

World Standardization Certification & Testing Group Co., Ltd.



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TEST REPORT

On Behalf of

Cablecard Multi-Functional Wireless Charger

Prepared for :

Prepared By :

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

Building A-B, Baoshi Road, Baoshi Science & Technology Park, Bao'an District, Shenzhen,Guangdong, China

TEL:86-755-26996192; FAX: 86-755-86376605

Date of Test: Date of Report: Report Number:

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13 March 2020 to 30 March 2020 07 April 2020 WSCT-IT200400062A

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Report No.: WSCT-IT200400062A Issued: 07 April 2020 Revised: None

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Revision History Of Report

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT-IT200400062A	Initial Issue	ALL	Wang Fengbing

ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Τ	Global	CBTL	IECEE (International Electrotechnical Commission, The certificate registration	-
			number is TL672)	
	America	USA	NVLAP(The certificated registration number is 600142-0)	
	Asia /5/	China	CNAS (The certificated registration number is L3732)	1

Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com





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	WSET TEST REPORT WSET	WIST
/	EN 62368-1	
$\overline{\ }$	Audio/video, information and communication technology	
ET	equipment Part 1: Safety requirements	
	Report reference No: WSCT-IT200400062A	X
	Tested by (Testing Engineer)	wser
\leq	Checked by (Project Engineer):: Qin Chongying	
	Approved by	
	(Authorized Signatory): Liu Haipeng	X
	Date of issue	AWSET
\checkmark	Total number of pages: 86	
_	Testing Laboratory Name:: World Standardization Certification & Testing Group (Shenzhen)	So., Ltd.
	Address	Bao'an
	District, Shenzhen, Guangdong, China	X
	Testing location:: Same as above	
/	Applicant's Name	
X	Address	
567	Test specification	
	Standard: EN 62368-1:2014+A11:2017	X
	Test procedure: TEST REPORT	wser
/	Non-standard test method: N/A	
$\overline{\ }$	Test Report Form No: EN62368_1B	
ET	TRF originator	
	Master TRF 2014-03	
	tilication WSET WSET	WISET
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esting Group ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com sation Certification 8 世标检测认证股份 Testing Group Co.,Ltd.

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Test item description: Cablecard Multi-Functional Wireless Charger

Trademark:

Manufacturer.....

Model and/or type reference

Output: 5V ____1A

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	TEST ITEM PARTICULARS: W5LT	WSET WSET WSET
/	Classification of use by	⊠ Ordinary person
		Instructed person
67	WSET WSET	Skilled person 7°
		Children likely to be present
	Supply Connection:	AC Mains DC Mains
	WSET WSET	External Circuit - not Mains connected
/		- 🖂 ES1 🗌 ES2 🔲 ES3
	Supply % Tolerance:	□ +10%/-10%
67	WSET	□ +20%/-15%
		□ +%/%
		⊠ None
	Supply Connection – Type	pluggable equipment type A - W5 7
/		non-detachable supply cord
		appliance coupler
<u>C7</u>	WSET WSET	direct plug-in
		mating connector
		pluggable equipment type B -
	WSET WSET	W5C7 non-detachable supply cord
/		appliance coupler
1		permanent connection
[7	WISET WISET	☐ mating connector ⊠ other: <u>not mains connected</u>
	Considered current rating of protective device as part of building or equipment installation	
		Installation location: Duilding; dequipment
	Equipment mobility	movable hand-held transportable
/		stationary for building-in direct plug-in rack-mounting wall-mounted
1	Over voltage category (OVC)	
[]	Stor tolidge dategory (CTO)	OVC IV ⊠ other: _not mains connected
	Class of aquipment	
	Class of equipment	Class I Class II Class III
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Access location	□ restricted access location ⊠ N/A
Pollution degree (PD)	□ PD 1 PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	<u>40</u> °C
IP protection class	
Power Systems	
Altitude during operation (m)	⊠ 2000 m or less □m
Altitude of test laboratory (m)	
Mass of equipment (kg)	⊠ _ <u>0.046_</u> kg X
WSET	
POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object	N/A

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- test case does not apply to the test object:	N/A	
- test object does meet the requirement	P (Pass) WSLT WSL	7
- test object does not meet the requirement:	F (Fail)	
TESTING:		
Date of receipt of test item:	13 March 2020	7
Date (s) of performance of tests:	13 March 2020 to 30 March 2020	

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General remarks

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

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

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

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

List of Attachments:

Attachment No. 1: Photograph Attachment No. 2: Equipment list

Comments

Brief description of the test sample:

The equipment is a Cablecard Multi-Functional Wireless Charger for the general use in information technology equipment or audio/video equipment.

The manufacturer specified maximum ambient temperature is 40°C.

Summary of Testing and Conclusions

The sample(s) tested complies with the requirements of EN 62368-1:2014+A11:2017



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Cablecard Multi-Functional Wireless Charger Model No.: BM3016 Micro USB Input: 5V ---- 2A Wireless output: 5V ===-1A

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Remark: There is reference lable. Final lable should be including the content of them.

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	Report No.: WSCT-IT200400062A Iss	ued: 07 April 2020 R	evised: None For Question Please Contact with www.wsct-cert.	WSCT
	ENERGY SOURCE IDENTIFICATION	AND CLASSIFICAT	ION TABLE:	SET
× 1561		g., ES2, TS1, should	ased on the origin of the energy.) be with respect to its ability to cause pain or injury on energy source can be declared Class 3 as a worse	
	Electrically-caused injury (Clause 5):	:		\times
	(Note: Identify type of source, list sub-a classification)	assembly or circuit de	esignation and corresponding energy source	SET
\searrow	Example: +5 V dc input		ES1	
\wedge	Source of electrical energy		Corresponding classification (ES)	
(5[]	All circuits		ES1	
	Electrically-caused fire (Clause 6):		L	
	(Note: List sub-assembly or circuit des Example: Battery pack (maximum 85 w		onding energy source classification) PS2	557
\checkmark	Source of power or PIS		Corresponding classification (PS)	
	Internal circuits	\square	PS1	
15E1	Injury caused by hazardous substar	nces (Clause 7)		
	(Note: Specify hazardous chemicals, v part of the component evaluation.)	vhether produces ozc	one or other chemical construction not addressed as	Х
	Example: Liquid in filled component		Glycol	SET
	Source of hazardous substances	\sim	Corresponding chemical	
\wedge	N/A		N/A	-
<u> 1521</u>	Mechanically-caused injury (Clause	8)		
(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table Example: Wall mount unit MS2 Source of kinetic/mechanical energy Corresponding classification (MS)				\times
				567
\searrow	Edges and corners of enclosure	\sim	MS1	
	Mass of the unit		MS1	
<u> </u>				\times
	dification WSC		VSET WSET	1567

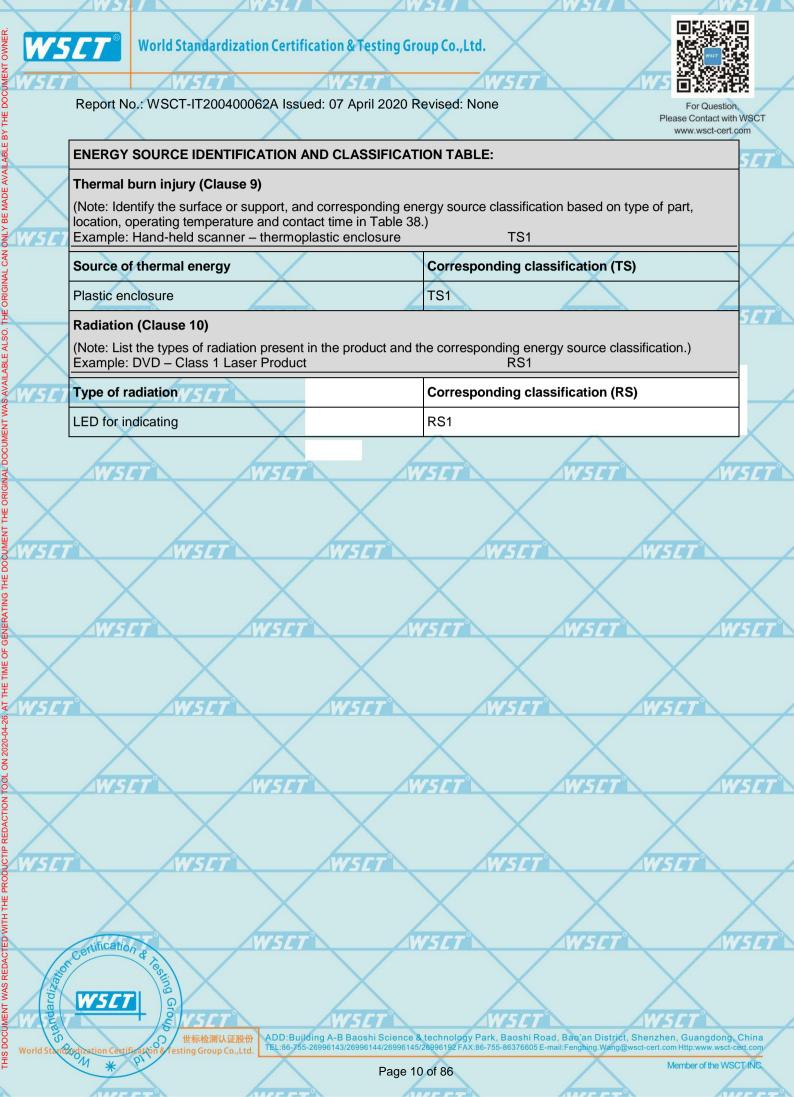


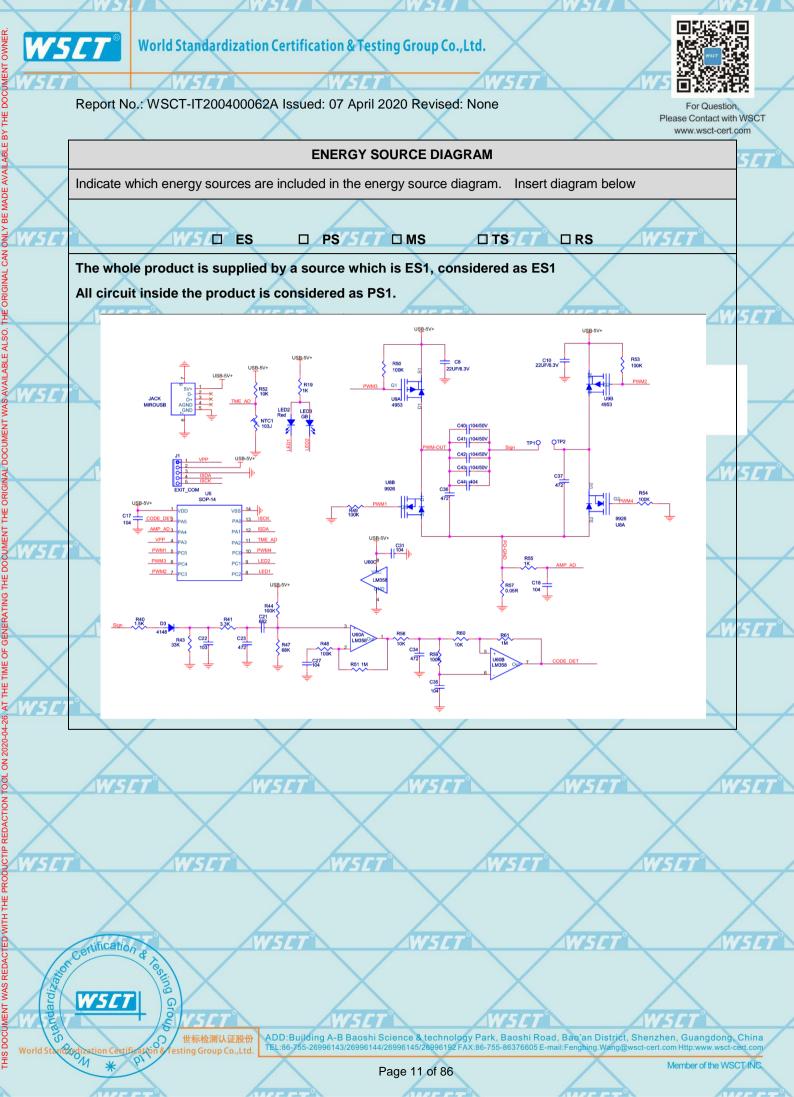
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	Clause	Possible Hazard		\backslash	
ļ	5.1	Electrically-caused inju	ry		
	Body Part	Energy Source		Safeguar	ds
	(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced(Enclosure)
7	Ordinary	ES1: All internal circuits	N/A CT	N/A	N/A
	6.1	Electrically-caused fire			
	Material part	Energy Source		Safeguar	ds
	(e.g. mouse enclosure)	(PS1: 15 Watt circuit)	Basic	Supplementary	Reinforced
	Enclosure	PS1: <15 Watt circuit (Internal circuit and)	See 6.3	V-1	N/A
	РСВ	PS1: <15 Watt circuit (Internal circuit)	See 6.3	V-0	N/A
	7.1	Injury caused by hazard	dous substan	ces	
	Body Part	Energy Source		Safeguar	ds
	(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
	N/A	N/A	N/A	N/A	N/A
	8.1	Mechanically-caused in	jury		
	Body Part	Energy Source		Safeguar	ds
	(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
	Ordinary	MS1: Edges and corners	N/A	N/A	N/A o
	Ordinary	MS1: Mass of the unit	N/A	N/A	N/A
	9.1	Thermal Burn			
	Body Part	Energy Source		Safeguar	ds
	(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced

