSA component requirements (alternative)		N/A
Annex DVH	(normative) Permanently connected equipment – mains connections		N/A
Annex DVI	(normative) Safeguards against electrically- caused fire due to overvoltage from power line crosses		N/A
Annex DVJ	(normative) Acoustic tests for telecommunications equipment		N/A
Annex DVK	(normative) Canadian and U.S. marking and instructions	Will be evaluated during national approval	N/A

Page 50 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

DK Denr	mark	DK
4.1.15	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."	N/A
5.2.2.2	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
5.6.1	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. Justification:	N/A
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	
5.7.5	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
5.7.6.2	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
G.4.2	To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-	N/A

Page 51 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a Justification: Heavy Current Regulations, Section 6c				

Page 52 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

IT Italy		IT
F.1	Italy The following requirements shall be fulfilled: • The power consumption in Watts (W) shall be indicated on TV receivers and in their instruction for use (Measurement according to	N/A
	EN 60555-2). Note/Nota EN 60555-2 has since been replaced by IEC 60107-1:1997. • TV receivers shall be provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.	
	Marking for controls and terminals shall be in Italian language. Abbreviation and international symbols are allowed provided that they are explained in the instruction for use. The ECC manufacturers are bound to issue a	
	conformity declaration according to the above requirements in the instruction manual. The correct statement for conformity to be written in the instruction manual, shall be: Questo apparecchio è fabbricato nella CEE nel rispetto delle disposizioni del D.M. marzo 1992 ed è in particolare conforme alle prescrizioni dell'art. 1 dello	
	stesso D.M. • The first importers of TV receivers manufactured outside EEC are bound to submit the TV receivers for previous conformity certification to the Italian Post Ministry (PP.TT). The TV receivers shall have on the backcover the certification number in the following form:	
	D.M. 26/03/1992 xxxxx/xxxxx/S or T or pT S for stereo T for Teletext pT for retrofitable teletext Justification:	
	Ministerial Decree of 26 March 1992 : National rules for television receivers trade. NOTE/NOTA: Ministerial decree above contains additional, but not safety relevant requirements	

Page 53 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

		JP
Add the following new note after Note 2 to entry.		N/A
Note 3 to entry: See 3.3.15.4A for class I equipment, when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended.		
Add the following new clause after 3.3.15.4.		N/A
3.3.15.4A Class 0I equipment Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by using basic insulation and providing the protective earthing terminal or earthing lead wire in order to connect accessible conductive parts to the protective earthing conductor in the building wiring as supplementary safeguard. The above includes the equipment provided with, or recommend user to use the accessory of 2-pin plug adaptor with protective earthing lead wire that adapts class I (earthed) plug into 2-pin plug or power supply cord set having 2-pin plug with earthing lead wire.		
part constructed with Class II.		
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. Add the following Note before Note 1 NOTE 0A Components complying with the interpretation of Ministerial Ordinance on stipulating technical requirements for the		N/A
	Note 3 to entry: See 3.3.15.4A for class I equipment, when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended. Add the following new clause after 3.3.15.4. 3.3.15.4A Class 0I equipment Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by using basic insulation and providing the protective earthing terminal or earthing lead wire in order to connect accessible conductive parts to the protective earthing conductor in the building wiring as supplementary safeguard. The above includes the equipment provided with, or recommend user to use the accessory of 2-pin plug adaptor with protective earthing lead wire that adapts class I (earthed) plug into 2-pin plug or power supply cord set having 2-pin plug with earthing lead wire. Note 1 to entry: Class 0I equipment may have a part constructed with Class II. Modify the first paragraph as follows: 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. Add the following Note before Note 1 NOTE 0A Components complying with the interpretation of Ministerial Ordinance on	Note 3 to entry: See 3.3.15.4A for class I equipment, when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended. Add the following new clause after 3.3.15.4. 3.3.15.4A Class 0I equipment Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by using basic insulation and providing the protective earthing terminal or earthing lead wire in order to connect accessible conductive parts to the protective earthing conductor in the building wiring as supplementary safeguard. The above includes the equipment provided with, or recommend user to use the accessory of 2-pin plug adaptor with protective earthing lead wire that adapts class I (earthed) plug into 2-pin plug or power supply cord set having 2-pin plug with earthing lead wire. Note 1 to entry: Class 0I equipment may have a part constructed with Class II. Modify the first paragraph as follows: 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. Add the following Note before Note 1 NOTE 0A Components complying with the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have

