LVD TEST REPORT

EN IEC 62368-1:2020+A11:2020

Audio/Video, information and communication technology equipment -

Part 1: Safety requirements

For

INVT Network Power (Shenzhen) Co.,Ltd.

Room 601, Building 1, INVT Guangming Technology Building, Shutianpu Community, Matian Street, Guangming District, Shenzhen City, Guangdong Province, China

Series model:IS100, IS160

2022-11-30

19 3	iSmart Series Modular Data Center
Y X	
Fan Yang/	7 ay Yang
TH2211351-C02-R01	发展的
2022-11-22 to 2022-1	1-30学在咖啡子用普
Prince Huang/	proce Hunning
Prince Huang/	Prone Huong
Z E	
	Fest Technology Co., Ltd. ilicon Valley Power intelligent terminal
Tel: 86-755-8661510	
	TH2211351-C02-R01 2022-11-22 to 2022-1 Prince Huang/ Prince Huang/ Shenzhen Tian Hai 7 4F, A3 BLDG, The S

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Z. Y. Z	TEST REPORT	
	EN IEC 62368-1:2020+A11:2020	
Report Reference No	TH2211351-C02-R01	
Tested by (signature)	Fan Yang	1
Reviewed by (signature) Approved by (signature)	Prince Huang Prince Huang	8000
Date of issue	100	É,
Testing Laboratory Name	Shenzhen Tian Hai Test Technology Co., Ltd	
The state of the s		
Testing location		
Address	Room 601, Building 1, INVT Guangming Technology Bu Shutianpu Community, Matian Street, Guangming District, She City, Guangdong Province, China	
Test specification		4
Standard	EN IEC 62368-1:2020+A11:2020	13
Test procedure		
Non-standard test method	N/A	
Test item description	iSmart Series Modular Data Center	
Trade mark	INVT	
Model and/or type reference	IS100, IS160	
Manufacturer	INVT Network Power (Shenzhen) Co.,Ltd.	
Address	Room 601, Building 1, INVT Guangming Technology Building,	ZZZ
Audress	Shutianpu Community, Matian Street, Guangming District, Shenzh	nen
Model Difference:	City, Guangdong Province, China	
Model Difference:	They are identical to each other except for product name and mode number	el

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Rating(s).....

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AC 220V,50/60Hz 13.6A-27.27A, 3kW-6kW

TEST ITEM PARTICULARS:	3 1
Classification of use by	
<u> </u>	☐ Instructed person
	☐ Skilled person
	☐ Children likely to be present
Supply Connection	□ AC Mains □ DC Mains
A A A	External Circuit - Not directly connected to mains
	- □ ES1 ⊠ES2 □ES3
Supply % Tolerance	<u>+10%/-10%</u>
4	+20%/-15%
47	+25%/-15%
5 5 5	None
Supply Connection – Type	□ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable equipment type A - □ pluggable
Z Z Z	☐ non-detachable supply cord
	appliance coupler
T. T.	direct plug-in
	mating connector
),5	pluggable equipment type B -
	non-detachable supply cord
W J W	appliance coupler
	permanent connection
	mating connector
	other:
Considered current rating of protective device as part	Installation location: building; equipment
of building or equipment installation	4 5 4 5
Equipment mobility	movable hand-held transportable
	stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC)	OVC I SOVC II OVC III
	OVC IV other:
Class of equipment	☐ Class II ☐ Class III
Access location	□ operator accessible □
5	restricted access location
4 4	□ N/A
Pollution degree (PD)	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40 °C
IP protection class	☐ IPX0 ⊠ IP5X
Power Systems	⊠ TN □ TT □ IT
Altitude during operation (m)	
Altitude of test laboratory (m)	□ 2000 m or less ⊠ 500 m
Mass of equipment (kg)	⊠kg

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POSSIBLE TEST CASE VERDICTS:

Test case does not apply to the test object: N/A(Not applicable)

Test item does meet the requirement: P(Pass)
Test item does not meet the requirement: F(Fail)

GENERAL PRODUCT INFORMATION:

Product Description -

1. iSmart Series Modular Data Center which is intended to be used for audio/video, information and communication technology Equipments

Copy of Marking Plate:

See on the product.

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)

Source of electrical energy	Corresponding classification (ES)
All circuits except for output circuits	ES3
Output	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
All circuits except for output circuits	PS3, Arching and Resistive PIS
Output	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	4 4

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/mechanic	al energy	Corresponding cla	assification (MS)	Z
N/A	7 7	N/A	,5	· A

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	7,	Corresponding classification (TS)
Enclosure (plastic)		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 o	f radiation	7	T.	V	Corresponding cl	assification (RS)	T.
N/A	N.	E.	Z.	7,	74	7,	7

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	ENE	ERGY SOURCE DIAGR	AM	
Indicate which energy s	ources are included in	the energy source diagram.	Insert diagram below	
			A SE	HA
Input	ANT IN	THE T	F. A.	
ES3, PS3	,5	Internal circuit: E	S3, PS3	5
Will The State of	TO MAN	THE	A LAND LAND LAND LAND LAND LAND LAND LAN	A A A A A A A A A A A A A A A A A A A
TA				
<u> </u>	⊠ES	$\boxtimes PS \square MS \square TS$	□RS	
Remark: N/A		STATE OF		A THE STATE OF THE

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Clause	Possible Hazard					
5.1	Electrically-caused injury					
Body Part	Energy Source					
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Safeguards Supplementary	Reinforced (Enclosure)		
Ordinary	ES3: Input ES1: Output	N/A	N/A	N/A		
6.1	Electrically-caused fire	7,	E .			
Material part	Energy Source		Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced		
All combustible materials within equipment	PS3: Input	See 6.3	V-0 See 6.4.6	N/A		
7.1	Injury caused by hazardous su	Injury caused by hazardous substances				
Body Part	Energy Source	Safeguards				
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced		
N/A	N/A	N/A	N/A	N/A		
8.1	Mechanically-caused injury		,			
Body Part	Energy Source	Safeguards	S			
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)		
N/A	19	14	The state of the s	24		
9.1	Thermal Burn	F	2	D C		
Body Part	Energy Source	14,	Safeguards	Z. /		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced		
N/A	N/A	N/A	N/A	N/A		
10.1	Radiation					
Body Part	Energy Source	Energy Source Safeguards				
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced		
N/A	5	41 3	V ,4	, ,		

Supplementary Information:

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

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



Clause	Requirement – Test	Result – Remark	Verdict
	(5)	(S) A	24
4	GENERAL REQUIREMENTS	<i>S</i> 40	P
4.1.1	Acceptance of materials, components and subassemblies	The The Item	P
4.1.2	Use of components	7, 3	P
4.1.3	Equipment design and construction	~	P
4.1.15	Markings and instructions	(See Annex F)	P
4.4.4	Safeguard robustness	19 1 K	P
4.4.4.2	Steady force tests	(See Annex T.3, T.4)	N/A
4.4.4.3	Drop tests		N/A
4.4.4.4	Impact tests	<u> </u>	P
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	The state of the s	N/A
4.4.4.6	Glass Impact tests	5	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	/ P
4.4.4.8	Air comprising a safeguard	(See Annex T)	P
4.4.4.9	Accessibility and safeguard effectiveness	E	P
4.5	Explosion	3	P
4.6	Fixing of conductors	The state of the s	P
4.6.1	Fix conductors not to defeat a safeguard	4	P
4.6.2	10 N force test applied to	See 5.4.2, 5.4.3	P ,4
4.7	Equipment for direct insertion into mains socket -outlets		N/A
4.7.2	Mains plug part complies with the relevant standard.		N/A
4.7.3	Torque (Nm)	A. A	N/A
4.8	Products containing coin/button cell batteries		N/A
4.8.2	Instructional safeguard	15	N/A
4.8.3	Battery Compartment Construction		N/A
J.F.	Means to reduce the possibility of children removing the battery	F. F. F.	N/A
4.8.4	Battery Compartment Mechanical Tests	(See Table 4.8.4)	N/A
4.8.5	Battery Accessibility	F	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	Α.	P
5	ELECTRICALLY-CAUSED INJURY	49	P
5.2.1	Electrical energy source classifications	(See appended table 5.2)	ρ
5.2.2	ES1, ES2 and ES3 limits	The The	P
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	N/A
5.2.2.3	Capacitance limits	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits	(See appended table 5.2)	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
		19	Z
5.2.2.5	Limits for repetitive pulses	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals	(See Annex H)	N/A
5.2.2.7	Audio signals	(See Clause E.1)	N/A
5.3	Protection against electrical energy sources	T. T.	P 2
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	4 .6	P
5.3.2.1	Accessibility to electrical energy sources and safeguards		P
5.3.2.2	Contact requirements	2 K Z	P
7	a) Test with test probe from Annex V	72 12	P
X.	b) Electric strength test potential (V)	F	P
	c) Air gap (mm)	~	Р
5.3.2.4	Terminals for connecting stripped wire	Ś	P
5.4	Insulation materials and requirements	14	△ P
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning	(See sub-clause 5.4.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	P
5.4.1.5	Pollution degree	PD2	P
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	3 5	N/A
5.4.1.7	Insulation in circuits generating starting pulses	17	N/A
5.4.1.8	Determination of working voltage	7	P
5.4.1.9	Insulating surfaces		χP
5.4.1.10	Thermoplastic parts on which conductive metallicparts are directly mounted	20 1	LP P
5.4.1.10.2	Vicat softening temperature	Z 4 Z	P
5.4.1.10.3	Ball pressure	3 5 3	P
5.4.2	Clearances		P
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	P
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	P
5	a) a.c. mains transient voltage	2500Vpeak	
/	b) d.c. mains transient voltage	1 18 8	150
-	c) external circuit transient voltage	1 1 2	<u> </u>
P	d) transient voltage determined by measurement	The The The	1
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	19	19 4	24
5.4.2.5	Multiplication factors for clearances and test voltages	X 2 3	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	P
5.4.3.1	General	7, 3	P
5.4.3.3	Material Group	IIIb	
5.4.4	Solid insulation	4 .5	N/A
5.4.4.2	Minimum distance through insulation	(See appended table 5.4.4.2)	P
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	37 27	N/A
5.4.4.6	Thin sheet material	T. T.	N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material	(See appended Table 5.4.9)	N/A
	Number of layers (pcs)	6 5	% N/A
5.4.4.6.3	Non-separable thin sheet material	14 15	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test	18	N/A
5.4.4.7	Solid insulation in wound components	2	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	(See appended Table 5.4.4.9)	N/A
5.4.5	Antenna terminal insulation	5	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	Z Z	N/A
	Insulation resistance (M)		
5.4.6	Insulation of internal wire as part of supplementary safeguard	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints	E A	y P
5.4.8	Humidity conditioning	T L T	P
Zy,	Relative humidity (%)	93	
, F	Temperature (°C)	30.2	
	Duration (h)	48	Z/R
5.4.9	Electric strength test	(See appended table 5.4.9)	P
5.4.9.1	Test procedure for a solid insulation type test	,5	N/A
5.4.9.2	Test procedure for routine tests	6 5	N/A
5.4.10	Protection against transient voltages between external circuit	The state of	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods	F. F.	N/A
5.4.10.2.1	General	7	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	19 19	15 4	4
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.11	Insulation between external circuits and earthed circuitry	(See appended table 5.4.9)	P
5.4.11.1	Exceptions to separation between external circuits and earth	2 4	P A
5.4.11.2	Requirements	5 , 47	P
14	Rated operating voltage Uop (V)	£ 6 £	
F	Nominal voltage Upeak (V)		,<
7	Max increase due to variation Usp	Z Z	38
	Max increase due to ageing Usa	3	2
	Uop= Upeak + Usp + Usa		~ <u>-</u>
5.5	Components as safeguards	â	N/A
5.5.1	General	4	∠ N/A
5.5.2	Capacitors and RC units	19 F	N/A
5.5.2.1	General requirement	5 3	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(See Annex G.5.3)	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	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	K K	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	(See Annex G.10.3)	N/A
5.6	Protective conductor	X	P
5.6.2	Requirement for protective conductors		P
5.6.2.1	General requirements	Z. Z.	P
5.6.2.2	Colour of insulation	T. S.	P
5.6.3	Requirement for protective earthing conductors	,	P
	Protective earthing conductor size (mm)	,5	
5.6.4	Requirement for protective bonding conductors	6 8	ΑP
5.6.4.1	Protective bonding conductors	LE Z	∠√ P
	Protective bonding conductor size (mm)	F 5 .	
78	Protective current rating (A)	Z. Y. Z.	^
5.6.4.3	Current limiting and overcurrent protective devices	T. T.	P

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Clause	Requirement – Test	Result – Remark	Verdict
	15	19 1	14
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
F	Conductor size (mm), nominal thread diameter	E H	N/A
5.6.5.2	Corrosion	K. J.	N/A
5.6.6	Resistance of te protective system	~	P
5.6.6.1	Requirements	6 29	P
5.6.6.2	Test Method Resistance	(See appended table 5.6.6.2)	P
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and protective	e conductor current	P
5.7.2	Measuring devices and networks		P
5.7.2.1	Measurement of touch current	7.5	Р
5.7.2.2	Measurement of prospective touch voltage		P
5.7.3	Equipment set-up, supply connections and earth connections	6 5	A P
X	System of interconnected equipment (separate connections/single connection)	single connection	٧ <u>-</u>
ZHE	Multiple connections to mains (one connection at a time/simultaneous connections)		<
5.7.4	Earthed conductive accessible parts		P
5.7.5	Protective conductor current	.5	P
	Supply Voltage (V)	4 4 4	<
5	Measured current (mA)		X
24	Instructional Safeguard	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	Zii Ziii	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	25	N/A
5.7.7	Summation of touch currents from external circuits		N/A
Ely,	a) Equipment with earthed external circuits Measured current (mA)		N/A
7,	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	N. S.	N/A
6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		P
6.2.2	Power source circuit classifications	All circuits except for output circuits are considered as PS3. Output circuits (connector) complied with Q.1 considered as PS21.	P

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Clause	Requirement – Test	Result – Remark	Verdict
	1,5	15	Z
6.2.2.2	Power measurement for worst-case load fault	See 6.2.2	N/A
6.2.2.3	Power measurement for worst-case power source fault	F. 7. 7.	N/A
6.2.2.4	PS1	Output circuits (connector)	Р
6.2.2.5	PS2	A. B.	N/A
6.2.2.6	PS3		Р
6.2.3	Classification of potential ignition sources	All conductors and devices are considered as PIS.	Р
6.2.3.1	Arcing PIS	See 6.2.3	N/A
5.2.3.2	Resistive PIS	See 6.2.3	N/A
6.3	Safeguards against fire under normal operating and abn	ormal operating conditions	P
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 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	1	N/A
6.4	Safeguards against fire under single fault conditions	L'O LT	P
6.4.1	Safeguard Method	Control of fire spread.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS3	P
6.4.3.1	General	Li L	P
6.4.3.2	Supplementary Safeguards	\$,5	P
23	Special conditions if conductors on printed boards are opened or peeled	3	P
6.4.3.3	Single Fault Conditions	(See appended table 6.4.3)	P
. /	Special conditions for temperature limited by fuse	T.	P
5.4.4	Control of fire spread in PS1 circuits		P
5.4.5	Control of fire spread in PS2 circuits	-49	N/A
6.4.5.2	Supplementary safeguards	\$ 50 3	N/A
6.4.6	Control of fire spread in PS3 circuit		P
5.4.7	Separation of combustible materials from a PIS	7 7	P
6.4.7.1	General	(See tables 6.2.3.1 and 6.2.3.2)	P
5.4.7.2	Separation by distance	7,	P
5.4.7.3	Separation by a fire barrier		N/A
5.4.8	Fire enclosures and fire barriers	, 47	P
5.4.8.1	Fire enclosure and fire barrier material properties	5	, S P
6.4.8.2.1	Requirements for a fire barrier	K Z .	N/A
6.4.8.2.2	Requirements for a fire enclosure	JE 17 JE	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		P