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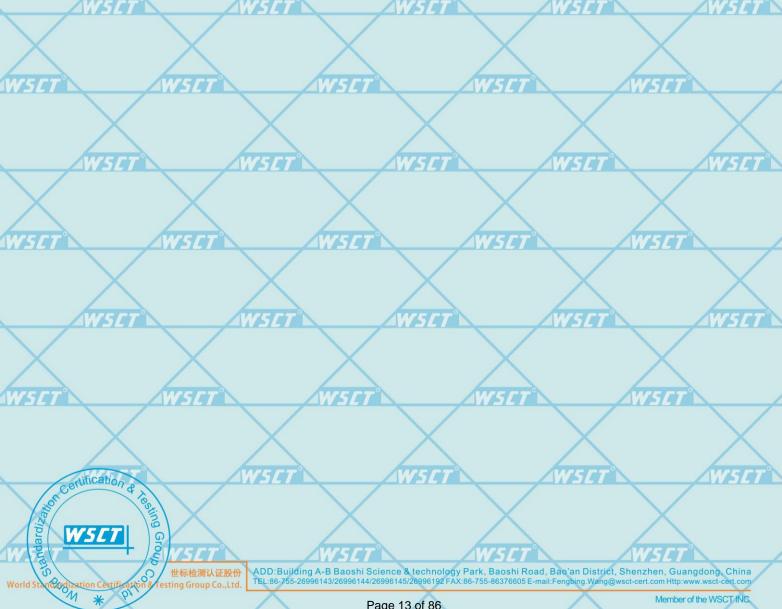
	Ordinary	TS1: Plastic	N/A_7	N/A	N/A	SET
/		enclosure				
	10.1	Radiation				
7	Body Part	Energy Source		Safegua	rds	
	(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	\times
	Ordinary	LED for indicating	N/A	N/A	N/A	SET°
	Supplementary Information:					

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Supplementary Information:

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

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault





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Clause	Requirement – Test	Result – Remark	Verdict
4	General Requirements	— X X	P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their	P
AWSET	WISET	are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	
4.1.3	Equipment design and construction	No accessible part which could	Р
4.1.15	Markings and instructions :	Cause injury (See Annex F) 5CT	P
4.4.4	Safeguard robustness	See below	Р
4.4.4.2	Steady force tests :	(See Annex T.4)	Р
4.4.4.3	Drop tests :	(See Annex T.7)	P
4.4.4.4	Impact tests :	XXX	N/A
4.4.4.5 W5C7	Internal accessible safeguard enclosure and tests :	d barrier	N/A
4.4.4.6	Glass Impact tests :		N/A
4.4.4.7	Thermoplastic material tests :	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard : WSC7	WSET WSE	N/A
4.4.4.9	Accessibility and safeguard effectiveness	No damage	Р
4.5 WSET	Explosion WSET	No explosion occurs during normal/abnormal operation and single fault conditions	P
4.6	Fixing of conductors		N/A
4.6.1	Fix conductors not to defeat a safeguard	WSET WSL	N/A
4.6.2	10 N force test applied to :		N/A

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	Aurer	EN62368-1	WEFT	hurs	
/	Clause	Requirement – Test	Result – Remark	Verdict	
	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) :	X	N/A	
	4.8	Products containing coin/button cell batteries	Autorn ^a	N/A	- 7
1	4.8.2	Instructional safeguard		N/A	-
	4.8.3	Battery Compartment Construction	\times \times	N/A	
/		Means to reduce the possibility of children removing			
.7		the battery :			
	4.8.4	Battery Compartment Mechanical Tests :		N/A	/
	4.8.5	Battery Accessibility	~	N/A	
	4.9	Likelihood of fire or shock due to entry of conductive	It's impossible entry of a	N/A	
	<u>AWSET</u>	object : WSCT WSCT	conductive object from outside		
/			the equipment.		
-	5	Electrically-caused injury	hard hard	Р	
- /	5.2.1	Electrical energy source classifications :	(See appended table 5.2)	P	

	5	Electrically-caused injury		Р	
[7	5.2.1	Electrical energy source classifications :	(See appended table 5.2)	P	
	5.2.2	ES1, ES2 and ES3 limits	\sim	Р	/
	5.2.2.2	Steady-state voltage and current :	See appended table 5.2)	P	1
	5.2.2.3	Capacitance limits :	WISFT	N/A	7
/	5.2.2.4	Single pulse limits :	No such single pulses with the	N/A	
		\times \times	EUT		
1	5.2.2.5	Limits for repetitive pulses :	No such repetitive pulses with the	N/A	
[]		WSET WSET	EUT CT WSC		
	5.2.2.6	Ringing signals :	No such ringing signals with the	N/A	/
	X	X X	EUT	X	
	5.2.2.7	Audio signals :		N/A	
_	5.3	Protection against electrical energy sources	See below	P 51	9
/	5.3.1	General Requirements for accessible parts to	See below	Р	
1		ordinary, instructed and skilled persons	\land		
C 7	5.3.2.1	Accessibility to electrical energy sources and	Only ES1 circuit and the	Р	
		safeguards	enclosure (safeguard) are		
	X	XX	accessed to person.	\rightarrow	



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	WEFT	EN62368-1	WEFT	AVE	
/	Clause	Requirement – Test	Result – Remark	Verdict	
	5.3.2.2	Contact requirements	XX	N/A	
		a) Test with test probe from Annex V :		N/A	
Τ		b) Electric strength test potential (V) :		N/A	
		c) Air gap (mm) :		N/A	1
	5.3.2.4	Terminals for connecting stripped wire		N/A	
	5.4V5CT	Insulation materials and requirements	WSET	N/A 5	2
/	5.4.1.2	Properties of insulating material		N/A	
	5.4.1.3	Humidity conditioning :	X X	N/A	
	5.4.1.4	Maximum operating temperature for insulating		N/A	
T	Δ	materials :		-	
	5.4.1.5	Pollution degree :			1
	5.4.1.5.2	Test for pollution degree 1 environment and for an	\land	N/A	
	WEFT	insulating compound	A MARTIN		
/	5.4.1.5.3	Thermal cycling		N/A	2
	5.4.1.6	Insulation in transformers with varying dimensions	\times \times	N/A	
1	5.4.1.7	Insulation in circuits generating starting pulses		N/A	
7	5.4.1.8	Determination of working voltage	WSCT WSC	N/A	
	5.4.1.9	Insulating surfaces		N/A	/
	5.4.1.10	Thermoplastic parts on which conductive metallic	X	N/A	
		parts are directly mounted		600	
_	5.4.1.10.2	Vicat softening temperature :	WSLI	N/A	
/	5.4.1.10.3	Ball pressure :	\vee \vee	N/A	
1	5.4.2	Clearances	\land	N/A	
7	5.4.2.2	Determining clearance using peak working voltage	WSCT WSC	N/A	
	5.4.2.3	Determining clearance using required withstand		N/A	
	X	voltage :	X	X	
		a) a.c. mains transient voltage :		-/	
_	_WSET	b) d.c. mains transient voltage : WSCT	WSET	_ 1 ₩5	5
/		c) external circuit transient voltage :	\sim		
		d) transient voltage determined by measurement :	\land \land		
	5.4.2.4	Determining the adequacy of a clearance using an	WSET WSE	N/A	
		electric strength test			
	5.4.2.5	Multiplication factors for clearances and test	X	N/A	1
		voltages :			
	(TTT)			ATT IN	



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/	Clause	Requirement – Test	Result – Remark	Verdict	7
	5.4.3	Creepage distances :	X X	N/A	
	5.4.3.1	General		N/A	
	5.4.3.3	Material Group :		-	
	5.4.4	Solid insulation		N/A	/
	5.4.4.2	Minimum distance through insulation :		N/A	
	5.4.4.3	Insulation compound forming solid insulation	WSET	N/A 5	7
/	5.4.4.4	Solid insulation in semiconductor devices		N/A	
	5.4.4.5	Cemented joints	XX	N/A	
	5.4.4.6	Thin sheet material		N/A	
Τ	5.4.4.6.1	General requirements		N/A –	
	5.4.4.6.2	Separable thin sheet material		N/A	/
	\wedge	Number of layers (pcs) :		N/A	
	5.4.4.6.3	Non-separable thin sheet material	WSFT	N/A	3
/	5.4.4.6.4	Standard test procedure for non-separable thin sheet		N/A	
		material :	X X		
	5.4.4.6.5	Mandrel test		N/A	
.7	5.4.4.7	Solid insulation in wound components	WSCT WSCT	N/A	
	5.4.4.9	Solid insulation at frequencies >30 kHz :		N/A	1
	5.4.5	Antenna terminal insulation		N/A	
	5.4.5.1	General	And the second second	N/A	P
/	5.4.5.2	Voltage surge test		N/A	
		Insulation resistance (MΩ) :	\times \times		
1	5.4.6	Insulation of internal wire as part of supplementary		N/A	
.7	2	safeguard : WSCT	WSET WSET		
	5.4.7	Tests for semiconductor components and for		N/A	
		cemented joints		X	
	5.4.8	Humidity conditioning		N/A	-
/	ZWSET	Relative humidity (%) :		WS	-
		Temperature (°C) :	\times \times		
1	5.4.0	Duration (h) :			
.7	5.4.9	Electric strength test :	WSET WSET	N/A	
	5.4.9.1	Test procedure for a solid insulation type test		N/A	
	5.4.9.2	Test procedure for routine tests	X	N/A	5