Page 54 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

JP Japan	C.	JP
4.1.3	Add the following Note before the compliance statement:	N/A
	NOTE Considering the wiring circumstance in Japan, transportable or similar type of equipment that is frequently moved for intended usage, or equipment intended to be installed where the	
	provision for earthing connection is unlikely should not be designed as class I or class 0I equipment unless it is intended to be installed by skilled persons or instructed persons.	
5.4.1.4.3	Add the following as a note to Table 10: NOTE In case no data for the material is available, Appendix 4, 1.(1).b. 3 of the Interpretation on the Ministerial Ordinance stipulating Technical Specifications for Electrical Appliances is regarded as maximum temperature limit of the material.	N/A
5.4.9.2	Add the following text to the NOTE: Alternatively, routine test in production-line may be in accordance with 5.2 (electric strength test) of IEC 62911.	N/A
5.6.1	Add the following: 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	Add the following to the third paragraph: Mains connection of class 0I equipment provided with instructional safeguard in accordance with Clause F.3.6.1A is considered to meet this requirement.	N/A
	Add the following at the end of the subclause: Mains plug having a lead wire for protective earthing connection of class 0l equipment shall comply with all of the following: Not to be used for equipment having a rated voltage of 150 V or more The lead wire for earthing is not connected to the earth by means of clip The lead wire for earthing is at least 10 cm long	
	If class 0I equipment provides an independent main protective earthing terminal and is intended to be installed by ordinary person, earthing wire shall be provided within the package for the equipment.	

Page 55 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

JP Japan	1	JP
5.6.2.2	Add the following after the first sentence.	N/A
	However, 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.	
5.6.3	Add the following after NOTE 2.	N/A
	In addition, for class 0I equipment using power	
	supply cord having two conductors (no earthing	
	conductor), the conductor of protective earthing	
	lead wire shall also comply with either of the	
	following:	
	 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	
	with 1.25 mm² or more cross-sectional area	
	Replace NOTE 3 with the following	
	NOTE 3 Heavy duty is defined in IEC 62440.	
5.6.4.2.1	Add NOTE 4 as follows:	N/A
	NOTE 4 In Japan, 20 A is widely used as	
	protective current rating for mains circuit in case	
	of mains outlet rated 20 A or less.	
5.7.3	Change present NOTE to NOTE 1, and add the	N/A
	following paragraph after the NOTE 1:	
	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.	
	connection to the mains.	
	NOTE 2 Limits for class 0I equipment is specified	
	in 5.7.4	
	NOTE 3 It is regarded as being in compliance	
	with the relevant regulations if a connector	
	complies with Appendix 4 of the interpretation of	
	Ministerial Ordinance on stipulating technical	
	requirements for the Electrical Appliances.	

Page 56 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

JP Japan		JP
5.7.4	Add the following paragraph at the end of the first paragraph:	N/A
	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.	
6.4.3.3	Replace the first dash paragraph with following:	N/A
	a fuse complying with JIC C 6575 series or a fuse having equivalent characteristics shall open within 1 s; or	
	NOTE 3 A fuse is considered to have equivalent characteristics to those complying with JIS C 6575 series if it complies with appendix 3 of the Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance and Material.	
	Add the following before the last paragraph:	
	A fuse having time/current characteristics other than those specified in IEC 60127 shall be tested with the characteristics taken into account. In case of 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".	
	NOTE 4 The above replacements apply also to fuses having equivalent characteristics to those specified in JIS C 6575 series.	
8.5.4.2.1	Add the following before NOTE 2:	N/A
	However, only stationary equipment that is directly connected to the three-phase supply rated more than 200 V ac can be considered for use in locations where children are not likely to be present, when complying with Clause F.4.	
8.5.4.2.2	Replace the first paragraph with the following:	N/A
	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.	
	Replace the first dash with the following:	
	- element 1a and element 2: IEC 60417-	