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6.4.8.3.1 Fire enclosure and fire barrier openings 6.4.8.3.2 Fire barrier dimensions 6.4.8.3.3 Top Openings in Fire Enclosure; dimensions(mm) Needle Flame test 6.4.8.3.4 Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm) Flammability tests for the bottom of a fire enclosure enclosure 6.4.8.3.5 Integrity of the fire enclosure, condition met: a), b) or c) 6.4.8.4 Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating 6.5 Internal and external wiring 6.5.1 Requirements 6.5.2 Cross-sectional area (mm²) 6.5.3 Requirements for interconnection to building wiring 6.6 Safeguards against fire due to connection to additional equipment External port limited to PS2 or complies with Clause Q.1 7 INJURY CAUSED BY HAZARDOUS SUBSTANCES 7.2 Reduction of exposure to hazardous substances 7.3 Ozone exposure 7.4 Use of personal safeguards (PPE) Personal safeguards and instructions: 7.5 Use of instructional safeguards and instructions Instructional safeguards and instructions Instructional safeguards and instructions Instructional safeguards (ISO 7010) 8 MECHANICALLY-CAUSED INJURY 8.1 General 8.2 Mechanical energy source classifications 8.3 Safeguards against mechanical energy sources 8.4 Safeguards against mechanical energy sources 8.5 Safeguards against moving parts	mark Ve	rdict
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8.3 Safeguards against mechanical energy sources 8.4 Safeguards against parts with sharp edges and corners 8.4.1 Safeguards	E.	P
Safeguards against parts with sharp edges and corners Safeguards Safeguards	7,	P
corners 8.4.1 Safeguards		P
	<u> </u>	P
8.5 Safeguards against moving parts	LI L	P
	S.V	J/A
MS2 or MS3 part required to be accessible for the function of the equipment	N	J/A

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Clause	Requirement – Test	Result – Remark	Verdict
	19 19	1,9	24
8.5.4	Special categories of equipment comprising		N/A
2	moving parts	7 5 3	1071
8.5.4.1	Large data storage equipment	Z Z Z	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	N. A.	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts	5	N/A
74	Instructional Safeguard	£ 19 £	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)	12 12	N/A
8.5.5	High Pressure Lamps	F	N/A
8.5.5.1	Energy Source Classification	7,	N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	1	N/A
8.6.1	Product classification	The state of the s	N/A
	Instructional Safeguard:	E	
8.6.2	Static stability	30 10 30	N/A
8.6.2.2	Static stability test	1	N/A
7,1	Applied Force:	2 ~	
8.6.2.3	Downward Force Test	43	N/A
8.6.3	Relocation stability test		N/A
49	Unit configuration during 10 tilt		157
8.6.4	Glass slide test	Z Z	N/A
8.6.5	Horizontal force test (Applied Force)	7 3	N/A
	Position of feet or movable parts		
8.7	Equipment mounted to wall or ceiling	6	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	5 5 5	N/A
8.7.2	Direction and applied force	E LI E	N/A
3.8	Handles strength	T. T.	N/A
8.8.1	Classification	2	N/A
8.8.2	Applied Force	2	N/A
3.9	Wheels or casters attachment requirements		N/A
3.9.1	Classification	, L	N/A
8.9.2	Applied force	,5 5	,6-
8.10	Carts, stands and similar carriers	L Z Z	N/A
8.10.1	General	Z Z Z	N/A
3.10.2	Marking and instructions	2 1 2	N/A
18	Instructional Safeguard		

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Clause	Requirement – Test	Result – Remark	Verdict
	19 19	1,50	24
8.10.3	Cart, stand or carrier loading test and compliance		N/A
7 2	Applied force	F 5 2	
8.10.4	Cart, stand or carrier impact test	<u> </u>	N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)	4	
8.10.6	Thermoplastic temperature stability	6 /2	N/A
8.11	Mounting means for rack mounted equipment	9 6 5	N/A
8.11.1	General		N/A
8.11.2	Product Classification	J. F.	N/A
8.11.3	Mechanical strength test, variable N	<u> </u>	N/A
8.11.4	Mechanical strength test 250N, including end stops	7	N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A
	Button/Ball diameter (mm)	4 4	4
9	THERMAL BURN INJURY	To the second	P
9.2	Thermal energy source classifications		P
9.3	Safeguard against thermal energy sources	2 X	P
9.4	Requirements for safeguards	7	P
9.4.1	Equipment safeguard		P
9.4.2	Instructional safeguard	1,9	N/A /
10	RADIATION		N/A
10.2	Radiation energy source classification		N/A
10.2.1	General classification	A F	N/A
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		
	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
	Instructional safeguard:	144	47 <u>-</u>
	Tool:	¥ 13 \$	
10.4	Protection against visible, infrared, and UV radiation		N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	N. S.	N/A
10.4.1.b)	RS3 accessible to a skilled person	4	N/A
5	Personal safeguard (PPE) instructional safeguard	\$ £	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	4 8	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	F 2 6	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque		N/A
10.4.1.f)	UV attenuation		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	(2)	19 1	24
10.4.1.g)	Materials resistant to degradation UV	S 47	N/A
0.4.1.h)	Enclosure containment of optical radiation:	3 3	N/A
10.4.1.i)	Exempt Group under normal operating conditions	The state of	N/A
10.4.2	Instructional safeguard	~	N/A
0.5	Protection against x-radiation	4 .5	N/A
0.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
	Normal, abnormal, single fault conditions:		N/A
7/	Equipment safeguards:		N/A
F	Instructional safeguard for skilled person:	37 77	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	T. T.	18
	Abnormal and single-fault condition	(See appended table B.3 & B.4)	N/A
	Maximum radiation (pA/kg)	1	N/A
0.6	Protection against acoustic energy sources	43	N/A
0.6.1	General	E	N/A
0.6.2	Classification	£ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N/A
7	Acoustic output, dB(A)	B	N/A
77	Output voltage, unweighted r.m.s		N/A
0.6.4	Protection of persons		N/A
	Instructional safeguards	5 5	N/A
43	Equipment safeguard prevent ordinary person to RS2		121
F	Means to actively inform user of increase sound pressure	THE THE	R
	Equipment safeguard prevent ordinary person to RS2	Z	
0.6.5	Requirements for listening devices (headphones, earphones, etc.)	5	N/A
10.6.5.1	Corded passive listening devices with analog input	5 5	N/A
J.F.	Input voltage with 94 dB(A) LAeq Acoustic pressure output	z. Z. Z.	
0.6.5.2	Corded listening devices with digital input	\$ 4	N/A
	Maximum dB(A)	T. Company	78
0.6.5.3	Cordless listening device	,	N/A
4	Maximum dB(A)	,5	
3	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT CONDI		S ^P
3.2	Normal Operating Conditions	4 8	P
3.2.1	General requirements	(See Test Item Particulars and appended test tables)	P

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	EN IEC 62368-1:2020+A		
Clause	Requirement – Test	Result – Remark	Verdict
		~ ~ ~	24
\S/	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	N/A
B.2.3	Supply voltage and tolerances	3 7 2	P
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	~	P ^
B.3.1	General requirements	(See appended table B.3)	P
B.3.2	Covering of ventilation openings	9 A K	N/A
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals	37 77	Р
B.3.6	Reverse battery polarity	ZZ,	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	.5	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	5 5	∠ P
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short-circuited	(See appended table B.4)	N/A
B.4.3	Motor tests	18	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	4 5 5	N/A
B.4.4.1	Short circuit of clearances for functional insulation	7 7 4	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	A LA	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	N. A. W.	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	5	N/A
B.4.6	Short circuit or disconnect of passive components		N/A
B.4.7	Continuous operation of components	Z W Z	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		P
B.4.9	Battery charging under single fault conditions	(See Annex M)	N/A
С	UV RADIATION	~	N/A
C.1	Protection of materials in equipment from UV radiation	Ś	N/A
C.1.2	Requirements	6 5	N/A
C.1.3	Test method	The Tax	N/A
C.2	UV light conditioning test	R R	N/A
C.2.1	Test apparatus	Z. V. Z.	N/A
C.2.2	Mounting of test samples	7	N/A