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7	Clause	Requirement – Test	Result – Remark	Verdict	2
	5.4.10	Protection against transient voltages between	I X X	N/A	
1		external circuit			
[7	5.4.10.1	Parts and circuits separated from external circuits	W3144	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 : W5C7° W5C7°	WSET	N/A S	7
/	5.4.10.2.3	Steady-state test :		N/A	
$\langle \rangle$	5.4.11	Insulation between external circuits and earthed	XX	N/A	
	<u></u>	circuitry :			
	5.4.11.1	Exceptions to separation between external circuits		N/A	
		and earth			/
	5.4.11.2	Requirements		N/A	
	WSET	Rated operating voltage U _{op} (V) :	WISET	AV15	3
/		Nominal voltage U _{peak} (V) :			
$\langle \rangle$		Max increase due to variation U _{sp} :	X X		
1		Max increase due to ageing DU _{sa} :			
		$U_{op} = U_{peak} + DU_{sp} + DU_{sa}$:	WSLT WSL		
	5.5	Components as safeguards			1
	5.5.1	General		N/A	
	5.5.2	Capacitors and RC units	WISET	N/A	
/	5.5.2.1	General requirement		N/A	
$\langle \rangle$	5.5.2.2	Safeguards against capacitor discharge after	\times X	N/A	
		disconnection of a connector :			
	5.5.3	Transformers	W5147	N/A	
	5.5.4	Optocouplers		N/A	1
	5.5.5	Relays		N/A	
	5.5.6 5 [7	Resistors	WSET	N/A 5	
/	5.5.7	SPD's		N/A	
$\langle \rangle$	5.5.7.1	Use of an SPD connected to reliable earthing	XX	N/A	
	5.5.7.2	Use of an SPD between mains and protective earth		N/A	
27	5.5.8	Insulation between the mains and external circuit	WSL	N/A	
		consisting of a coaxial cable :			1
	5.6	Protective conductor		N/A	
	ATT			here	

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/	Clause	Requirement – Test	Result – Remark	Verdict	21
	5.6.2	Requirement for protective conductors	X X	N/A]
	5.6.2.1	General requirements		N/A	
71	5.6.2.2	Colour of insulation		N/A	
	5.6.3	Requirement for protective earthing conductors		N/A	1
		Protective earthing conductor size (mm ²) :		/	
	5.6.4 SET	Requirement for protective bonding conductors	WSET	N/A 5	7
/	5.6.4.1	Protective bonding conductors		N/A	
		Protective bonding conductor size (mm ²). :	XX		
1		Protective current rating (A) :			
<u> </u>	5.6.4.3	Current limiting and overcurrent protective devices		N/A	
	5.6.5	Terminals for protective conductors		N/A	/
	5.6.5.1	Requirement		N/A	
	WSET	Conductor size (mm ²), nominal thread diameter	WSET	N/A	2
/		(mm). :		/	
	5.6.5.2	Corrosion	X X	N/A	
1	5.6.6	Resistance of the protective system		N/A	
57	5.6.6.1	Requirements WSC7	WSET WSET	N/A	
	5.6.6.2	Test Method Resistance (Ω) :		N/A	1
	5.6.7	Reliable earthing		N/A	
	5.7	Prospective touch voltage, touch current and protective	conductor current	N/A	7
/	5.7.2	Measuring devices and networks		N/A	
	5.7.2.1	Measurement of touch current :	<u> </u>	N/A	
1	5.7.2.2	Measurement of prospective touch voltage		N/A	
57	5.7.3	Equipment set-up, supply connections and earth	WSET WSET	N/A	
		connections			
	X	System of interconnected equipment (separate	X	- >	
	And	connections/single connection) :		hurs	-
/		Multiple connections to mains (one connection at a			
/	574	time/simultaneous connections) :	\times \times	NI/A	
1	5.7.4 5.7.5	Earthed conductive accessible parts : Protective conductor current	$\wedge \wedge$	N/A N/A	
[]	5.7.5	Supply Voltage (V) :	WSET AWSET	IN/A	
		Measured current (mA) :			
	X		X		5

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	WEET	EN62368-1	Aures
/	Clause	Requirement – Test Result – Remark	Verdict
		Instructional Safeguard :	N/A
	5.7.6	Prospective touch voltage and touch current due to	N/A
		external circuits	
	5.7.6.1	Touch current from coaxial cables	N/A
	5.7.6.2	Prospective touch voltage and touch current from	N/A
	WSET	external circuits wsrt° wsrt°	WSI
/	5.7.7	Summation of touch currents from external circuits	N/A
		a) Equipment with earthed external circuits Measured	< N/A
		current (mA) :	
(b) Equipment whose external circuits are not	N/A
		referenced to earth. Measured current (mA) :	
	X	X	X

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	6	Electrically- caused fire	MARCES	Р	
_	6.2	Classification of power sources (PS) and potential ignit	ion sources (PIS)	P	
	6.2.2	Power source circuit classifications	PS (power source) classification	Р	
			determined by measuring the		
SET		WSET WSET	maximum power in Figures 34		
			and 35 for load and power source		
	X	X X	circuits.		
	6.2.2.1	General	See the following details.	Р	
	6.2.2.2 [7	Power measurement for worst-case load fault :	(See appended table 6.2.2)	PV5	7
/	6.2.2.3	Power measurement for worst-case power source	(See appended table 6.2.2)	Р	
X		fault :			
	6.2.2.4	PS1 :	(See appended table 6.2.2)	P	
5L /	6.2.2.5	PS2		N/A	-
	6.2.2.6	PS3 :		N/A	/
	6.2.3	Classification of potential ignition sources		N/A	
	6.2.3.1	Arcing PIS : WSCT	WISET	N/A S	7
/	6.2.3.2	Resistive PIS :		N/A	
X	6.3	Safeguards against fire under normal operating and	\times \times	Р	
		abnormal operating conditions			
<u>5<i>CT</i></u>	6.3.1 (a)	No ignition and attainable temperature value less	(See appended table 5.4.1.5,	Р	
		than 90 % defined by ISO 871 or less than 300 °C for	6.3.2, 9.0, B.2.6)		1
	X	unknown materials :	X		



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/	Clause	Requirement – Test	Result – Remark	Verdict
	6.3.1 (b)	Combustible materials outside fire enclosure	No such materials used.	N/A
	6.4	Safeguards against fire under single fault conditions		P
91	6.4.1	Safeguard Method	Method by control fire spread.	P
	6.4.2	Reduction of the likelihood of ignition under single		N/A
	$ \land$	fault conditions in PS1 circuits	\sim	
	6.4.3 5 7 7	Reduction of the likelihood of ignition under single	WSCT	N/A 5
/		fault conditions in PS2 and PS3 circuits		
	6.4.3.1	General	\times \times	N/A
1	6.4.3.2	Supplementary Safeguards		Р
.7		Special conditions if conductors on printed boards are	No such case happened.	N/A
		opened or peeled		
	6.4.3.3	Single Fault Conditions :	\land	N/A
	AVIET	Special conditions for temperature limited by fuse	WIEIT	N/A
-	6.4.4	Control of fire spread in PS1 circuits		Р
	6.4.5	Control of fire spread in PS2 circuits	\sim	N/A
	6.4.5.2	Supplementary safeguards :		N/A
5.0	6.4.6	Control of fire spread in PS3 circuit		N/A
	6.4.7	Separation of combustible materials from a PIS	See below	Р
	6.4.7.1	General :	Only small parts of combustible	Р
	W5ET	WSET WSET	material (with mass less than 4g)	W5
/			on the PCB is not considered as	
		XX	PIS does not require separation	
			from PIS. Separation	
- 1		ZWSUI	requirements from PIS to the	
			plastic enclosure see also clause	
	$ \land$		6.4.8.4	\wedge
	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	See below	Р
1	6.4.8.1	Fire enclosure and fire barrier material properties	V-1 fire enclosure used, min. V-0	Р
[7	1	WSET WSET	PCB used, considered as fire	
			enclosure.	
	6.4.8.2.1	Requirements for a fire barrier	X	N/A



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/	Clause	Requirement – Test	Result – Remark	Verdict	
	6.4.8.2.2	Requirements for a fire enclosure	See cl.6.4.8.1	Р	
67	6.4.8.3	Constructional requirements for a fire enclosure and a	See below W5C1	Р	
	6.4.8.3.1	fire barrier Fire enclosure and fire barrier openings	Fire enclosure with only	N/A	1
	0.4.0.3.1	The enclosure and the barner openings	openings for USB connector.		
	6.4.8.3.2	Fire barrier dimensions	W5/7°	N/A	-
/	6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm) :		N/A	
1		Needle Flame test		N/A	
[7	6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a),		N/A	
	\sim	b) and/or c) dimensions (mm) :			/
	\square	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	
1	6.4.8.4	Separation of PIS from fire enclosure and fire barrier	V-1 fire enclosure used, V-0	N/A	
CT		distance (mm) or flammability rating :	PCB used, considered as fire		
			enclosure.		
	6.5	Internal and external wiring	X	P	
	6.5.1	Requirements		Р	
_	6.5.2 5 5 7	Cross-sectional area (mm ²) :	WSGT	<u>₩5</u>	Ż
\langle	6.5.3	Requirements for interconnection to building wiring :	No such interconnection to building wiring.	N/A	
C 7	6.6	Safeguards against fire due to connection to additional equipment	WSET WSE	N/A	
	X	External port limited to PS2 or complies with Clause Q.1	X	N/A	1
	WSET	wsrt wsrt	WSET	WSI	2
/	7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р	
<	7.2	Reduction of exposure to hazardous substances	XX	Р	
1	7.3	Ozone exposure		N/A	

	/	Personal safeguards and instructions :	
7.5	X	Use of instructional safeguards and instructions	

Use of personal safeguards (PPE)

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Clause Requirement – Test Result – Remark	Verdict	
Instructional safeguard (ISO 7010) :]	
7.6 Batteries :	N/A	

	8	MECHANICALLY-CAUSED INJURY	\sim	Р
	8.1	General	See the following details.	Р
	8.2 V5 [T	Mechanical energy source classifications	Sharp edges and corners,	PVSCI
/			classified as MS1	
X		XX	Equipment mass < 7 kg, classified	
	2		as MS1	
LI	8.3	Safeguards against mechanical energy sources	MS1	N/A
	8.4	Safeguards against parts with sharp edges and	Accessible edges and corners of	N/A
		corners	the equipment are rounded and	
	WSET	WSET WSET	are classified as MS1.	WSCI
/	8.4.1	Safeguards		N/A
$\langle \rangle$	8.5	Safeguards against moving parts	XX	N/A
1	8.5.1	MS2 or MS3 part required to be accessible for the		N/A
ET	<u> </u>	function of the equipment	WSET WSET	
	8.5.2	Instructional Safeguard :		
	8.5.4	Special categories of equipment comprising moving		N/A
	Augen	parts	And the second s	1000
-	8.5.4.1	Large data storage equipment		N/A
\checkmark	8.5.4.2	Equipment having electromechanical device for	\sim \times	N/A
1		destruction of media		
SET	8.5.4.2.1	Safeguards and Safety Interlocks :	WSCT WSC	N/A
	8.5.4.2.2	Instructional safeguards against moving parts		N/A
		Instructional Safeguard :	X	X
	8.5.4.2.3	Disconnection from the supply		N/A
	8.5.4.2.4	Probe type and force (N) :	WSET	N/A 5
	8.5.5	High Pressure Lamps	\sim \sim	N/A
	8.5.5.1	Energy Source Classification	\land \land	N/A
77	8.5.5.2	High Pressure Lamp Explosion Test :	huge huge	N/A
	8.6	Stability	Classification MS1 according to	N/A
	\mathbf{X}	X X	table 35, line 5 and no stability	



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7	Clause	Requirement – Test	Result – Remark	Verdict	
		XX	requirement.		
	8.6.1	Product classification		N/A	
7		Instructional Safeguard :	WSET AWSET		
	8.6.2	Static stability		N/A	1
	8.6.2.2	Static stability test		N/A	
	WSET	Applied Force : VSCT	WSET	W5	
/	8.6.2.3	Downward Force Test		N/A	
	8.6.3	Relocation stability test	XX	N/A	
		Unit configuration during 10° tilt :			
7	8.6.4	Glass slide test		N/A	
	8.6.5	Horizontal force test (Applied Force) :		N/A	/
	\wedge	Position of feet or movable parts :	\wedge	/	
	8.745577	Equipment mounted to wall or ceiling	WEFT	N/A	
/	8.7.1	Mounting Means (Length of screws (mm) and		N/A	
		mounting surface) :	XX		
1	8.7.2	Direction and applied force :		N/A	
7	8.8	Handles strength W5C7	WSCT WSCI	N/A	
	8.8.1	Classification		N/A	/
	8.8.2	Applied Force :		N/A	-
	8.9	Wheels or casters attachment requirements		N/A	
/	8.9.1	Classification		N/A	
	8.9.2	Applied force :	\times \times		
1	8.1	Carts, stands and similar carriers	\land	N/A	
7	8.10.1	General 7°	WSCT WSC	N/A	
	8.10.2	Marking and instructions		N/A	
		Instructional Safeguard :	X	>	
	8.10.3	Cart, stand or carrier loading test and compliance		N/A	
-	ZWSLI	Applied force :	WSL	1.1.157	
/	8.10.4	Cart, stand or carrier impact test	\sim	N/A	
1	8.10.5	Mechanical stability	\land \land	N/A	
7	0.40.0	Applied horizontal force (N) :	WSET AVSE		
	8.10.6	Thermoplastic temperature stability (°C) :		N/A	
	8.11	Mounting means for rack mounted equipment	X	N/A	