Page 57 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

Clause	Requirement + Test Result - Remark		veidici	
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	6057 (2011-05) or (JIS S 0101:2000, 6.2.1) and the following precautions			
	ÿ "The use by infants/children may cause a hazard of injury." or equivalent Example in Japanese:			
	子供が使用することによって、傷害などの危害が発生するおそれがある。			
	Ÿ "A hand can be drawn into the mechanical section for shredding when touching the document-slot." or equivalent Example in Japanese: 文書投入口に手を触れることによって、細断機構に引き込まれるおそれがある。			
	Ÿ "Clothing can be drawn into the mechanical section for shredding when touching the document-slot." or equivalent Example in Japanese: 文書投入口に衣類が触れることによって、細断機構に引き込まれるおそれがある。			
	Ÿ "Hairs can be drawn into the mechanical section for shredding when touching the document-slot." or equivalent Example in Japanese: 文書投入口に髪の毛が触れることによって、細断機構に引き込まれるおそれがある。			
	In case of equipment incorporating a commutator motor: Ÿ "The equipment may catch fire or explode by spraying of flammable gas." or equivalent Example in Japanese: 可燃性ガスを噴射することによって引火又は爆発するおそれがある。			
	Delete the second dash.			
8.5.4.2.4	Replace the first statement with the following:		N/A	
	The media destruction device is tested according to Clause V.1.2 with applicable jointed test probes to the opening. And then, tested with the wedge probe of Figure V.4 applied in any direction relative to the opening:			
8.5.4.2.5	Replace the second sentence in the first paragraph with the following:		N/A	
	The wedge probe of Figure V.4 and applicable jointed test probes specified in Clause V.1.2 shall not contact any moving part.			
	Add the following after the second paragraph:			
	Instructional safeguard shall not substitute an			

Page 58 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

JP Japan			JP
	equipment safeguard for preventing access to hazardous moving parts.		
9.2.6, Table 38	Replace the top row of TS2 in column of "Accessible parts" with the following:		N/A
	Handles, Knobs, grips, etc. and external surfaces either held, touched or worn against the body in normal use (> 1 min) b,c		
Annex F F.3.5.1	Add the following after the second paragraph.		N/A
	Class 0I equipment shall be provided with an instructional safeguard 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.		
	NOTE Appendix 4 of the Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is an example of the relevant regulation.		
	The elements of the instructional safeguard shall be as follows: - element 1a: not applicable - element 2: "Only for (equipment name)" or equivalent text Example in Japanese: (equipment name)専用コンセント		
	- element 4: "This socket-outlet is for use only with (manufacturer's name), (model number or series), (equipment name)" or equivalent text Example in Japanese: このコンセントは, (manufacturer's name), (model number or series), (equipment name)だけが接続することを意図しています。		
	 element 3: "Use with other equipment may result in electric shock" or equivalent text Example in Japanese: その他の機器を接続すると感電の危険があります。 		
	The elements shall be in the order 2, 4, and 3. The element 2 shall be marked adjacent to the mains socket-outlet. The rated voltage and assigned current or power		

Page 59 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

JP Japan		JP
	of a mains socket-outlet need not be marked on the equipment provided with this instructional safeguard.	
Annex F F.3.5.3	Replace the third dashed paragraph with the following.	N/A
	if the fuse is necessary for the safeguard function, the symbols indicating pre-arcing time-current characteristic.	
	Example F: Fast blow T: Time-delay (A): Class A (B): Class B	
Annex F F.3.6.1A	Add the following new clause after F.3.6.1.3.	N/A
F.3.0. IA	F.3.6.1A Marking for class 0I equipment The requirements of Clauses F.3.6.1.1 and F.3.6.1.3 also apply to class 0I equipment. For class 0I equipment, the following or equivalent instructions shall be marked on the mains plug or on the visible place of the main body.	
	"Provide an earthing connection" Example in Japanese: "必ず接地接続を行ってください。"	
	In addition to the above, for class 0I equipment, the following instructional safeguard shall be marked on the visible place of the main body or shall be in the text of an accompanying document.	
	"Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains." Example in Japanese: 接地接続とが、電源プラグを電源につなく前に行ってください。 また、接地接続を外す場合は、必ず電源プラグを電源から切り離してから行ってください。	
Annex F F.3.6.2.1	Replace the third paragraph with the following:	N/A
	The above symbols shall not be used for class I equipment or class 0I equipment.	
Annex F F.4	Replace the fourth dashed paragraph with the following:	N/A
	For audio equipment with terminals classified as ES3 in accordance	