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EN IEC 62368-1:2020+A11:2020				
Clause	Requirement – Test	Result – Remark	Verdict	
C.2.3	Carbon-arc light-exposure apparatus	T 4 5	27/4	
C.2.4	Xenon-arc light exposure apparatus	7 2 2	N/A	
D D	TEST GENERATORS	7 7 7	N/A	
D.1	Z, Y, Z,	1/3 E	 31/A	
D.1 D.2	Impulse test generators		N/A	
D.2 D.3	Antenna interface test generator	- 5	N/A	
	Electronic pulse generator	INIC ALIDIO AMBI IEIEDE	N/A	
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	I AUDIO AMPLIFIERS	N/A	
E.1	Audio amplifier normal operating conditions	7 2 3	N/A	
7	Audio signal voltage (V)	777	7	
	Rated load impedance (Ω)	T. T	- T	
E.2	Audio amplifier abnormal operating conditions		N/A	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS) INSTRUCTIONAL	Р	
F.1	General requirements	,6	6 P	
,4	Instructions – Language	English	< ·	
F.2	Letter symbols and graphical symbols	The The	P	
F.2.1	Letter symbols according to IEC60027-1	\$	P	
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		P	
F.3	Equipment markings	.5	Р	
F.3.1	Equipment marking locations	On the bottom of enclosure	P	
F.3.2	Equipment identification markings		P	
F.3.2.1	Manufacturer identification	INVT Network Power (Shenzhen) Co.,Ltd.	R-	
F.3.2.2	Model identification	IS100, IS160		
F.3.3	Equipment rating markings	AC 220V,50/60Hz, 13.6A-27.27A	P	
F.3.3.1	Equipment with direct connection to mains	43	√° P	
F.3.3.2	Equipment without direct connection to mains	5 5	N/A	
F.3.3.3	Nature of supply voltage	Zi Zi Zi		
F.3.3.4	Rated voltage	AC 220V		
F.3.3.5	Rated frequency	50/60Hz	5	
F.3.3.6	Rated current or rated power	13.6A-27.27A	<u>~</u>	
F.3.3.7	Equipment with multiple supply connections		N/A	
F.3.4	Voltage setting device	49	N/A	
F.3.5	Terminals and operating devices	5 5	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A	
F.3.5.2	Switch position identification marking	<u>Z</u> , <u>Z</u> , <u>Z</u> ,	N/A	
F.3.5.3	Replacement fuse identification and rating markings	The state of the s	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict
	1,9	19 4	24
F.3.5.4	Replacement battery identification marking	19	N/A
F.3.5.5	Terminal marking location	F. 5. 3	N/A
F.3.6	Equipment markings related to equipment classification	THE STATE OF	Р
F.3.6.1	Class I Equipment	Α,	P A
F.3.6.1.1	Protective earthing conductor terminal	4 6	P
F.3.6.1.2	Neutral conductor terminal	13 4 24	P
F.3.6.1.3	Protective bonding conductor terminals		P
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth	Z Z Z	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	Y. P.	N/A
F.3.7	Equipment IP rating marking	.6	
F.3.8	External power supply output marking	See copy of marking plate	∠ P
F.3.9	Durability, legibility and permanence of marking	The state of the s	P
F.3.10	Test for permanence of markings	5 3 5	Р
F.4	Instructions		P
N. P.	a) Equipment for use in locations where children not likely to be present - marking	The	P
	b) Instructions given for installation or initial use	\$	P
	c) Equipment intended to be fastened in place		N/A
2	d) Equipment intended for use only in restricted access area		N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	L'A	N/A
	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits	29	E P
	h) Symbols used on equipment	F 49 F	P
Fill	i) Permanently connected equipment not provided with all-pole mains switch		N/A
7,1	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards		N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	4	N/A
G	COMPONENTS	W J	/ P
G.1	Switches	F. 3	P
G.1.1	General requirements	3, 4, 3,	P
G.1.2	Ratings, endurance, spacing, maximum load	-	P

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Clause	Requirement – Test	Result – Remark	Verdict	
	,9 ,9	,9	24	
G.2	Relays		N/A	
G.2.1	General requirements		N/A	
G.2.2	Overload test	A ST	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	
G.3	Protection Devices		N/A	
G.3.1	Thermal cut-offs		N/A	
G.3.1.1a)	Thermal cut-outs separately approved according to		N/A	
&b)	IEC 60730 with conditions indicated in a) & b)		IV/A	
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	A. S.	N/A	
G.3.1.2	hermal cut-off connections maintained and secure	K .	N/A	
G.3.2	Thermal links	42	N/A	
G.3.2.1a)	Thermal links separately tested with IEC 60691	9	N/A	
1	Thermal links tested as part of the equipment	E 3 .	N/A	
E.	Aging hours (H)	The Part of the Pa	/	
Z,	Single Fault Condition	3		
P	Test Voltage (V) and Insulation Resistance			
G.3.3	PTC Thermistors	5	N/A	
G.3.4	Overcurrent protection devices	4 8 4	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	A LA	N/A	
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A	
G.4	Connectors		N/A	
G.4.1	Spacings	5	N/A	
G.4.2	Mains connector configuration	- E	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	F F F	N/A	
G.5	Wound Components		N/A	
G.5.1	Wire insulation in wound components	(See Annex J)	N/A	
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Sleeve used for windings.	N/A	
G.5.1.2 b)	Construction subject to routine testing	,9	N/A	
G.5.2	Endurance test on wound components		N/A	
G.5.2.1	General test requirements	H X	//N/A	
G.5.2.2	Heat run test	7 8 1	N/A	
7	Time (s)	X X	1	

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Clause	Requirement – Test	Result – Remark Verdic		
	19 19	,9	24	
G.5.2.3	Wound Components supplied by mains		N/A	
G.5.3	Transformers	7 2	P	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-	A H	P	
7	1/-2, and/or IEC62368-1)		1	
	Position	~	^	
4	Method of protection	4 ,6		
G.5.3.2	Insulation	29 6 6	N/A	
E.	Protection from displacement of windings		,<	
G.5.3.3	Overload test	(See appended table B.3)	N/A	
G.5.3.3.1	Test conditions	3, 7,	N/A	
G.5.3.3.2	Winding Temperatures testing in the unit	T.	N/A	
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A	
G.5.4	Motors	43	N/A	
G.5.4.1	General requirements	6	N/A	
	Position	A B	<u></u>	
G.5.4.2	Test conditions	T T	N/A	
G.5.4.3	Running overload test	3	N/A	
G.5.4.4	Locked-rotor overload test	~	N/A	
	Test duration (days)	6		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	5 5 5	N/A	
G.5.4.5.2	Tested in the unit		N/A	
	Electric strength test (V)	Z Z	8	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	No.	N/A	
	Electric strength test (V)		Λ	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	E A	N/A	
G.5.4.6.2	Tested in the unit	T W Z	N/A	
3,	Maximum Temperature		N/A	
F	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	Z. T.	N/A	
0.7.1.0	Electric strength test (V)		N/A	
G.5.4.8	Three-phase motors	4 4	N/A	
G.5.4.9	Series motors	2 7	N/A	
	Operating voltage			
G.6	Wire Insulation	The The The	P	
G.6.1	General	A. E.	P	
G.6.2	Solvent-based enamel wiring insulation		N/A	