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/	Clause	Requirement – Test	Result – Remark	Verdict	
ſ			X		
	8.11.1	General	\land	N/A	
	8.11.2	Product Classification		N/A	
	8.11.3	Mechanical strength test, variable N :		N/A	
	8.11.4	Mechanical strength test 250N, including end stops		N/A	1
	8.12	Telescoping or rod antennas		N/A	5
	WSET	Button/Ball diameter (mm) :	WSET	W5E	7

	9	Thermal burn injury	XX	Р	
	9.2	Thermal energy source classifications	All accessible surfaces are	Р	
	\searrow		classified as TS1, see appended table 5.4.1.4, 6.3.2, 9.0, B.2.6		
	9.3	Safeguard against thermal energy sources	See above.	Р	
	9.4 75 /	Requirements for safeguards	WSLT	P'5	. 1
/	9.4.1	Equipment safeguard	Enclosure temperatures do not	Р	
1			exceed TS1 limits.		
C T	9.4.2	Instructional safeguard :	WSET WSET	N/A	

	10	RADIATION	\times	Р	
	10.2	Radiation energy source classification	RS1: The LED only used for	Р	
	W5ET	WSET WSET	indicating, which is considered	W5C	
/			as exempt group according to		
		XX	EN 62471		
_	10.2.1	General classification		N/A	
<u>C</u> T	10.3	Protection against laser radiation	No laser radiation	N/A	
	\sim	Laser radiation that exists equipment:			1
	\langle	Normal, abnormal, single-fault :		N/A	
	WEFT	Instructional safeguard :	THE PT	TWE T	
/		Tool :			
(10.4	Protection against visible, infrared, and UV radiation	No protection needed for RS1	N/A	
1			indicating LED.		
C 7	10.4.1	General 7 WSC7	WSET WSE	N/A	
	10.4.1.a)	RS3 for Ordinary and instructed persons :		N/A	1
	10.4.1.b)	RS3 accessible to a skilled person :	X	N/A	



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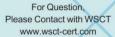
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	WIEFT	EN62368-1	WEET	AVIE	
/	Clause	Requirement – Test	Result – Remark	Verdict	7
		Personal safeguard (PPE) instructional safeguard :	ХХ		
1	10.4.1.c)	Equipment visible, IR, UV does not exceed RS1 :		N/A	
97	10.4.1.d)	Normal, abnormal, single-fault conditions :	W366	N/A	-
	10.4.1.e)	Enclosure material employed as safeguard is		N/A	1
	\sim	opaque :	\sim		-
	10.4.1.f)	UV attenuation : WSC7	WSCT	N/A s	7
/	10.4.1.g)	Materials resistant to degradation UV :		N/A	
	10.4.1.h)	Enclosure containment of optical radiation :	XX	N/A	
1	10.4.1.i)	Exempt Group under normal operating conditions :		N/A	
[7	10.4.2	Instructional safeguard :		N/A	
	10.5	Protection against x-radiation		N/A	1
	10.5.1	X- radiation energy source that exists equipment :	\wedge	N/A	
		Normal, abnormal, single fault conditions		N/A	-
-		Equipment safeguards :		N/A	7
		Instructional safeguard for skilled person :	\mathbf{X}	N/A	
1	10.5.3	Most unfavourable supply voltage to give maximum			
C7		radiation : 7°	WSCT WSC		
		Abnormal and single-fault condition :		N/A	
	X	Maximum radiation (pA/kg) :	X	N/A	
	10.6	Protection against acoustic energy sources	No such equipment	N/A	
_	10.6.1	General	WSET	N/A	9
/	10.6.2	Classification	\sim \sim	N/A	
1		Acoustic output, dB(A) :	\land \land	N/A	
6 7	~	Output voltage, unweighted r.m.s. :		N/A	
-	10.6.4	Protection of persons		N/A	
		Instructional safeguards :	X	N/A	
		Equipment safeguard prevent ordinary person to		-/	
	WSET.	[°] RS2: <u>W5C7</u> [°]	WSET	W5	
/		Means to actively inform user of increase sound	\sim		
		pressure :	\mathbf{X} \mathbf{X}		
		Equipment safeguard prevent ordinary person to	WSET WSE		
57		RS2:541			
	10.6.5	Requirements for listening devices (headphones,		N/A	1
		earphones, etc.)			
	certification &	WSET WSET	WSET	W5	3
12	Con e			/	



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AVEL
Verdict
N/A
N/A
/
N/A
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1	В	NORMAL OPERATING CONDITION TESTS, ABNOR	MAL OPERATING CONDITION	Р	l
7		TESTS AND SINGLE FAULT CONDITION TESTS			
	B.2	Normal Operating Conditions	See the following details.	Р	/
	B.2.1	General requirements :	(See Test Item Particulars and	Р	
	<u>AWSET</u>	WSET WSET	appended test tables)		.7
		Audio Amplifiers and equipment with audio amplifiers :	XX	N/A	
	B.2.3	Supply voltage and tolerances	hard hard	N/A	
	B.2.5	Input test :	(See appended table B.2.5)	Р	
	B.3	Simulated abnormal operating conditions	\mathbf{X}	Р	
	B.3.1	General requirements :	(See appended table B.3)	Р	
	B.3.25 <i>[</i> 7	Covering of ventilation openings	No ventilation openings	N/A 5	57
/			provided.		
1	B.3.3	D.C. mains polarity test	\land	N/A	
.7	B.3.4	Setting of voltage selector : WSCT	No setting of voltage selector	N/A	
			within the EUT		/
	B.3.5	Maximum load at output terminals :	X	Р	
	B.3.6	Reverse battery polarity		N/A	
-	B.3.7	Abnormal operating conditions as specified in Clause	WSLT	N/A	7
/		E.2.	\sim		
1	B.3.8	Safeguards functional during and after abnormal	All safeguards remained	Р	
7		operating conditions	effectively.		
	B.4	Simulated single fault conditions		Р	
	B.4.2	Temperature controlling device open or	(See appended table B.4)	N/A	
					1



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Carbon-arc light-exposure apparatus

Xenon-arc light exposure apparatus

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	\wedge		www	v.wsct-cert.com	
	Aurer	EN62368-1	WILTER .	And	-7
/	Clause	Requirement – Test	Result – Remark	Verdict	
		short-circuited :	XX]
H	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	See the following details.	Р	
	B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	PV5	57
\langle	B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р	
7	B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A	
	B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		N/A	
	B.4.65C7	Short circuit or disconnect of passive components	(See appended table B.3 &B.4)	P'5	57
	B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation	N/A	
			or intermittent operation		
	B.4.8	Class 1 and Class 2 energy sources within limits	No change to circuits classified	Р	
	W5ET	during and after single fault conditions	in 5.3 W5CT	W5	57
/	B.4.9	Battery charging under single fault conditions :		N/A	
		<u> </u>	<u> </u>		_
	С	UV RADIATION	hard hard	N/A	
- /	C.1	Protection of materials in equipment from UV radiation		N/A	
	C.1.2	Requirements	X	N/A	
	C.1.3	Test method	WELT	N/A	74
1	C.2	UV light conditioning test		N/A	
	C.2.1	Test apparatus	X X	N/A	
1	C.2.2	Mounting of test samples		N/A	



C.2.3

C.2.4

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	AVISION	EN62368-1	WEFT	Aures
/	Clause	Requirement – Test	Result – Remark	Verdict
	D	TEST GENERATORS	- X X	N/A
	D.1	Impulse test generators		N/A
	D.2	Antenna interface test generator		N/A
	D.3	Electronic pulse generator		N/A
	FWSET	TEST CONDITIONS FOR EQUIPMENT CONTAINING	AUDIO AMPLIFIERS	N/A 5

E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V) :	X X	
	Rated load impedance (Ω) :		
E.2	Audio amplifier abnormal operating conditions		N/A

				1
	F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INS	TRUCTIONAL SAFEGUARDS	Р
	F	General requirements	See the following details.	- WSI
/		Instructions – Language :	English	
1	F.2	Letter symbols and graphical symbols	See the following details.	Р
[7	F.2.1	Letter symbols according to IEC60027-1	WSET WSET	Р
	F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
	F.3	Equipment markings	X	Р
	F.3.1	Equipment marking locations	Equipment marking is located on	P W5
/			the exterior surface and is easily visible.	
	F.3.2	Equipment identification markings	See the following details.	Р
57	F.3.2.1	Manufacturer identification :	See copy of marking plate.	-
	F.3.2.2	Model identification :	See copy of marking plate.	>
	F.3.3	Equipment rating markings	See the following details.	Pw/s
/	F.3.3.1	Equipment with direct connection to mains		N/A
	F.3.3.2	Equipment without direct connection to mains	XX	
1	F.3.3.3	Nature of supply voltage :		
[7	F.3.3.4	Rated voltage :	WSU	<u> </u>
	F.3.3.4	Rated frequency :		
	F.3.3.6	Rated current or rated power :		/



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		EN62368-1	WEFT	Aure	
/	Clause	Requirement – Test	Result – Remark	Verdict	7
	F.3.3.7	Equipment with multiple supply connections	\mathbf{X}	N/A	
	F.3.4	Voltage setting device		N/A	
-	F.3.5	Terminals and operating devices		N/A	
	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 :	WSET	N/A 5	3
/	F.3.5.4	Replacement battery identification marking :		N/A	
	F.3.5.5	Terminal marking location	\times \times	N/A	
	F.3.6	Equipment markings related to equipment		N/A	
	5004	classification			
	F.3.6.1	Class I Equipment		N/A	
	F.3.6.1.1	Protective earthing conductor terminal		N/A	
	F.3.6.1.2	Neutral conductor terminal	WSET	N/A	3
/	F.3.6.1.3	Protective bonding conductor terminals		N/A	
	F.3.6.2	Class II equipment (IEC60417-5172)	XX	N/A	
1	F.3.6.2.1	Class II equipment with or without functional earth		N/A	
.7	F.3.6.2.2	Class II equipment with functional earth terminal	WSET WSET	N/A	
		marking			/
	F.3.7	Equipment IP rating marking :		X	
	F.3.8	External power supply output marking		N/A	-
7	F.3.9	Durability, legibility and permanence of marking	See the following details.	P'57	7
	F.3.10	Test for permanence of markings	The label was subjected to the	Р	
			permanence of marking test, 15		
.7	Δ	AWSET AWSET	sec. for water and 15 sec. for		
			petroleum spirit. After each test,		
		X	the marking remained legible.	X	
	F.4	Instructions		Р	
-	ZWSLI	a) Equipment for use in locations where children not	WSL	N/A S	47
/		likely to be present - marking			
1		b) Instructions given for installation or initial use	Relevant safety caution texts	Р	
77		WSET WSET	and installation instruction are		
			available.		
	\mathbf{X}	c) Equipment intended to be fastened in place	X	N/A	C