Page 60 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

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	with Table E.1, and for other equipment with terminals marked in accordance with F.3.6.1 and F.3.6.1A, the instructions shall require that the external wiring connected to these terminals shall be installed by a skilled person, or shall be connected by means of ready-made leads or cords that are constructed in a way that would prevent contact with any ES3 circuit. Add the following after the ninth dashed paragraph. - For class 0I equipment provided with independent main protective earthing terminal, where the cord for the protective earthing connection is not provided within the package for the equipment, if the protective earthing connection is made by instructed person or skilled person, the suitable installation instruction for the protective earthing connection shall be		
Annex G G.3.2.1	provided. Replace the paragraph a) with the following. a) 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
	NOTE Thermal links complying with appendix 3 of the Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance and Material are considered to have equivalent or better properties.		
Annex G G.3.4	Replace the first paragraph by the following. Except for devices covered by Clause G.3.5, overcurrent protective devices used as a safeguard shall comply with the relevant JIS harmonizing with IEC standard, or shall have equivalent or better properties. If there are no applicable JIS, they shall comply with relevant IEC standard.		N/A
Annex G G.4.1	NOTE Fuses complying with appendix 3, or circuit breakers or residual current circuit breakers complying with appendix 4 of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance and Material are considered to have equivalent or better properties. Add the following sentence at the end of this clause.		N/A

Page 61 of 82 Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Clause Requirement + Test Result - Remark Verdic			

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	This requirement is not applicable to Clauses G.4.2 and G.4.2A.		
Annex G G.4.2	Replace with the following.		N/A
G.4.2	G.4.2 Mains connectors (including mains plug and socket-outlet) 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 properties. NOTE Mains plug complying with appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent or better properties.		
	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. Equipment shall be constructed so that mechanical stress does not transmit to the soldering part of inlet terminal during insertion or removal of the connector. Construction that the body of the inlet is secured and the securement not relied on soldering only is considered to comply.		
	When an equipment is rated not more than 125 V and complies with all the following requirements, Type C14 and C18 appliance coupler complying with JIS C 8283 series can be considered as rated 15 A - The temperature of appliance coupler does not exceed the value specified in JIS C 8283-1 under the most unfavorable normal operating condition. - " Use only designated cord set attached in this equipment " or equivalent text is described in the operating instruction. If the cord set is not provided within the package for the equipment, suitable information regarding to the cord set is described in the operating instruction. Example in Japanese: "この機器に同こ人(郷)した指定の電源コードセットだけを使用して下さい。"		
Annex G G.4.2A	Add the following new clause after G.4.2. G.4.2A Mains socket-outlet and interconnection		N/A
	coupler provided with the equipment The equipment provided with mains socket-outlet		

Page 62 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Clause F	Requirement + Test	Result - Remark	Ve	erdict
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	configured in accordance with JIS C 8282 series, JIS C 8303 or relevant standards or with interconnection coupler configured in accordance with JIS C 8283-2-2 shall comply with the following: Socket-outlet and interconnection coupler provided in class II equipment can connect other class II equipment only. Socket-outlet and interconnection coupler provided in class I equipment can connect other class II equipment only, or is provided with protective earthing pole that is reliably connected to protective earthing terminal or point of the equipment. Interconnection coupler provided in class 0I equipment can connect other class II equipment only. If the all the followings are met, class I equipment can be connected. The interconnection coupler is provided with a protective earthing pole that is reliably connected to the protective earthing pole that is reliably connected to the protective earthing point or terminal of the equipment. Touch current measured according to 5.7.3 as a system of interconnected equipment with one connection to the mains does not exceed the limit for class 0I equipment specified in 5.7.4. Socket-outlet provided in class 0I equipment can connect other class II equipment only. If the socket-outlet is provided for interconnection and the all the followings are met, class I equipment can be connected. Socket-outlet is provided with protective earthing pole that is reliably connected to protective earthing point or terminal of the equipment. Except for socket-outlet which only skilled person can access, instructional safeguard specified in Clause F.3.5.1 is provided so that only equipment intended by the manufacturer is connected. Touch current measured according to 5.7.3 as a system of interconnected equipment with one connection to the mains does not exceed the limited for class 0I equipment specified in 5.7.4. Cord set for interconnection provided within the package for the equipment providing the interconnection coupler complying with JIS C 8283-2-2 complies with JIS C 8286.			