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Clause	Requirement – Test	Result – Remark	Verdict
	, Ś	19	24
G.7	Mains supply cords		P
G.7.1	General requirements		P
4	Туре	<u> </u>	
- 1,	Rated current (A)	7	
	Cross-sectional area (mm2), (AWG)		
G.7.2	Compliance and test method	<u> </u>	P
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		P
G.7.3.2	Cord strain relief		P
G.7.3.2.1	Requirements	<u> </u>	P
	Strain relief test force (N)	T. P.	F
G.7.3.2.2	Strain relief mechanism failure	A	P
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	199	
G.7.3.2.4	Strain relief comprised of polymeric material	6 5	N/A
G.7.4	Cord Entry	THE THE RESERVE TO THE PROPERTY OF THE PROPERT	P
G.7.5	Non-detachable cord bend protection	B. B. B.	P
G.7.5.1	Requirements	3	P
G.7.5.2	Mass (g)	7,	
	Diameter (m)	â	
	Temperature (°C)	4 24 4	4
G.7.6	Supply wiring space	9 3 42	N/A
G.7.6.2	Stranded wire	3 5	N/A
G.7.6.2.1	Test with 8 mm strand	Z Z	N/A
G.8	Varistors	, F	N/A
G.8.1	General requirements	~	N/A
G.8.2	Safeguard against shock	43	N/A
G.8.3	Safeguard against fire	5 5	N/A
G.8.3.2	Varistor overload test	(See appended table B.3)	N/A
G.8.3.3	Temporary overvoltage	(See appended table B.3)	N/A
G.9	Integrated Circuit (IC) Current Limiters	E. C.	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	~	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA	, 47	,
G.9.1 d)	IC limiter output current (max. 5A)	19 5	,6-
G.9.1 e)	Manufacturers'defined drift	<u> </u>	<u> </u>
G.9.2	Test Program 1	The Tay of	N/A
G.9.3	Test Program 2	4 4	N/A
G.9.4	Test Program 3	A	N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
Clause	Kequitement – rest	Result – Remark	Vergice	
G.10	Resistors		N/A	
G.10.1	General requirements		N/A N/A	
G.10.1 G.10.2	Resistor test	- F - F		
G.10.2	Test for resistors serving as safeguards between		N/A	
G.10.5	the mains and an external circuit consisting of a coaxial cable	4	N/A	
G.10.3.1	General requirements	19 1	N/A	
G.10.3.2	Voltage surge test	19 A	N/A	
G.10.3.3	Impulse test	3	N/A	
G.11	Capacitor and RC units	77	N/A	
G.11.1	General requirements	F	N/A	
G.11.2	Conditioning of capacitors and RC units	,	N/A	
G.11.3	Rules for selecting capacitors	,6	N/A	
G.12	Optocouplers		N/A	
1	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	The Party of the P	N/A	
14,	Type test voltage Vini	5 7 5		
P	Routine test voltage, Vini,b	2		
G.13	Printed boards	6	N/A	
G.13.1	General requirements	4 4 4	N/A	
G.13.2	Uncoated printed boards	F 12	N/A	
G.13.3	Coated printed boards	3	N/A	
G.13.4	Insulation between conductors on the same inner surface	7 3	N/A	
	Compliance with cemented joint requirements (Specify construction)	~ ~		
G.13.5	Insulation between conductors on different surfaces	8	N/A	
- E	Distance through insulation	(See appended table 5.4.4.5)	N/A	
- Z,	Number of insulation layers (pcs)	F E		
G.13.6	Tests on coated printed boards	7, 1,	N/A	
G.13.6.1	Sample preparation and preliminary inspection	A.V	N/A	
G.13.6.2a)	Thermal conditioning		N/A	
G.13.6.2b)	Electric strength test	,9	N/A	
G.13.6.2c)	Abrasion resistance test	6 5	N/A	
G.14	Coating on components terminals	4 7	N/A	
G.14.1	Requirements	(See G.13)	N/A	
G.15	Liquid filled components	Z. V. Z.	N/A	
G.15.1	General requirements	7	N/A	

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Clause	Requirement – Test	Result – Remark Verdic
Clause	Kequitement 1est	Result Remark Verus
G.15.2	Requirements	N/A
G.15.2	Compliance and test methods	
G.15.3.1	Hydrostatic pressure test	N/A
G.15.3.1	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		N/A
	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
	Humidity treatment in accordance with sc5.4.8–120 hours	N/A
	b) Impulse test using circuit 2 with Uc = to transient	N/A
	voltage	7,41
	C1) Application of ac voltage at 110% of rated	N/A
	voltage for 2.5 minutes C2) Test voltage	E E
J.F.	D1) 10,000 cycles on and off using capacitor with	N/A
E.	smallest capacitance resistor with largest resistance	IVA
7,	specified by manufacturer	
	D2) Capacitance	
	D3) Resistance	5 5
I S	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
I.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing signal	N/A
H.3.1.1	Frequency (Hz)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
H.3.1.2	Voltage (V)	19 -
H.3.1.3	Cadence; time (s) and voltage (V)	- Z
H.3.1.4	Single fault current (mA)	7, 7, -
H.3.2	Tripping device and monitoring voltage	N/A
H.3.2.1	Conditions for use of a tripping device or a	N/A
7/2.2.2	monitoring voltage complied with	
1.3.2.2	Tripping device	N/A
I.3.2.3	Monitoring voltage (V)	5 5
	INSULATED WINDING WIRES FOR USE WITHOUT INTER	LEAVED INSULATION N/A
	General requirements	N/A
	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
A		

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Clause	Requirement – Test	Result – Remark	Verdict	
	19 19	19	24	
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A	
K.3	Inadvertent change of operating mode	Z Z Z	N/A	
K.4	Interlock safeguard override		N/A	
K.5	Fail-safe	2	N/A	
	Compliance	(See appended table B.4)	N/A	
K.6	Mechanically operated safety interlocks	19 1	N/A	
K.6.1	Endurance requirement		N/A	
K.6.2	Compliance and Test method		N/A	
K.7	Interlock circuit isolation	37. 75.	N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	T. S.	N/A	
K.7.2	Overload test, Current (A)	.5	N/A	
K.7.3	Endurance test	1	/ N/A	
K.7.4	Electric strength test	(See appended table 5.4.11)	N/A	
L ,	DISCONNECT DEVICES	E	Р	
L.1	General requirements		P	
L.2	Permanently connected equipment	T	N/A	
L.3	Parts that remain energized		N/A	
L.4	Single phase equipment	43	Р	
L.5	Three-phase equipment	\$ 6	N/A	
L.6	Switches as disconnect devices		N/A	
L.7	Plugs as disconnect devices	T T	P	
L.8	Multiple power sources	2	N/A	
M	EQUIPMENT CONTAINING BATTERIES AND TH	EIR PROTECTION CIRCUITS	N/A	
M.1	General requirements	5	N/A	
M.2	Safety of batteries and their cells	2 1	N/A	
M.2.1	Requirements	7 4 7	N/A	
M.2.2	Compliance and test method (identify method)		N/A	
M.3	Protection circuits	37	N/A	
M.3.1	Requirements	18 and 18	N/A	
M.3.2	Tests	^'	N/A	
_	- Overcharging of a rechargeable battery	.6	N/A	
9	- Unintentional charging of a non-rechargeable battery		N/A	
	- Reverse charging of a rechargeable battery	E. Z.	N/A	
. 0	- Excessive discharging rate for any battery	The The The	N/A	
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict		
		19	14		
M.4	Additional safeguards for equipment containing secondary lithium battery	X 4 3	N/A		
M.4.1	General	3 2 3 3			
M.4.2	Charging safeguards	7, 2	N/A		
M.4.2.1	Charging operating limits	~	N/A		
M.4.2.2a)	Charging voltage, current and temperature	(See Table M.4)			
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)			
M.4.3	Fire Enclosure		N/A		
M.4.4	Endurance of equipment containing a secondary lithium battery	The state of the s	N/A		
M.4.4.2	Preparation	2	N/A		
M.4.4.3	Drop and charge/discharge function tests		N/A		
	Drop	Ś	N/A		
	Charge	4 24	∠ N/A		
	Discharge	La Caraciana de la Caraciana d	N/A		
M.4.4.4	Charge-discharge cycle test	5 3	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	T. E.	N/A		
M.5.1	Requirement	4	N/A		
M.5.2	Compliance and Test Method (Test of P.2.3)	1,55	N/A /		
M.6	Prevention of short circuits and protection from other effects of electric current		N/A		
M.6.1	Short circuits	3 / 3	N/A		
M.6.1.1	General requirements		N/A		
M.6.1.2	Test method to simulate an internal fault	T. T.	N/A		
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	5	N/A		
M.6.2	Leakage current (mA)		N/A		
M.7	Risk of explosion from lead acid and NiCd batteries		N/A		
M.7.1	Ventilation preventing explosive gas concentration	The state of the s	N/A		
M.7.2	Compliance and test method	T	N/A		
M.8	Protection against internal ignition from external spark sources of lead acid batteries	<u> </u>	N/A		
M.8.1	General requirements	4 4	N/A		
M.8.2	Test method	19 7	N/A		
M.8.2.1	General requirements	7, 2,	N/A		
M.8.2.2	Estimation of hypothetical volume Vz (m/s)	The The The	/		
M.8.2.3	Correction factors	E E			
M.8.2.4	Calculation of distance d (mm)	7			