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	Autor	EN62368-1	THE PT	harde
/	Clause	Requirement – Test	Result – Remark	Verdict
		d) Equipment intended for use only in restricted	X X	N/A
		access area		
		e) Audio equipment terminals classified as ES3 and		N/A
	\sim	other equipment with terminals marked in accordance	\sim	
	\wedge	F.3.6.1		\wedge
	WSET	f) Protective earthing employed as safeguard	WSFT	N/A
/		g) Protective earthing conductor current exceeding		N/A
		ES 2 limits	\times \times	
		h) Symbols used on equipment		N/A
[]	Δ	i) Permanently connected equipment not provided		N/A
		with all-pole mains switch		
	X	j) Replaceable components or modules providing		N/A
		safeguard function		-
	F.5	Instructional safeguards	WSL	P 57
/		Where "instructional safeguard" is referenced in the		Р
1		test report it specifies the required elements, location	\wedge \wedge	
2 7		of marking and/or instruction	WSET WSET	

	G	COMPONENTS	X	Р	\langle
	G.1	Switches		N/A	
	G.1.1 <i>5<i>CT</i></i>	General requirements 7 W5L7	No switch used 5C7	N/A 5	đ
/	G.1.2	Ratings, endurance, spacing, maximum load		N/A	
$\langle \rangle$	G.2	Relays	\times \times	N/A	
	G.2.1	General requirements	No relays used	N/A	
L /	G.2.2	Overload test	WSL WSL	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.37577	Protection Devices	WSCT	N/A	d
1	G.3.1	Thermal cut-offs		N/A	
$\langle \rangle$	G.3.1.1a)	Thermal cut-outs separately approved according to	XX	N/A	
1	&b)	IEC 60730 with conditions indicated in a) & b)		1	
[7	G.3.1.1c)	Thermal cut-outs tested as part of the equipment as	W5CT W5CT	N/A	
		indicated in c)			1
	G.3.1.2	Thermal cut-off connections maintained and secure	X	N/A	5



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/	Clause	Requirement – Test	Result – Remark	Verdict	- 1
	G.3.2	Thermal links	XX	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	
	\sim	Aging hours (H) :		\	/
	\land	Single Fault Condition :		/	
	WSET	Test Voltage (V) and Insulation Resistance (Ω):	WSET	775	7
/	G.3.3	PTC Thermistors		N/A	
	G.3.4	Overcurrent protection devices	XX	N/A	
	G.3.5	Safeguards components not mentioned in G.3.1 to G.3.	.5	N/A	
.7	G.3.5.1	Non-resettable devices suitably rated and marking		N/A	
		provided			/
	G.3.5.2	Single faults conditions :	\land	N/A	
	G.4	Connectors	ATTENT A	N/A	3
7	G.4.1	Spacings		N/A	
	G.4.2	Mains connector configuration :	\times \times	N/A	
1	G.4.3	Plug is shaped that insertion into mains socket-outlets		N/A	
57		or appliance coupler is unlikely	WSET WSET		
	G.5	Wound Components		N/A	
	G.5.1	Wire insulation in wound components	X	N/A	
	G.5.1.2 a)	Two wires in contact inside wound component, angle		N/A	
_	AWSLI	between 45° and 90°	WSET	V	- 1
/	G.5.1.2 b)	Construction subject to routine testing	\vee \vee	N/A	
1	G.5.2	Endurance test on wound components	$\wedge \wedge$	N/A	
7	G.5.2.1	General test requirements	WSET WSE	N/A	
	G.5.2.2	Heat run test		N/A	
	X	Time (s) :	X	>	
		Temperature (°C):		/	
_	G.5.2.3	Wound Components supplied by mains AWSET	WSET	N/A 5	4
/	G.5.3	Transformers		N/A	
1	G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2,	\land \land	N/A	
		and/or IEC62368-1) :	wister Aust		
		Position :			
	0.5.0	Method of protection :	X		C
	G.5.3.2	Insulation		N/A	
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	WEIT	EN62368-1	WEFT	AVE	
/	Clause	Requirement – Test	Result – Remark	Verdict	
		Protection from displacement of windings :	XX		
1	G.5.3.3	Overload test :		N/A	
.7	G.5.3.3.1	Test conditions	1414	N/A	
	G.5.3.3.2	Winding Temperatures testing in the unit		N/A	/
	G.5.3.3.3	Winding Temperatures - Alternative test method		N/A	-
	G.5.4	Motors WSCT WSCT	WSLT	N/A S	3
/	G.5.4.1	General requirements		N/A	
		Position :	XX		
	G.5.4.2	Test conditions		N/A	
.7	G.5.4.3	Running overload test		N/A	
	G.5.4.4	Locked-rotor overload test		N/A	1
	X	Test duration (days) :	\wedge	/	
	G.5.4.5	Running overload test for d.c. motors in secondary	WSET	N/A	
-		circuits			7
	G.5.4.5.2	Tested in the unit	\vee \vee	N/A	
1		Electric strength test (V) :			
.7	G.5.4.5.3	Tested on the Bench - Alternative test method; test	WSET WSET	N/A	
		time (h) :			
	X	Electric strength test (V) :	X	>	
	G.5.4.6	Locked-rotor overload test for d.c. motors in		N/A	
	_W5ET	secondary circuits 507 WS07	WSET [®]	WSI	9
/	G.5.4.6.2	Tested in the unit		N/A	
		Maximum Temperature :	\land \land	N/A	
		Electric strength test (V) :	horas horas	N/A	
- //	G.5.4.6.3	Tested on the bench - Alternative test method; test		N/A	
		time (h) :	X		
		Electric strength test (V) :		N/A	
	G.5.4.7	Motors with capacitors 7°	WSET	N/A 5	
/	G.5.4.8	Three-phase motors		N/A	
	G.5.4.9	Series motors	\mathbf{X} \mathbf{X}	N/A	
		Operating voltage :			
	G.6	Wire Insulation 454	WSL	N/A	
	G.6.1	General		N/A	1
	G.6.2	Solvent-based enamel wiring insulation		N/A	
	certification &	WSET WSET	W5CT	W5	2
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		EN62368-1	WEFT	hure	
/	Clause	Requirement – Test	Result – Remark	Verdict	
	G.7	Mains supply cords	XX	N/A	
	G.7.1	General requirements		N/A	
-		Type :		-	
		Rated current (A) :		\	1
		Cross-sectional area (mm ²), (AWG) :		-/	
	G.7.25 <i>[</i> 7	Compliance and test method	WSET	N/A 5	
/	G.7.3	Cord anchorages and strain relief for non-detachable		N/A	
		power supply cords	XX		
_	G.7.3.2	Cord strain relief		N/A	
57	G.7.3.2.1	Requirements		N/A	
		Strain relief test force (N) :			1
	G.7.3.2.2	Strain relief mechanism failure	\land	N/A	
	G.7.3.2.3	Cord sheath or jacket position, distance (mm) :	WSFT	AVIS I	
/	G.7.3.2.4	Strain relief comprised of polymeric material		N/A	
	G.7.4	Cord Entry :	\times \times	N/A	
1	G.7.5	Non-detachable cord bend protection		N/A	
[7	G.7.5.1	Requirements WSLT	WSCT [®] WSC	N/A	
	G.7.5.2	Mass (g) :			/
	X	Diameter (m) :	X	X	
		Temperature (°C) :		-	
-	G.7.6	Supply wiring space		N/A	
	G.7.6.2	Stranded wire	\vee \vee	N/A	
/	G.7.6.2.1	Test with 8 mm strand	\land \land	N/A	
CT	G.8	Varistors 7° WSCT°	WSET WSE	N/A	
	G.8.1	General requirements		N/A	
	G.8.2	Safeguard against shock	X	N/A	
	G.8.3	Safeguard against fire		N/A	
_	G.8.3.2	Varistor overload test : W5LT	WSET	N/A 5	
/	G.8.3.3	Temporary overvoltage :	\vee	N/A	
1	G.9	Integrated Circuit (IC) Current Limiters	\wedge \wedge	N/A	
67	G.9.1 a)	Manufacturer defines limit at max. 5A.	WSET WSE	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 :	X	>	1

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	Autor	EN62368-1	AUTO TO	hurs	
7	Clause	Requirement – Test	Result – Remark	Verdict	
	G.9.1 d)	IC limiter output current (max. 5A) :	ХХ		
	G.9.1 e)	Manufacturers' defined drift			
	G.9.2	Test Program 1		N/A	
	G.9.3	Test Program 2		N/A	/
	G.9.4	Test Program 3		N/A	
	G.10 5 2 7	Resistors wscr	WSET	N/A S	7
/	G.10.1	General requirements		N/A	
	G.10.2	Resistor test	XX	N/A	
1	G.10.3	Test for resistors serving as safeguards between the		N/A	
1		mains and an external circuit consisting of a coaxial		-	-
		cable			/
	G.10.3.1	General requirements		N/A	-
	G.10.3.2	Voltage surge test	WEET	N/A	3
/	G.10.3.3	Impulse test		N/A	
	G.11	Capacitor and RC units	<u> </u>	N/A	
1	G.11.1	General requirements		N/A	
7	G.11.2	Conditioning of capacitors and RC units	WSET WSET	N/A	
	G.11.3	Rules for selecting capacitors		N/A	/
	G.12	Optocouplers	X	N/A	
	WSET	Optocouplers comply with IEC 60747-5-5:2007	WSET	N/A	
/		Spacing or Electric Strength Test (specify option and			
/		test results) :	\times \times		
1	C 1	Type test voltage Vini :			
.7		Routine test voltage, Vini,b	WSET WSET	<u> </u>	
	G.13	Printed boards		P	/
	G.13.1	General requirements	See the following details.	P	
	G.13.2	Uncoated printed boards	Only need to comply with	P W5	
/			functional insulation, see only		
			B.4.4.		
	G.13.3	Coated printed boards	No coated printed board	N/A	
			provided within the equipment.	1	
	G.13.4	Insulation between conductors on the same inner	X	N/A	1



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Clause	Requirement – Test	Result – Remark	Verdict
	surface	XX	
	Compliance with cemented joint requirements (Specify construction) :	wser wser	
G.13.5	Insulation between conductors on different surfaces		N/A
\square	Distance through insulation :		N/A
WSET	Number of insulation layers (pcs) : W5C7	WSET	W5
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	XX	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	\wedge	N/A
G.14.1	Requirements :	Autor Cra	N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements	\vee	N/A
G.15.2	Requirements	\wedge	N/A
G.15.3	Compliance and test methods	WSET WSET	N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test	X	N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test	WSET	N/A
G.15.3.5	Thermal cycling test	\bigvee	N/A
G.15.3.6	Force test	\mathbf{X}	N/A
G.15.4	Compliance	WSET WSE	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120	No such ICX provided within the	N/A
	hours	equipment.	
b) <i>W5LT</i>	Impulse test using circuit 2 with Uc = to transient	WSLT	N/A 5
	voltage :		
C1)	Application of ac voltage at 110% of rated voltage for	ХХ	N/A
	2.5 minutes		
C2)	Test voltage :		



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/	Clause	Requirement – Test	Result – Remark	Verdict	
	D1)	10,000 cycles on and off using capacitor with smallest	X X	N/A	
7		capacitance resistor with largest resistance specified by manufacturer	WSET WSET		
	D2)	Capacitance :		\	/
	D3)	Resistance :		/	
	WSET	WSCT WSCT	WSET	WS	ð
/	н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A	
	H.1	General	XX	N/A	
	H.2	Method A		N/A	
.7	H.3	Method B		N/A	
	H.3.1	Ringing signal		N/A	1
	H.3.1.1	Frequency (Hz) :		/	
	H.3.1.2	Voltage (V) :	ALCE CT.	And	
-	H.3.1.3	Cadence; time (s) and voltage (V) :			7
/	H.3.1.4	Single fault current (mA): :	\vee \vee		
1	H.3.2	Tripping device and monitoring voltage :	\land	N/A	
7	H.3.2.1	Conditions for use of a tripping device or a monitoring	WSET WSET	N/A	
		voltage complied with			
	H.3.2.2	Tripping device	X	N/A	
	H.3.2.3	Monitoring voltage (V) :		-	
_	WSLT	WSU WSU	WSLI	_ws	9
/	J	INSULATED WINDING WIRES FOR USE WITHOUT I	NTERLEAVED INSULATION	N/A	
1		General requirements	\land \land	N/A	
77	~	WSFT WSFT	WSFT WSF		
- /	К	SAFETY INTERLOCKS		N/A	
	K.1	General requirements	No safety interlock provided	N/A	
			within the equipment.		
	K.2 V5 []	Components of safety interlock safeguard mechanism	WSET	N/A 5	
1	K.3	Inadvertent change of operating mode		N/A	
	K.4	Interlock safeguard override	XX	N/A	
-	K.5	Fail-safe		N/A	
577		Compliance :		N/A	
	K.6	Mechanically operated safety interlocks		N/A	/