Page 63 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

JP Japan		JP
ог Јарап	mains socket-outlet configured in accordance with JIS C 8282 series, JIS C 8303 or relevant regulation unless it is intended to be installed by skilled person.	JF_
	NOTE 2 Acceptable configuration of relevant regulation refers to appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance.	
Annex G G.4.3	Add following NOTE after EXAMPLE. NOTE The statement, "An example of a connector not meeting the requirements of this subclause is the so called "banana" plug" is deleted from above EXAMPLE.	N/A
Annex G G.7.1	Replace the third dashed paragraph with the following. - other types of cords may be used if they have equivalent electro-mechanical and fire safety properties as above. Add the following after NOTE 3. NOTE 3A Sheathed mains cords complying with appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance are considered to have equivalent or better electro-mechanical and fire safety properties. Add the following after the first sentence in the paragraph after present NOTE 3: However, a mains supply cord need not include the protective earthing conductor.	N/A
Annex G G.7.2	Add the following new NOTE 0A after the first sentence. NOTE 0A The cross-sectional area of mains cords may comply with relevant Japanese wiring regulation if it complies with appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance that is referenced in Clause G.7.1 as having equivalent or better electromechanical and safety	N/A

Page 64 of 82 Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

		JP
properties.		l
Add the following new NOTE 0A to end of this sub-clause.		N/A
NOTE 0A The cross-sectional area of mains cords may comply with relevant Japanese wiring regulation if it complies with appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance that is referenced in Clause G.7.1 as having equivalent or better electromechanical and safety properties.		
Replace the first dotted paragraph in the first dashed paragraph with the following: Ÿ withstand 1,71 × 1.1 × U ₀ for 5 s. Replace the NOTE 2 with the following. NOTE 2 For different power distribution systems, the temporary overvoltages are defined in Table		N/A
	Add the following new NOTE 0A to end of this sub-clause. NOTE 0A The cross-sectional area of mains cords may comply with relevant Japanese wiring regulation if it complies with appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance that is referenced in Clause G.7.1 as having equivalent or better electromechanical and safety properties. Replace the first dotted paragraph in the first dashed paragraph with the following: ÿ withstand 1,71 × 1.1 × U₀ for 5 s. Replace the NOTE 2 with the following.	Add the following new NOTE 0A to end of this sub-clause. NOTE 0A The cross-sectional area of mains cords may comply with relevant Japanese wiring regulation if it complies with appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance that is referenced in Clause G.7.1 as having equivalent or better electromechanical and safety properties. Replace the first dotted paragraph in the first dashed paragraph with the following: Ÿ withstand 1,71 × 1.1 × U ₀ for 5 s. Replace the NOTE 2 with the following. NOTE 2 For different power distribution systems, the temporary overvoltages are defined in Table

Page 65 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	IEC 62368-1 ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST RE	PORT	
(Au	IEC 62368-1 (JAPAN) NATIONAL DIFFERI dio/video, information and communication technology equ		ents)
Difference	s according to J62368-1 (2020)		
TRF temp	late used: IECEE OD-2020-F3, Ed. 1	.1	
Attachme	nt Form No JP_ND_IEC62368_1B		
Attachme	nt Originator: UL (JP)		
Master Att	achment Date 2020-11-06		
	© 2020 IEC System for Conformity Testing and Cert witzerland. All rights reserved.	ification of Electrical Equipmer	nt (IECEE)
	National Differences		3/4
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.		Р
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

Page 66 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	IEC 62368-1 ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
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: – 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		N/A
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 JIC 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 to the opening. And then the wedge probe per Figure V.4 shall not contact any moving part.		N/A

Page 67 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

	IEC 62368-1 ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
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 connection is not provided within the package for the equipment.		N/A
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

Page 68 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	IEC 62368-1 ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
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 equipment provided with independent protective earthing conductor.		N/A
G.8.3.3	Withstand 1,71 \times 1.1 \times U ₀ for 5 s.		N/A

Page 69 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

SE Swe	eden	SE
4.1.15	Denmark, Finland, Norway and Sweden	N/A
	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 socketoutlet.	
	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"	

Page 70 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	•		
SE Swed	den		SE
5.4.11.1	Finland and Sweden	I	
And	To the end of the subclause the following is		N/A
Annex G	added:		
/ IIIIOX O	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 1,5 kV.		
	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 an all the test appairance as described in EN.		
	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.		
5.5.6	Finland, Norway and Sweden		h1/*
0.0.0	To the end of the subclause the following is added:		N/A
	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.		