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Clause	Requirement – Test	Result – Remark	Verdict				
	19	19 4	24				
M.9	Preventing electrolyte spillage		N/A				
M.9.1	Protection from electrolyte spillage	72 T	N/A				
M.9.2	Tray for preventing electrolyte spillage	\(\frac{1}{2}\)	N/A				
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection,data review; or abnormal testing)						
N S	ELECTROCHEMICAL POTENTIALS	19 2 4	N/A				
7	Metal(s) used	S. B.	/				
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	A A	P				
	Figures O.1 to O.20 of this Annex applied	PD2					
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OF INTERNAL LIQUIDS	BJECTS AND SPILLAGE OF	P				
P.1	General requirements	15	P				
P.2.2	Safeguards against entry of foreign object		& P				
/	Location and Dimensions (mm)		¥				
P.2.3	Safeguard against the consequences of entry of foreign object	The The	N/A				
P.2.3.1	Safeguards against the entry of a foreign object	T. T.	N/A				
7/2	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)	A LANGE OF THE SECOND OF THE S	N/A				
P.3	Safeguards against spillage of internal liquids	Z Z	N/A				
P.3.1	General requirements	Z	N/A				
P.3.2	Determination of spillage consequences	1	N/A				
P.3.3	Spillage safeguards	47	N/A				
P.3.4	Safeguards effectiveness	\$ 5	N/A				
P.4	Metallized coatings and adhesive securing parts	Z, Z, Z,	P				
P.4.2 a)	Conditioning testing	T Z	N/A				
712	Tc (°C)		5				
	Tr (°C)	27	7,				
	Ta (°C)						
P.4.2 b)	Abrasion testing	(See G.13.6.2)	N/A				
P.4.2 c)	Mechanical strength testing	(See Annex T)	N/A				
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р				
Q.1	Limited power sources	X 72 74	P				
Q.1.1 a)	Inherently limited output	2	N/A				
Q.1.1 b)	Impedance limited output		N/A				

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EN IEC 62368-1:2020+A11:2020						
Clause	Requirement – Test	Result – Remark	Verdict			
,		49 1	74			
	- Regulating network limited output under normal operating and simulated single fault condition	(See Annex Q.1)	N/A			
Q.1.1 c)	Overcurrent protective device limited output	3 37 38	N/A			
Q.1.1 d)	IC current limiter complying with G.9	7, 2	N/A			
Q.1.2	Compliance and test method	~	P ^			
Q.2	Test for external circuits – paired conductor cable	\$	N/A			
13	Maximum output current (A)	8 4 4				
	Current limiting method		,<			
R	LIMITED SHORT CIRCUIT TEST		N/A			
R.1	General requirements		N/A			
R.2	Determination of the overcurrent protective device and circuit	T. R.	N/A			
R.3	Test method Supply voltage (V) and short-circuit current (A))	24	N/A			
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	9	6 P			
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		P			
7	Samples, material	· A				
7/2	Wall thickness (mm)					
	Conditioning (°C)	,9	/			
4	Test flame according to IEC 60695-11-5 with conditions as set out		P			
4	- Material not consumed completely		P			
R	- Material extinguishes within 30s		P			
	- No burning of layer or wrapping tissue	X	P			
S.2	Flammability test for fire enclosure and fire barrier integrity	<u></u>	P			
	Samples, material	44	4			
	Wall thickness (mm)	¥ 19 8				
Z	Conditioning (°C)	£ 5 Z				
THE STATE OF THE S	Test flame according to IEC 60695-11-5 with conditions as set out		P			
3	Test specimen does not show any additional hole		P			
S.3	Flammability test for the bottom of a fire enclosure	5	P			
9	Samples, material	4	Λ			
	Wall thickness (mm)	13 X	49-			
	Cheesecloth did not ignite		P			
S.4	Flammability classification of materials	7 1	P			

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- CI	EN IEC 62368-1:2020+A		
Clause	Requirement – Test	Result – Remark	Verdict
A	14 A 4 A	- 4	7,
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceed 4 000 W	THE THE PERSON NAMED IN TH	N/A
TA	Samples, material	3 3 7	
	Wall thickness (mm)	77	X
,	Conditioning (test condition), (°C).		
45	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
T. T.	After every test specimen was not consumed completely		N/A
7	After fifth flame application, flame extinguished within 1 min	Fig. 17,	N/A
T	MECHANICAL STRENGTH TESTS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	P
Т.1	General requirements	6	P
T.2	Steady force test, 10 N	(See appended table T.2)	, P
T.3	Steady force test, 30 N	19	N/A
T.4	Steady force test, 100 N	(See appended table T.4)	N/A
T.5	Steady force test, 250 N	321	N/A
T.6	Enclosure impact test	(See appended table T.6)	P
7/4	Fall test		P
	Swing test	(5)	N/A
T.7	Drop test	(See appended table T.7)	N/A
T.8 5	Stress relief test	(See appended table T.8)	N/A
T.9	Impact Test (glass)	A A	N/A
T.9.1	General requirements	7 3	N/A
Т.9.2	Impact test and compliance		N/A
	Impact energy (J)		<u> </u>
	Height (m)	4	4
T.10	Glass fragmentation test	A 18 A	N/A
T.11	Test for telescoping or rod antennas	<u>z.</u> Z. <u>Z.</u>	N/A
F	Torque value (Nm)	The state of the s	
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsicallyprotected CRTs	4 4	N/A
U.3	Protective Screen	(See Annex T)	N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FING	GERS, PROBES AND WEDGES)	P
V.1	Accessible parts of equipment	Z, \(\(\frac{1}{2}\), \(\frac{1}{2}\),	P
V.2	Accessible part criterion	4	P

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CI.				/00-1.2	020+A11:20				
Clause Requirement -		t – Test	– Test Resu		Resul	ılt – Remark		Verdict	
, ,	S		18		,	16			24
		,6			Ś	6	Z		J.F.
1.8.4, TA	BLE: 1	Lithium coin/button	cell batter	ies me	chanical tests		7	N/A	
The following	mechani	ical tests are conducte	ed in the	sequen	ce noted.)		1		
1.8.4.2 TA	BLE: St	ress Relief test							
Part		Material		Ove	n Temperatu	re (°C)		Comme	nts
- 4		4		- ,	4		<u>_</u>		
1.8.4.3 TA	BLE: Ba	attery replacement tes	st	5			7	TK	
Battery part no:				4	Fy.			7	
Battery In:	stallation	n/withdrawal	Battery	Install	ation/Remov	al Cycle		Comme	nts
	74.	7,			<1	F			F
			F		2	ζ,			7,
		, ,			3		6		
		Ś			6		- 40)	
		41	4	1	4	5	/		5
		2	5		5	1	7		4
					6				
		8		7	7	1	\	14,	A)
Z.		20			8			F	
		Z -			9			7	
				7			<u> </u>		
			,	6	10	4	Y		
1.8.4.4	141	TABLE: Drop test		/					
Impact Ar	rea	Drop Distance			Drop No.			Observat	ions
	7,		3		1	2	/-	F	2
F		\ F	F		2	Ø	7 3	<u></u>	7,
		5		R	3		-18		
1.8.4.5		TABLE: Impact				, /			,
Impacts per surface Surface tested			Crushing Force (N)		(N)	Duration force applied (s)			
- 25			5				4		
Supplementary	informa	tion:	~	1,50	V		1,50	7.	
F		47 8		7	H,		74	4	
1.8.5		BLE: Lithium coin/bu		batterie			F	· P	N/A
Test position		Surface tested	d		F	orce (N)		Dura	tion force