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Endurance requirement

K.6.1

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/	Clause	Requirement – Test	Result – Remark	Verdict
	K.6.2	Compliance and Test method :	IX X	N/A
	K.7	Interlock circuit isolation		N/A
	K.7.1	Separation distance for contact gaps & interlock		N/A
		circuit elements (type and circuit location) :		
	K.7.2	Overload test, Current (A) :		N/A
	K.7.3 5 7 7	Endurance test WSCT	WSET	N/A 5
1	K.7.4	Electric strength test :		N/A

1	L	DISCONNECT DEVICES		N/A	
Γ	L.1	General requirements		N/A	
	L.2	Permanently connected equipment		N/A	
	L.3	Parts that remain energized	\sim	N/A	-
	L.4	Single phase equipment	WIE CTC	N/A	
/	L.5	Three-phase equipment		N/A	2
	L.6	Switches as disconnect devices	\sim \sim	N/A	
	L.7	Plugs as disconnect devices		N/A	
7	L.8	Multiple power sources	WSET WSET	N/A	

	M X	EQUIPMENT CONTAINING BATTERIES AND THEIR	PROTECTION CIRCUITS	N/A	X
	M.1	General requirements	No battery used	N/A	
_	M.2 5L7	Safety of batteries and their cells	WSLT	N/A	74
/	M.2.1	Requirements		N/A	
	M.2.2	Compliance and test method (identify method) :	\land \land	N/A	
7	M.3	Protection circuits	war huge	N/A	
-	M.3.1	Requirements		N/A	
	M.3.2	Tests	\sim	N/A	X
	<	- Overcharging of a rechargeable battery		N/A	
	WSET	- Unintentional charging of a non-rechargeable	WSET N	N/A	5/5
1		battery			
		- Reverse charging of a rechargeable battery	\times \times	N/A	
1		- Excessive discharging rate for any battery		N/A	
7	M.3.3	Compliance :	WSLI WSL	N/A	
	\sim				



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	Auger-	EN62368-1	WEFT	AVE	
/	Clause	Requirement – Test	Result – Remark	Verdict	7
	M.4	Additional safeguards for equipment containing	XX	N/A	
_		secondary lithium battery			
7	M.4.1	General	WATA AWATA	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 :	WSET	W5	3
/	M.4.2.2 b)	Single faults in charging circuitry :			
	M.4.3	Fire Enclosure	\times \times	N/A	
	M.4.4	Endurance of equipment containing a secondary		N/A	
7		lithium battery			
	M.4.4.2	Preparation		N/A	/
	M.4.4.3	Drop and charge/discharge function tests		N/A	
	Augen	Drop	Autor and a second	N/A	2
/		Charge		N/A	2
		Discharge	\times \times	N/A	
1	M.4.4.4	Charge-discharge cycle test	\land	N/A	
7	M.4.4.5	Result of charge-discharge cycle test	WSET WSET	N/A	
	M.5	Risk of burn due to short circuit during carrying		N/A	/
	M.5.1	Requirement	X	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	WSL	N/A Z	5
/		effects of electric current	\sim		
1	M.6.1	Short circuits	$ \land \land \land$	N/A	
.7	M.6.1.1	General requirements	WEET AVEE	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	X	N/A	
	1400	method) :		NU	
_	M.6.2527	Leakage current (mA) : W577°		N/A 5	5
/	M.7	Risk of explosion from lead acid and NiCd batteries	\vee	N/A	
1	M.7.1	Ventilation preventing explosive gas concentration	\wedge	N/A	
-77	M.7.2	Compliance and test method	WIST AWAST	N/A	
	M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A	
	M.8.1	General requirements	X	N/A	(
	10.1			IN/A	

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/	Clause	Requirement – Test	Result – Remark	Verdict
I	M.8.2	Test method	XX	N/A
	101.0.2			N/A
	M.8.2.1	General requirements		N/A
	M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s) :		-
	M.8.2.3	Correction factors :		\
	M.8.2.4	Calculation of distance d (mm) :		/
	M.975CT	Preventing electrolyte spillage	WSET	N/A s
/	M.9.1	Protection from electrolyte spillage		N/A
	M.9.2	Tray for preventing electrolyte spillage	XX	N/A
	M.10	Instructions to prevent reasonably foreseeable		N/A
(misuse (Determination of compliance: inspection,		
		data review; or abnormal testing) :		

WEET	ELECTROCHEMICAL POTENTIALS		
WSL1	Metal(s) used :	Pollution degree considered	

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied :	

	P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJ INTERNAL LIQUIDS	ECTS AND SPILLAGE OF	N/A	
_	P.1V5C7	General requirements	WSET	N/A 5	2
/	P.2.2	Safeguards against entry of foreign object	\bigvee	N/A	
		Location and Dimensions (mm) :	\land \land		
FT	P.2.3	Safeguard against the consequences of entry of	WSET WSE	N/A	
- /		foreign object			
	P.2.3.1	Safeguards against the entry of a foreign object		N/A	1
		Openings in transportable equipment		N/A	
	WSET	Transportable equipment with metalized plastic parts :	WSET	N/A	
/	P.2.3.2	Openings in transportable equipment in relation to		N/A	
$\langle \rangle$		metallized parts of a barrier or enclosure			
_		(identification of supplementary safeguard) :			
<u> </u>	P.3	Safeguards against spillage of internal liquids	WSLT AWSL	N/A	
	P.3.1	General requirements		N/A	1
	P.3.2	Determination of spillage consequences		N/A	

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Clause	Requirement – Test	Result – Remark	Verdict
P.3.3	Spillage safeguards	$\boldsymbol{\lambda}$	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) :		/
WSET	Tr (°C) : W5ET W5ET	WSET	+15/
	Ta (°C) :		
P.4.2 b)	Abrasion testing :	XX	N/A
P.4.2 c)	Mechanical strength testing :		N/A

	Q	CIRCUITS INTENDED FOR INTERCONNECTION WIT	TH BUILDING WIRING	Р	/
	Q.1	Limited power sources	See appended table Annex Q.1	Р	
	Q.1.1 a)	Inherently limited output	ATTENDED IN	N/A	2
/	Q.1.1 b)	Impedance limited output		Р	7
/		- Regulating network limited output under normal	A regulating network limits the	Р	
1		operating and simulated single fault condition	output in compliance with table		
7		WSET WSET	Q.1 both under normal operating		
			conditions and after any single		
	X	XXX	fault		
	Q.1.1 c)	Overcurrent protective device limited output		N/A	
	Q.1.1 d)	IC current limiter complying with G.9	WSLT	N/A 5/	
/	Q.1.2	Compliance and test method	See appended table Annex Q.1	Р	
	Q.2	Test for external circuits - paired conductor cable	No such circuit for connection to	N/A	
-			the EUT		
-		Maximum output current (A) :		-	
		Current limiting method :			/
					5

RWSCT	LIMITED SHORT CIRCUIT TEST	WSET	N/A 5
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device	XX	N/A
	and circuit		
R.3	Test method Supply voltage (V) and short-circuit	WSET WSET	N/A
\searrow	current (A)). :		
F	R.1 R.2	R.1 General requirements R.2 Determination of the overcurrent protective device and circuit R.3 Test method Supply voltage (V) and short-circuit	R.1 General requirements R.2 Determination of the overcurrent protective device and circuit R.3 Test method Supply voltage (V) and short-circuit

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/	Clause	Requirement – Test	Result – Remark	Verdict	
$\langle $	S	TESTS FOR RESISTANCE TO HEAT AND FIRE	XX	N/A	
	S.1	Flammability test for fire enclosures and fire barrier	wstr wst	N/A	
		materials of equipment where the steady state power			
	\mathbf{X}	does not exceed 4 000 W	X		
		Samples, material :		/	
	WSET	Wall thickness (mm) : 7	WSCT	W5/	Ż
/		Conditioning (°C) :	\sim	 NI/A	
\langle		Test flame according to IEC 60695-11-5 with conditions as set out	XX	N/A	
F T		- Material not consumed completely		N/A	
		- Material extinguishes within 30s		N/A N/A	
	-X	No burning of layer or wrapping tissue	~	N/A	
	S.2	Flammability test for fire enclosure and fire barrier		N/A	
	ZWSET	integrity WSCT	WSET	_WSI	Ż
		Samples, material :	\vee \vee		
		Wall thickness (mm) :	\wedge		
ET		Conditioning (°C) :	WSCT WSC	- -	
		Test flame according to IEC 60695-11-5 with		N/A	
	X	conditions as set out	X		
		Test specimen does not show any additional hole		N/A	
	S.3V5L7	Flammability test for the bottom of a fire enclosure	WSLT	N/A 57	97
		Samples, material :	\checkmark		
1		Wall thickness (mm) :	$\wedge \wedge$		
<u>[</u> 7		Cheesecloth did not ignite	WSET WSE	N/A	
	S.4 S.5	Flammability classification of materials Flammability test for fire enclosures and fire barrier		N/A N/A	
	3.5	materials of equipment where the steady state power	X		
	And	does not exceed 4 000 W	NUCL CT.	hur	
1		Samples, material :			7
<		Wall thickness (mm) :	\times \times		
1		Conditioning (test condition), (°C) :	\land		
ET		Test flame according to IEC 60695-11-20 with	WSET WSE	N/A	
		conditions as set out			1
		After every test specimen was not consumed		N/A	5
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Report No.: WSCT-IT200400062A Issued: 07 April 2020 Revised: None