Page 71 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

SE Swe	eden		SE
5.7.6.1	Norway and Sweden		N/A
	To the end of the subclause the following is added:		IN/A
	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 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	l l	
	är kopplad till kabel-TV nät kan i vissa fall medfőra risk	l l	
	főr brand. Főr att undvika detta skall vid anslutning av	l l	
	apparaten till kabel-TV nät galvanisk isolator finnas	l l	
	mellan apparaten och kabel-TV nätet.".		

Page 72 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

US Unite	ed States of America		US
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.	Shall be evaluated during national approval	N/A
1.4	Additional requirements apply to some forms of power distribution equipment, including subassemblies.		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
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

Page 73 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

US Unit	ed States of America	US
	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 m³ (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
	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.	N/A
Annex DVA (6.3)	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30.	N/A

Page 74 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

US Unite	ed States of America	US
Annex DVA (6.4.8)	For ITE room applications, enclosures with combustible material measuring greater than 0.9 m² (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
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

Page 75 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

US Unite	ed States of America	US
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 1are 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.	N/A
Annex DVH	Equipment for permanent connection to the mains supply is subjected to additional requirements.	N/A
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

Page 76 of 82

Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

US Unite	ed States of America	US
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

Page 77 of 82 Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	IEC62368_1D ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict		
	Α٦	TACHMENT TO TEST R	EPORT			
(Audi		IEC 62368-1 ID CANADA NATIONAL I Imunication technology eq	DIFFERENCES juipment – Part 1: Safety requirem	ients)		
Difference	s according to:	CSA/UL 62368-1:2014				
TRF templ	late used::	IECEE OD-2020-F3, Ed	l. 1.1			
Attachmer	nt Form No:	US_CA_ND_IEC62368	_1D			
Attachmer	Attachment Originator: UL(US)					
Master Attachment: Dated 2021-02-04						
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;	IEC 62368-1 - US and Canada 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.	Shall be evaluated during national approval	N/A		
1.4	Additional requirements apply to some forms of power distribution equipment, including subassemblies.		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		

Page 78 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

	IEC62368_1D ATTACHN	IENI	
Clause	Requirement + Test	Result - Remark	Verdict
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
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	Output terminals provided for supply of other		N/A
(F.3.3.8)	equipment, except mains, supply are marked with a maximum rating or references to which equipment it is permitted to be connected.		
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

Page 79 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		

	IEC62368_1D ATTACHN		
Clause	Requirement + Test	Result - Remark	Verdict
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 m³ (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
	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.		N/A
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 m² (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

Page 80 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

	IEC62368_1D ATTACHM	1ENT	
Clause	Requirement + Test	Result - Remark	Verdict
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 operatoraccessible unless it is non-interchangeable.		N/A
Annex DVA (G.5.3)	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.		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

Page 81 of 82

Report Reference No.: 083-2500438-000

	IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	IEC62368_1D ATTACHM	IENT	
Clause	Requirement + Test	Result - Remark	Verdict
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.		N/A
Annex DVH	Equipment for permanent connection to the mains supply is subjected to additional requirements.		N/A
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 mm²).		N/A

Page 82 of 82

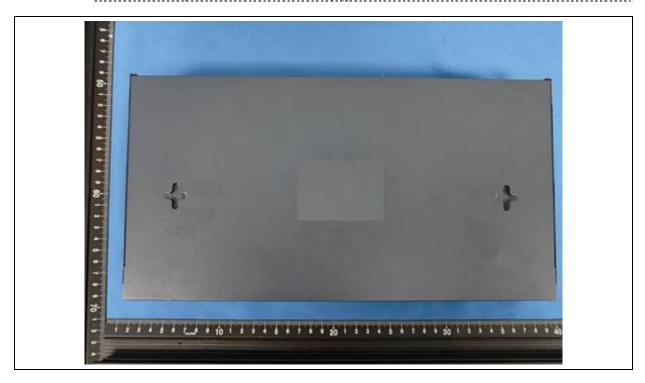
Report Reference No.: 083-2500438-000

IEC 62368_1B ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

IEC62368_1D ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
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		

Page 1 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: General view (Model: DS-3E0318P-E/M(C))



Details of: General view (Model: DS-3E0318P-E/M(C))



Page 2 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: General view (Model: DS-3E0318P-E/M(C))