4.8.5	TABLE: Lithium coin/button cell batte	N/A					
Test position	Surface tested	Duration force					
			applied (s)				
/	Ź						
Supplementary in	Supplementary information:						

. ~)		. ()	/	, ~/	/		/
5.2	Table: Classif	ication of electrical	energy sources		S S		P
No.	Supply	Location((e.g.	Test	Parameters			ES Class
	Voltage	circuit	conditions	U	I	Hz	
		designation)		(Vrms or Vpk)	(Apk or Arms)		
1	220Vac	Input	Normal	- F		7	ES3
TA			Abnormal:		,	_	

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V.					1			
		E.	Single fault	- \$	_		<u>k</u>	
		7,	SC/OC:	7,				4
5.2.2.3	Capacitance L	Limits						
No.	Supply	Location((e.g.	Test		Param			ES Class
	Voltage	circuit designation)	conditions	Capacitance,	nF	Uţ	ok (V)	
5	2	F E	Normal	B Z		17/	-12	
1		Z, \(\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\ti}	Abnormal:			· F		, ,
	7		Single fault		/	(,		
	_		SC/OC:	4			.6	
5.2.2.4	Single Pulses							
No.	Supply	Location((e.g.	Test		Param	neters	, P	ES Class
ZY	Voltage	circuit designation)	conditions	Duration (ms)	F	Upk (V)	Ipk (mA)	R
Y	77	T. A.	Normal	-18	1			7
	THE TOTAL PROPERTY OF THE PROP	Abnormal	1	Υ			R	
			Single fault SC/OC			,0	/ 	
5.2.2.5	Repetitive Pul	lses						
No.	Supply	Location((e.g.	Test	45	Paran	neters		ES Class
	Voltage	circuit designation)	conditions	Duration (ms)	Ţ	Upk (V)	Ipk (mA)	, F
Z			Normal	- 2	1		- 7	7
F		\$	Abnormal	- 7			/	1
7,			Single fault SC/OC			,5		,0
	nditions: rmal – any load normal -	25	A LA	150	THE		224	THE

Supplementary information: SC=Short Circuit, OC=Open circuit

5.4.1.4,	TABL	E: Temperatu	ire me	asuren	nents						P
6.3.2, 9.0, B.2.6	4	TIL		1				5			5
	Supply	y voltage(V):		19	98V /60Hz	24	2V /60	Hz		۸	
	Ambie	ent Tmin (°C)		7	15		F		4	9 5	
Ambient Tmax (°C)				7		-	<u> </u>			-7	
Maximum me part/at:	asured te	mperature T	of				T(°C)			Allowed Tmax (°C)
Internal wire	· E			A	41.2		44.5	~	<u></u>		105
Enclosure ins	ide			35.7			35.9		\ \ \ \		115
Enclosure out	tside	4			32.1	9	32.4		1/9		90
Ambient	4	4		S	22.5		22.5	5		()	6-
Temperature 7 winding:	Γof	t1 (°C)	R1	(°C)	t2 (°C)	R2 (°	C)	T (°C	C)	Allowed Tmax (°C)	Insulation class
			1				14.		. \		1

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

1. With a specified maximum ambient temperature and test temperature of 45° C, the maximum permitted temperatures are calculated as follows: Winding components (providing safety isolation):

Class 130 (B) Tmax = 120° C - 10° C = 110° C

2. During the test, the sealing compound did not soften or melt.

2. During t	ne test, t	ne seanng	z compot	illa alc	i noi sone	or or the	,5			4 2	Y
5.4.1.10.2	TAB	LE: Vicat	softenin	g temp	perature o	f therm	plastics	P	7.	7,	N/A
Penetration											
Object/ Par	t No./M	aterial					Manufacturer/trademark			T softening	(°C)
/										- 5	
supplemen	tary info	rmation:		15		,		£	4		
5.4.1.10.3	TAB	LE: Ball 1	oressure 1	test of	thermopla	astics	T. F		7	X	N/A
Allowed in	pression	n diamete	r (mm):		•						
Object/Par	-			cturer	/trademar	k	Test ter	mperature (°C)	Imp	ression diam	eter (mm)
	72		<u> </u>		7,		<u> </u>	V			· F
Supplemen	tary info	rmation:			T. T.			7.		<u>/</u>	
5.4.2.2, 5.4.2.4 and	5.4.3	TABLE	: Minimu	ım Cle	arances/C	reepage	e distance	15	R		S P
	` /	d creepag f/betweer	- 1	Up (V)	U r.m.s.		quency (Hz) ¹	Required cl (mm)	cl (mm)	Require cr (mm)	
Trace of L/	'N		/ /-	350	240		~	3.0	>3.0	3.2	>3.2
1) * Both f temporary	overvolt. TABL	age (2000 E: Minim	Vpeak) v	which rances	is higher t	than Ta	ble 12.	oresent. Limit f		le 11 based oi	n the N/A
		oltage Ca)V):	17		0			6	7
D'		on Degre				-	7,			Z))	1/1
Clearance	distance	l between	:	Req	uired with voltage			Required of (mm)	:l	Measur	ed cl (mm)
								<u> </u>			/
Supplemen 1. BI: basic			inforced	insula	tion;	/-		4			47
	~~				, ,	250		F	15	T	
5.4.2.4			/	35. 7	electric str			8	7	8	N/A
Test voltag	e applied	l between	:]	Required (mm)	cl		est voltage (kV eak/ r.m.s. / d.c		Breake Yes /	
		7			F			7			J.
Supplemen	tary info	rmation:			7			~			7
5.4.4.2,5.4. 5.4.4.9	4.5 c)	TABLE:	Distance	throu	gh insulat	tion me	asuremen	ts		5	N/A
Distance th	rough			Peak	voltage	Free	uency	Material	Reg	uired DTI	DTI
insulation of					Voltage V)		Hz)	Widterial	1 -	(mm)	(mm)
		X		6				8	7		
Supplemen	tary info	rmation:		X,	7	1		Z Z	N.	X	
Sapplemen	,y 11110	IIIuuloii.		7			3				
5.4.9	TAR	LE: Elect	ric strene	oth test	te .						P
2.1.2	11110		5110112	5.11 1031							1

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen

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Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:		/	6
-		S ,	,€,
Basic/supplementary:	4 4	4 6	
8 8 8	.5 2	,4/	7.
Reinforced:	The St.		7.
L/N & output terminal	AC	4000	No
L/N & enclosure	AC	4000	No
Supplementary information:	E .	7/4	

5.5.2.2	5.5.2.2 A TABLE: Stored discharge on capacitors								
Supply Voltage (V), Hz	Test	Operating	Switch	Measured Voltage	ES Classification				
	Location	Condition	position	(after 2 seconds)					
		(N, S)	On or off						
242V 60Hz	L-N	N	77.	86.8	ES2				

Supplementary information:

X-capacitors installed for testing are:

Obleeding resistor rating:

OICX:

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

B. Operating condition abbreviations:

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

5.6.6.2 TABLE: Resistance of protective conductors and terminations											
Accessible part	Test current	Duration	Voltage drop	Resistance							
	(A)	(min)	(V)	(Ω)							
, \\	<u> </u>			^_							
Supplementary information	:		,S	15							