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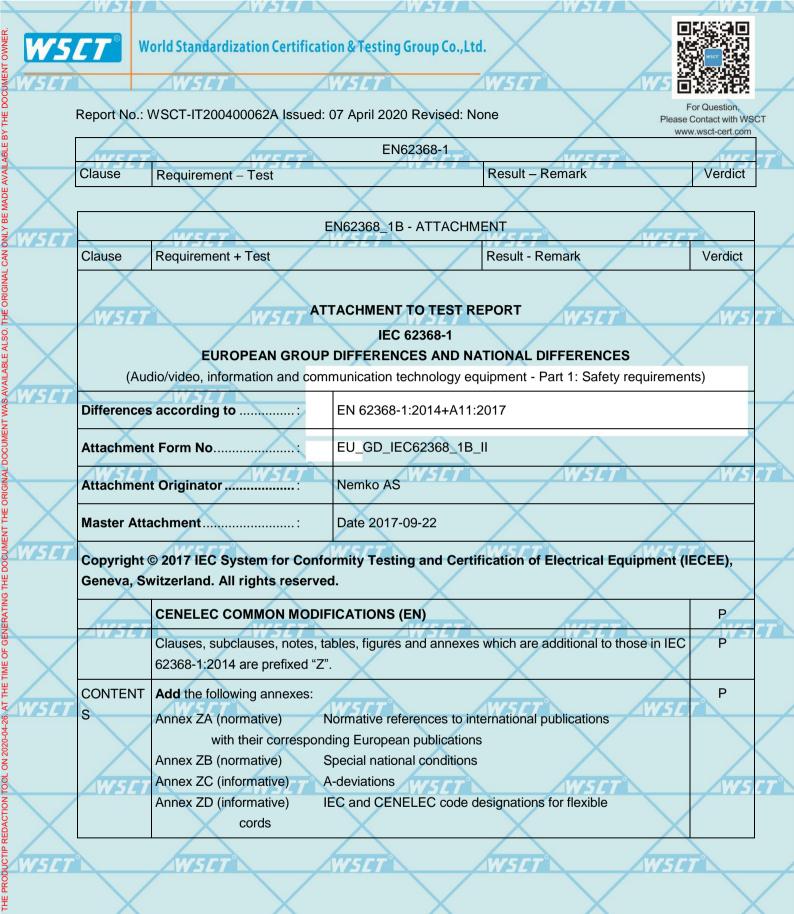
			WWW	wsct-cert.com	
	WISTER	EN62368-1	THE PERSON AND AND AND AND AND AND AND AND AND AN	hurs	
/	Clause	Requirement – Test	Result – Remark	Verdict	
			VV		
		completely	\wedge \wedge		
7		After fifth flame application, flame extinguished within	WSET WSET	N/A	
		1 min			
					1
	Т	MECHANICAL STRENGTH TESTS		P	
	TWSET	General requirements 7°	WSET	PV5	
/	Т.2	Steady force test, 10 N :		N/A	
	T.3	Steady force test, 30 N :	\times \times	N/A	
1	Т.4	Steady force test, 100 N :	(See appended table T.4)	Р	
.7	T.5	Steady force test, 250 N :		N/A	
	Т.6	Enclosure impact test		N/A	/
		Fall test		N/A	
	Augen	Swing test	Augente and	N/A	
/	T.7	Drop test :	(See appended table T.7)	Р	
	T.8	Stress relief test :	(See appended table T.8)	Р	
1	Т.9	Impact Test (glass)		N/A	
57	T.9.1	General requirements	WSET WSET	N/A	
	T.9.2	Impact test and compliance		N/A	
	X	Impact energy (J) :	X	X	
		Height (m) :			
_	T.10 567	Glass fragmentation test :	WSLT	N/A	
/	T.11	Test for telescoping or rod antennas	\sim	N/A	
1		Torque value (Nm) :	\wedge \wedge		
77	2	AUGERT AUGERT	were horer	-	
		MECHANICAL STRENGTH OF CATHORE DAY THR	TO (ODT) AND DROTFOTION	NI/A	6

U	MECHANICAL STRENGTH OF CATHODE RAY TUB	ES (CRT) AND PROTECTION	N/A
	AGAINST THE EFECTS OF IMPLOSION		
U.1	General requirements	No CRT used	N/A
U.2 V5 [T	Compliance and test method	WSET	N/A 5
	for non-intrinsically protected CRTs		
U.3	Protective Screen :	XX	N/A

<u>[</u> 7	V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)	P	
	V.1	Accessible parts of equipment	Р	/
	V.2	Accessible part criterion	Р	

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Report No.:			_					
Clause	Requirement	– Test		EN62368-1	Result – Re	mark		Verdict
		"country" notes		ence document (IEC 62368-1:		/	P
	0.2.1	Note	<u>4W5CT</u>	Note 3	4.1.15	Note	<u>wsci</u> 1	
X			1				-	
WSET	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c		/ws
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	\mathbf{X}	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	1	
\mathbf{X}	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4		
wsci	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		ws
		time loopditic		70				P
	For special na	ational conditic	ons, see Ann	IEX ZB.	\wedge			۲
4	A dat the follow	i a natar						D
1	Add the follow		wscr	s in electrical	W5LT		wsc	Р
	NOTE Z1 Th	ne use of certai		es in electrical thin the EU: see			WSE	P
	NOTE Z1 Th and electronic	ne use of certai					W5E	P
	NOTE Z1 Th and electronic	ne use of certai					w <i>isi</i>	P
1	NOTE Z1 Th and electronic	ne use of certai				W5LT	W56	P
	NOTE Z1 Th and electronic Directive 201	ne use of certai c equipment is i 1/65/EU.		thin the EU: see			WSE WSE	
1 WSU	NOTE Z1 Th and electronic Directive 201	ne use of certai				WSLT WSLT	WSE WSE	P
A WISTER	NOTE Z1 Th and electronic Directive 201	ne use of certai c equipment is i 1/65/EU.		thin the EU: see		WSLIT WSLT	WSE WSE	
	NOTE Z1 Th and electronic Directive 2017	ne use of certai c equipment is in 1/65/EU.	restricted wit	thin the EU: see	WISLET		WISIE WISIE	WS
	NOTE Z1 Th and electronic Directive 2017	ne use of certai c equipment is i 1/65/EU.	visci visci visci	thin the EU: see	WSET	WSET WSET		
Certification &	NOTE Z1 Th and electronic Directive 2017	ne use of certai	wscr	thin the EU: see	WSCT [®]	WSCT°	W5C	WS WS



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AUGET	EN62368-1	And the second s	Aure
Clause	Requirement – Test	Result – Remark	Verdict
4.Z1	Add the following new subclause after 4.9:	XX	N/A
4.21			
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains ,	WSET WSE	
	protective devices shall be included either as integral		
	parts of the equipment or as parts of the building	\sim	
WSET	installation, subject to the following, a), b) and c):	WSET	WS
	a) except as detailed in b) and c), protective devices		/
	necessary to comply with the requirements of B.3.1 and	\times \times	
	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,		
\wedge	r.f.i. filter and switch, short-circuit and earth fault	\sim	
WSET	protection may be provided by protective devices in the	WSET	WS
	building installation;		/
	c) it is permitted for pluggable equipment type B or	\times \times	
	permanently connected equipment, to rely on		
	dedicated overcurrent and short-circuit protection in the	WISICIT WISIC	
	building installation, provided that the means of	\sim	
	protection, e.g. fuses or circuit breakers, is fully specified		
W5ET	in the installation instructions.	WSET	W5
	If reliance is placed on protection in the building		
	installation, the installation instructions shall so state,	\times \times	
	except that for pluggable equipment type A the		
	building installation shall be regarded as providing	WSLT WSL	
	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:	No external circuits.	N/A/5
	The requirement for interconnection with external		
	circuit is in addition given in EN 50491-3:2009.	XX	
10.2.1	Add the following to ^{c)} and ^{d)} in table 39:	No such radiation from the	N/A
	For additional requirements, see 10.5.1.	equipment.	

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	AVIAT		EN62368-1	WEET	AVE	
	Clause	Requirement – Test		Result – Remark	Verdict	
\mathbf{X}	10.5.1	Add the following after the first parag		X	N/A	
<u> 1567°</u>		For RS 1 compliance is checked by n	neasurement under	WSCT° WSC		
		the following conditions: In addition to the normal operating co controls adjustable from the outside b	by hand, by any			
	ZWSLI	object such as a tool or a coin, and the				
$\mathbf{\nabla}$		adjustments or presets which are not		\sim \sim		
\land		manner, are adjusted so as to give m				
VSET		whilst maintaining an intelligible pictu				
	\backslash	end of which the measurement is ma				/
	X	NOTE Z1 Soldered joints and paint	lockings are		X	
	wset	examples of adequate locking. The dose-rate is determined by mean	ns of a radiation	WSET	ws	7
$\langle /$		monitor with an effective area of 10 c				
Х		cm from the outer surface of the appa	aratus.	ХХ		
VEFT		Moreover, the measurement shall be	made under fault	WSFT WSF		
		conditions causing an increase of the	high-voltage,			7
	\mathbf{X}	provided an intelligible picture is main	ntained for 1 h, at	X		
		the end of which the measurement is	made.			
	AW5ET	For RS1, the dose-rate shall not exce	eed 1 µSv/h taking	W5ET°	W5	[7 °
\smallsetminus		account of the background level.		\searrow		
\mathbf{X}		NOTE Z2 These values appear in D	Directive	\mathbf{X} \mathbf{X}		
VSFT		96/29/Euratom of 13 May 1996.	7	WSFT WSF		
361	10.6.1	Add the following paragraph to the er	d of the subclause:	No such x-radiation generated	N/A	7
	X	EN 71-1:2011, 4.20 and the related to	ests methods and	from the equipment.		
		measurement distances apply.	WSFT	WEFT	hard	
						5//

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		EN62368-1	with the second s	AVIE	
	Clause	Requirement – Test	Result – Remark	Verdict	
Х	10.Z1	Add the following new subclause after 10.6.5.	$\times \times$	N/A	
	10.21	10.Z1 Non-ionizing radiation from radio frequencies in			
SLI		the range 0 to 300 GHz	WSLI WSL		1
		The amount of non-ionizing radiation is regulated by	\times		
		European Council Recommendation 1999/519/EC of			
	WSET	12 July 1999 on the limitation of exposure of the	WSET [®]	W5[7°
\checkmark		general public to electromagnetic fields (0 Hz to 300			
$\overline{\mathbf{X}}$		GHz).	XX		
SFT		For intentional radiators, ICNIRP guidelines should be			
		taken into account for Limiting Exposure to			7
	X	Time-Varying Electric, Magnetic, and Electromagnetic			
		Fields (up to 300 GHz). For hand-held and			
	<u> AWSET</u>	body-mounted devices, attention is drawn to EN 50360	WSET	W5[7
\checkmark		and EN 50566			
\wedge	G.7.1	Add the following note:		N/A	
ISET		NOTE Z1 The harmonized code designations	WSET WSL		
		corresponding to the IEC cord types are given in Annex			/
		ZD.	X		
	4				

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WEFT		EN62368-1	WEIT	ANTE S
Clause	Requirement – Test		Result – Remark	Verdict
Bibliograph	Add the following sta	ndards:	\times \times	N/A
У	Add the following not	es for the standards indicated:	wser wse	
	IEC 60130-9	NOTE Harmonized as EN 6013	30-9.	
	IEC 60269-2	NOTE Harmonized as HD 6026	69-2.	
wset	IEC 60309-1	NOTE Harmonized as EN 6030	09-1. WSET	WS
	IEC 60364	NOTE some parts harmonized	I in HD 384/HD 60364 series.	
	IEC 60601-2-4	NOTE Harmonized as EN 60601	-2-4. 🗙	
	IEC 60664-5	NOTE Harmonized as EN 60664	4-5.	
	IEC 61032:1997	NOTE Harmonized as EN 61032:1	998 (not modified).	
X	IEC 61508-1	NOTE Harmonized as EN 61508	3-1.	
WSFT	IEC 61558-2-1	NOTE Harmonized as EN 61558	-2-1.	WS
211261	IEC 61558-2-4	NOTE Harmonized as EN 61558	-2-4.	
	IEC 61558-2-6	NOTE Harmonized as EN 61558	-2-6.	
~	IEC 61643-1	NOTE Harmonized as EN 61643	3-1.	
	IEC 61643-21	NOTE Harmonized as EN 61643	-21.	
\sim	IEC 61643-311	NOTE Harmonized as EN 61643-	311.	
	IEC 61643-321	NOTE Harmonized as EN 61643-	321.	
ZWSET	IEC 61643-331	NOTE Harmonized as EN 61643-	331. WSLT	AWS
ZB	ANNEX ZB, SPECIA	L NATIONAL CONDITIONS (EN)		N/A
	Bibliograph y WSC7	Bibliograph Add the following state Y Add the following not IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60309-1 IEC 60664-5 IEC 60664-5 IEC 61032:1997 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-4 IEC 61643-11 IEC 61643-311 IEC 61643-311 IEC 61643-321	ClauseRequirement – TestBibliographAdd the following standards:YAdd the following notes for the standards indicated:IEC 60130-9NOTE Harmonized as EN 6013IEC 60269-2NOTE Harmonized as HD 6026IEC 60309-1NOTE Harmonized as EN 6030IEC 60364NOTE some parts harmonizedIEC 60664-5NOTE Harmonized as EN 60664IEC 61032:1997NOTE Harmonized as EN 61032:1IEC 6158-2-1NOTE Harmonized as EN 61508IEC 61558-2-4NOTE Harmonized as EN 61558IEC 61558-2-4NOTE Harmonized as EN 61558IEC 61643-11NOTE Harmonized as EN 61643IEC 61643-21NOTE Harmonized as EN 61643IEC 61643-311NOTE Harmonized as EN 61643-IEC 61643-321NOTE Harmonized as EN 61643-IEC 61643-331NOTE Harmonized as EN 61643-	EN62368-1 Clause Requirement – Test Result – Remark Bibliograph Add the following standards: X Add the following notes for the standards indicated: X IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 6064 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 6158-2-1 NOTE Harmonized as EN 6158-2-1. IEC 6158-2-1 NOTE Harmonized as EN 61558-2-4. IEC 6158-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-31. IEC 61643-321 NOTE Harmonized as EN 61643-31. IEC 61643-331 NOTE Harmonized as EN 61643-331.