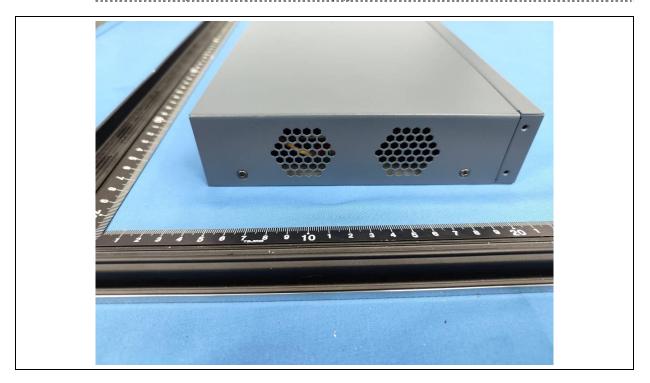


Details of: General view (Model: DS-3E0318P-E/M(C))



Page 3 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: General view (Model: DS-3E0318P-E/M(C))



Details of: General view (Model: DS-3E0318P-E/M(C))

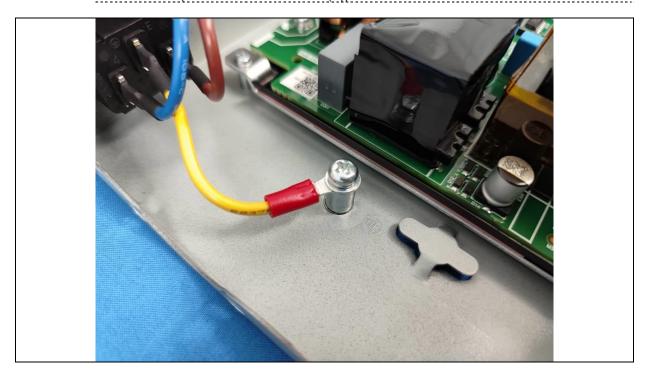


Page 4 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: Internal view (Model: DS-3E0318P-E/M(C))



Details of: Internal view (Model: DS-3E0318P-E/M(C))



Page 5 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: Internal view (Model: DS-3E0318P-E/M(C))

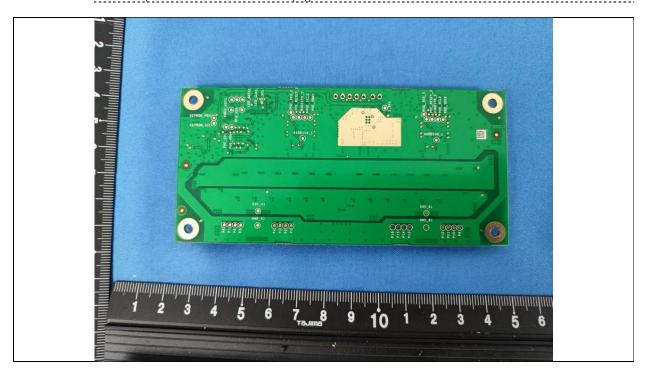


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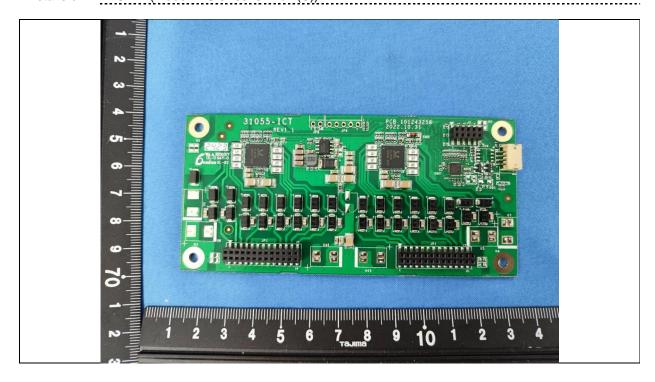


Page 6 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: PCB-1 (Model: DS-3E0318P-E/M(C))