5.7.2.2,	TABLE: E	Earthed acces	sible conductive	e part			N/A		
5.7.4	37.		74 3	. `	5 3				
Supply v	oltage :	7	-	3	7,				
Location			Test co	nditions spec	cified in 6.1 of IE	C 60990 or Fault	Touch current		
			Conditi	on No in IEO	C 60990 clause 6.	2.2.1 through	(mA)		
			6.2.2.8,	except for 6	5.2.2.7				
			1	1	150		N/A		
	40		47	2*			N/A		
				3 /	F	15	N/A		
.5	T	47	T	4	7		N/A		
			7,	5	T	Z,	N/A		

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)

6.2.2	Table: Electrical pow	able: Electrical power sources (PS) measurements for classification								
Source	Description	Measurement	Max Power after 3 s	Max Power after	PS					
				5s*	Classification					
Output	Normal(220V)	Power (W):	246	7,	PS3					

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	E E	VA (V):	220	· R	
1		IA (A):	2.2		

Supplementary Information:

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

6.2.3.1	Table:	Determination of Potential Ignition Sources (Arcing PIS) N/A								
Location		Open circuit	Measured r.m.s	Calculated value	Arcing PIS?					
		voltage	current	(Vp x Irms)	Yes / No					
		After 3 s	(Irms)							
		(Vp)								
-2		· = = = = = = = = = = = = = = = = = =		-8	Arcing PIS (declare)					

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 (Vp) and normal operating condition rms current (Irms) is greater than 15.

d	6.2.3.2	Table:	Determination of I	Potential Ignition S	Sources (Resistive	PIS)	N/A
V	Circuit Location	Location Operating		Measured	Measured	Protective Circuit,	Resistive
	(x-y)		Condition	wattage or VA	wattage or VA	Regulator, or PTC	PIS?
		(N	ormal / Describe	During first 30	After 30 s (W	Operated?	Yes/No
			Single Fault)	s (W / VA)	/VA)	Yes / No	
						(Comment)	
	- 8		8		- 7	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>

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, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High Pressure Lamp	5	N/A
	Description	Values	Energy Source Classification
Lamp type:		,5	
Manufactur	er:	7, Z,	
Cat no:		72, 12,	
Pressure (co	old) (MPa):	2	MS_
Pressure (or	perating) (MPa):		MS_
Operating ti	me (minutes):	<u> </u>	
Explosion n	nethod:	4	
Max particle	e length escaping enclosure (mm):	A C	
Max particle	e length beyond 1 m (mm):	Zi, Ya	MS_
Overall resu	ılt:	'A 'YE	MS_
Supplement	ary information:	7	

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[&]quot;Max power after 3 s" is determined by adjustment of the variable resistive load to cause not more than 15 W of power dissipation for 3 seconds.

^{(*) &}quot;Max power after 5 s" is determined by adjustment of the variable resistive load to cause not more than 100 W of power dissipation.



B.2.5	TABLE: In	put test				F	P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
198V/50Hz	1.16	5	230	-	- 5	,	Normal load
198V/60Hz	1.16	5	230	- 4		5	Normal load
220V/50Hz	1.10	4,5	241	, 47	7 4	1	Normal load
220V/60Hz	1.10	5	241	R	F	<u> </u>	Normal load
242V/50Hz	1.02	5	246	F -	~ <u>-</u>		Normal load
242V/60Hz	1.02	5	246				Normal load
- /			4				1.0

Supplementary information:

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

B.3	B.3 TABLE: Abnormal operating condition tests									
Ambient temperature (°C):										
Power source for EUT: Manufacturer, model/type, output rating:										
Component	Abnormal	Supply	Test time	Fuse	Fuse	T-couple	Temp.(°C)	Observation		
No. Condition voltage, (V) (ms) no. current, (A)										
, '		, 					<u> </u>			

-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.

B.4	TABLE: F	BLE: Fault condition tests								
Ambient temperature (°C):										
Power source	Power source for EUT: Manufacturer, model/type, output rating:									
Component	Fault	Supply	Test	Fuse	Current,	T-coup	Temp.	Observ	ation	
No.	Condition	voltage, (V)	time	no.	(A)	le	(°C)			
L-N	Shorted	240Vac/60	1s	24	- 6	/	X	No Ha	zard	
.0		Hz 🔊			N.	/ 3	Y	147	7	

Supplementary information:

NB = No indication of dielectric breakdown; NC = Cheesecloth remained intact; NT = Tissue paper remained intact; IP = Internal protection operated (list component); CD = Components damaged (list damaged components); @ = Tests were repeated 2 more times (Totally 3 times) and get the same result; I/P = Input; O/P = Output, NSF = No Ignition, TC = Touch Current measured.

Annex M TABLE:	Batteries		6		4	?	99.9	47	N/A
The tests of Annex M	are applica	able only w	hen appropria	te battery o	data is not	available			-
Is it possible to install	the battery	in a rever	se polarity pos	sition?:	B.			F -	-
	Non-re	echargeable	e batteries			Rechargea	ble batterie	es	
	Discharging Un-			Char	ging	Disch	arging	Reversed	charging
	Meas. Manuf. intentional				Manuf.	Meas.	Manuf.	Meas.	Manuf.
	current	Specs.	charging	current	Specs.	current	Specs.	current	Specs.
Max. current				/			/		
during normal		4		6			6		
condition		5	,	,47		,	,47		/
Test results:			4.	T		7	7	Ve	erdict
- Chemical leaks	7/1		-			-			<
- Explosion of the bat	tery	7/	F		N.	R		X	T
- Emission of flame o	- Emission of flame or expulsion of molten metal								
- Electric strength test	- Electric strength tests of equipment after completion of tests								
Supplementary inform	nation:								
				_			_		7

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Annex M.4	Table	: Additional safeguards fo	or equipment cor	ntaining seconda	ry lithiumba	tteries	N/A
Battery/Cell	Battery/Cell No. Test conditions			Measurements	Observation		
			U	I (A) Temp (°C)		C)	
۸	24	Normal	24	۷	24	6	
,5		Abnormal		,5 ,		A X	
<u></u>	1	Single fault –SC/OC)	4 2		7	
Supplementar	y Infori	mation: SC = short circui	t.	. 2	>	h L	
Battery		Charging at	Observation	Charging	g at	Observation	n
identificat	ion	Tlowest(°C)		Thighest((°C)		
			- V			,	
Supplementar	y Infor	mation:		- 2		6	

Annex Q.1										
Note: Measured UOC (V) with all load circuits disconnected:										
Output	Components	Uoc (V)	Isc (A)		S (VA)					
Circuit			Meas.	Limit	Meas.	Limit				
(-)	- 3, 7,	\(\frac{1}{2}\)	/	- 2		2				
		2		/ //						
Supplementar	ry Information: SC=Short	circuit, OC=Ope	n circuit		4					

T.2, T.3, TABLE: Steady 1	force test	K	4	5	A P
Part/Location	Material	Thickness	Force(N)	Test Duration	Observation
		(mm)		(sec)	
Enclosure(Top/Side /Bottom)	Metal	- 8	10	5	No damage, No cracking
Internal parts	- 5	/	10	5	No damage, No cracking
Supplementary information:					

T.6, T.9	TABLE: Impact tests	ć		P
Part/Location	Material	Thickness (mm)	Vertical distance	Observation
			(mm)	
Enclosure Top	Metal) 	1300	No damage, No cracking
Supplementary	information:	2	Z.	A Z Z

T.7 TABLE	: Drop tests				N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	1
		4	- 8		S
Supplementary inform	ation:	,65	141		4

T.8 T	ABLE: Stress relief	test	K W	4	71	P			
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration(h)	Observ	vation			
Plastic enclosu	re Plastic	7, - 5	70	7	No damage,	No cracking			
Supplementary information:									

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Appendix for product photos





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