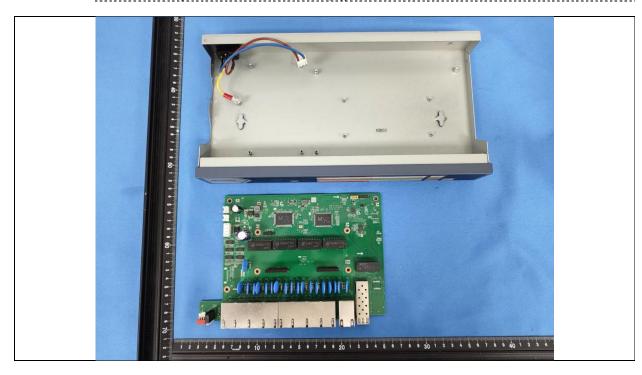


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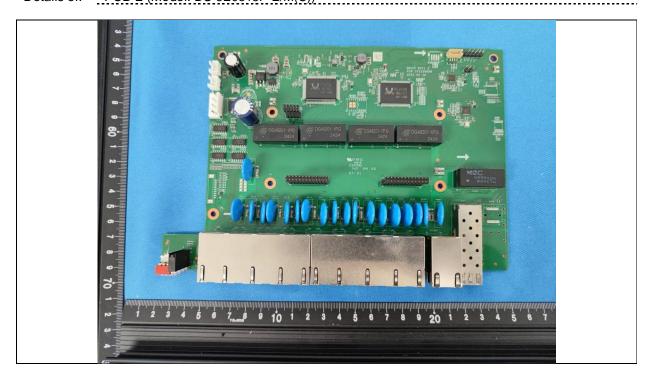


Page 7 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Photographs
Details of: Internal view (Model: DS-3E0318P-E/M(C))

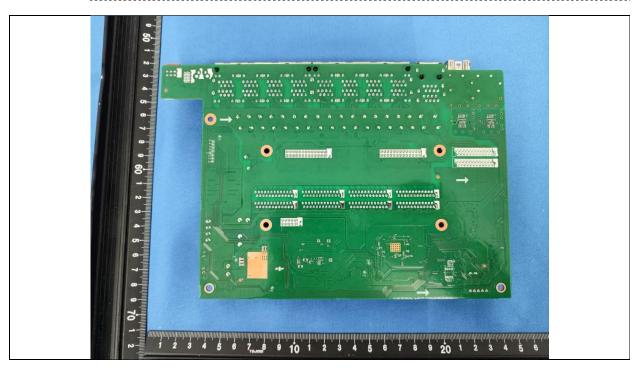


Details of: PCB-2 (Model: DS-3E0318P-E/M(C))

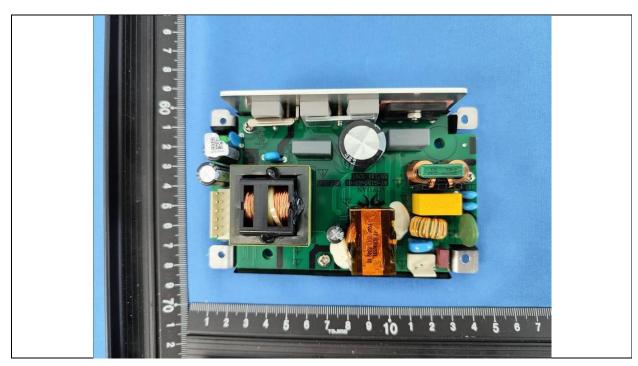


Page 8 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: PCB-2 (Model: DS-3E0318P-E/M(C))

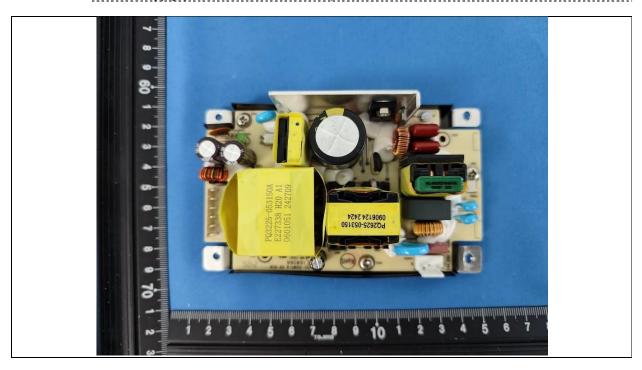


Details of: Power supply (Model: AY-G150-53)



Page 9 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: Power supply (Model: ADO-150W1-A 53)



Details of: Power supply (Model: PoE-150W53-NP1)



Page 10 of 10 Report No.: 083-2500438-000 Attachment No.3 Photographs

Details of: Plug with Power supply (Model: DS-3E0318P-E/M(C))



Details of: Connector (Model: DS-3E0318P-E/M(C))