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	Clause	Requirement – Test	Result – Remark	Verdict
imes	4.1.15	Denmark, Finland, Norway and Sweden	\times \times	N/A
<u>W5CT°</u>		To the end of the subclause the following is added:	WSCT [®] WSC	
		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	WSET	WIST
		suppressors are connected between the network		/
\ge		terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	XX	
WSET	\searrow	The marking text in the applicable countries shall be as follows:		
	wset	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til 1557	WSET	wstr
Х		stikproppens jord." In Finland : "Laite on liitettävä suojakoskettimilla	\times \times	
WSET		varustettuun pistorasiaan"	WSCT WSC	
	\searrow	In Norway : "Apparatet må tilkoples jordet stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"		
	4.7.3	United Kingdom	W5CT	N/A
		To the end of the subclause the following is added:		
X		The torque test is performed using a socket-outlet	\times \times	
	S	complying with BS 1363, and the plug part shall be		
<u>W5CT</u>		assessed to the relevant clauses of BS 1363. Also see	WSET WSE	
	\sim	Annex G.4.2 of this annex		
	5.2.2.2	Denmark		N/A
	<u>AWSET</u>	After the 2nd paragraph add the following:	WSET	
X		A warning (marking safeguard) for high touch current	\times \times	
$\langle \rangle$		is required if the touch current exceeds the limits of 3,5		
WSCT		mA a.c. or 10 mA d.c.	WSET WSE	



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Clause	Requirement – Test	/	Result – Remark	Verdict
5.4.11.1	Finland and Sweden	X	No TNV circuits.	N/A
and Annex	To the end of the subclause the fol	lowing is added:		
G			WSLI	151
	For separation of the telecommunic	cation network from		
	earth the following is applicable:	\wedge	\sim	/
WSET	If this insulation is solid, including in		WSET	W5
	of a component, it shall at least cor	nsist of either		
	 two layers of thin sheet material, e 		X	X
	pass the electric strength test below	w, or		
	one layer having a distance through	gh insulation of at		
	least 0,4 mm, which shall pass the	electric strength test		
	below.	\wedge	\wedge	
AVER	If this insulation forms part of a sen	niconductor	WEET	hurs
	component (e.g. an optocoupler), the	here is no distance		
	through insulation requirement for t	he insulation	X	X
	consisting of an insulating compou	nd completely filling		
	the casing, so that clearances and		WSET N	VSET
	do not exist, if the component pas			
X	strength test in accordance with the	e compliance clause	X	
hur	below and in addition			1
WSLI	 passes the tests and inspection classes 	riteria of 5.4.8 with an	WSLT	
	electric strength test of 1,5 kV mult			\bigvee
	electric strength test of 5.4.9 shall b	be performed using	\land	\land
	1,5 kV), and	TT /	WSET N	VSET
	 is subject to routine testing for ele 	ctric strength during		
X	manufacturing, using a test voltage	of 1,5kV.	X	
	It is permitted to bridge this insulati	on with a capacitor		
<u>AWSET</u>	complying with EN 60384-14:2005,	, subclass Y2.	WSET	W5
	A capacitor classified Y3 according	to EN		\checkmark
	60384-14:2005, may bridge this ins	sulation under the		\wedge
	following conditions:	TTT .	WSET	V5/7
	 the insulation requirements are sa 	atisfied by having a		
	capacitor classified Y3 as defined b		X	

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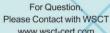
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Clause	Requirement – Test	Result – Remark	Verdict
	which in addition to the Y3 testing, is tested with an	$\times \rightarrow$	N/A
8	impulse test of 2,5 kV defined in 5.4.11;	WSET WS	
	• the additional testing shall be performed on all the test		
	specimens as described in EN 60384-14;	X	
	the impulse test of 2,5 kV is to be performed before the		
ZWSLT	endurance test in EN 60384-14, in the sequence of tests	WSLI	ws
	as described in EN 60384-14.	\bigvee	
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		/
WSFT	(230 V).	WSET	Auros
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	$X \rightarrow$	\langle
	Resistors used as basic safeguard or bridging basic		
	insulation in class I pluggable equipment type A	WSET WS	
\sim	shall comply with G.10.1 and the test of G.10.2.	\sim	
5.6.1	Denmark		N/A
_W5ET	Add to the end of the subclause	WSET	
	Due to many existing installations where the		
	socket-outlets can be protected with fuses with higher	\land /	
	rating than the rating of the socket-outlets the protection	WSET WS	CT
	for pluggable equipment type A shall be an integral part		
X	of the equipment.	X	
WSET	Justification:	WSET	w
	In Denmark an existing 13 A socket outlet can be	WSL	
	In Definiarit an existing to 71 sector outlet ban be		



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	AVIET	EN62368-1	WEFT	AVE	
	Clause	Requirement – Test	Result – Remark	Verdict	
Х	5.6.4.2.1	Ireland and United Kingdom	X X	N/A	
<u>W5CT</u> `		After the indent for pluggable equipment type A , the	WSCT° WSC		
		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	
X		The range of conductor sizes of flexible cords to be			
		accepted by terminals for equipment with a rated current			
WSL1		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	No high protective conductor	N/A	
	<u> AWSET</u>	To the end of the subclause the following is added:	current. WSCT		רז" בדי
\sim		The installation instruction shall be affixed to the	\sim \sim		
\wedge		equipment if the protective conductor current	\wedge \wedge		
WSET		exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	WSCT WSC		

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And a	ENIO2000 4		
	EN62368-1	WEET	-
Clause	Requirement – Test	Result – Remark	Verdict
	XX		
5.7.6.1	Norway and Sweden	Not such system.	N/A
7	To the end of the subclause the following is added:	WSET WSL	
	The screen of the television distribution system is		
	normally not earthed at the entrance of the building and	X	
	there is normally no equipotential bonding system within		-
WSET	the building. Therefore the protective earthing of the	WSLI	
	building installation needs to be isolated from the screen		
	of a cable distribution system.	XX	
	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.		
WSET	The user manual shall then have the following or similar	WSET	WS
	information in Norwegian and Swedish language		
	respectively, depending on in what country the	X X	
	equipment is intended to be used in:	Δ \Box	
	"Apparatus connected to the protective earthing of the	WSET WSL	
	building installation through the mains connection or		
	through other apparatus with a connection to protective	X	
August -	earthing – and to a television distribution system using		1000
WSET	coaxial cable, may in some circumstances create a fire	WSLI	115
	hazard. Connection to a television distribution system		
	therefore has to be provided through a device providing	\land	
	electrical isolation below a certain frequency range	WSET WSI	
	(galvanic isolator, see EN 60728-11)"		
X	NOTE In Norway, due to regulation for	X	
	CATV-installations, and in Sweden, a galvanic isolator		/
W5ET		WSET	W5
	shall provide electrical insulation below 5 MHz. The		
	insulation shall withstand a dielectric strength of $1,5 \text{ kV}$	XX	
	r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will also be	WSET WSL	
	accepted in Norway):		



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		EN62368-1	A A A A A A A A A A A A A A A A A A A	Auge -
	Clause	Requirement – Test	Result – Remark	Verdict
Х		"Apparater som er koplet til beskyttelsesjord via	IX X	N/A
		nettplugg og/eller via annet jordtilkoplet utstyr – og er		
<u>'5CT</u>		tilkoplet et koaksialbasert kabel-TV nett, kan forårsake	WSET [®] WSE	
		brannfare. For å unngå dette skal det ved tilkopling av	\sim	
	\wedge	apparater til kabel-TV nett installeres en galvanisk		
	WSET	isolator mellom apparatet og kabel-TV nettet."	WSET	WSET
		Translation to Swedish:		
Х		"Apparater som är kopplad till skyddsjord via jordat	XX	
		vägguttag och/eller via annan utrustning och samtidigt är		
SLT		kopplad till kabel-TV nät kan i vissa fall medfőra risk főr		
		brand. Főr att undvika detta skall vid anslutning av		
	\wedge	apparaten till kabel-TV nät galvanisk isolator finnas		
	WSET	mellan apparaten och kabel-TV nätet.".	WSET	WSC1
/	5.7.6.2	Denmark	No external circuits.	N/A
X		To the end of the subclause the following is added:	X = X	
1517		The warning (marking safeguard) for high touch current	WSET WSE	
261		is required if the touch current or the protective current		
		exceed the limits of 3,5 mA.	X	
	B.3.1 and	Ireland and United Kingdom		N/A
	B.4	The following is applicable:		
\mathbf{X}		To protect against excessive currents and short-circuits	\times \times	
$^{\prime}$		in the primary circuit of direct plug-in equipment , tests		
ISET		according to Annexes B.3.1 and B.4 shall be conducted	WSET WSE	
		using an external miniature circuit breaker complying		
	X	with EN 60898-1, Type B, rated 32A. If the equipment	X	X
	August	does not pass these tests, suitable protective devices		1000
	ZWSLI	shall be included as an integral part of the direct plug-in	WSET	
\bigvee		equipment, until the requirements of Annexes B.3.1 and	\vee	
\wedge		B.4 are met	\land \land	
ISET		WSET WSET	WSET WSE	7

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	AUGO	EN62368-1	WEFT	1000	
	Clause	Requirement – Test	Result – Remark	Verdict	
\times	G.4.2	Denmark	No power supply cord provided.	N/A	
WSET		To the end of the subclause the following is added:	WSET WSET		1
	WISET	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	WSET	WIST	
\searrow		earth contacts or which are intended to be used in	\searrow \searrow		
WSET		locations where protection against indirect contact is required according to the wiring rules shall be provided			
	\searrow	with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.			7
	WSET	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment	WSET	ws	7
		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.			
	WSET	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.	WSET	WIST	
X		Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	\times		
WSET		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	WSET WSE		/
	WISET	Justification: Heavy Current Regulations, Section 6c	WSET	wse	7°
\searrow			\vee		

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	WEFT	EN62368-1	WEET	hure	
	Clause	Requirement – Test	Result – Remark	Verdict	
$\boldsymbol{ imes}$	G.4.2	United Kingdom	Δ Δ	N/A	
<u>W5CT</u>		To the end of the subclause the following is added:	WSET [®] WSE		-/
	\sim	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9,	\times		$\langle \rangle$
	Augen	12.11, 12.12, 12.13, 12.16, and 12.17, except that the	WEET	har	
	ZWSLI	test of 12.17 is performed at not less than 125 °C. Where	WSL		
\sim		the metal earth pin is replaced by an Insulated Shutter	\sim \sim		
\land		Opening Device (ISOD), the requirements of clauses			
WSET		22.2 and 23 also apply.			
	G.7.1	United Kingdom		N/A	/
		To the first paragraph the following is added:	\wedge	/	
	WSET	Equipment which is fitted with a flexible cable or cord	WSET	ws	77
$\overline{}$		and is designed to be connected to a mains socket			
\mathbf{X}		conforming to BS 1363 by means of that flexible cable or	\times \times		
		cord shall be fitted with a 'standard plug' in accordance			
WSET		with the Plugs and Sockets etc (Safety) Regulations	WSET WSE		
	\sim	1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	\sim		
		NOTE "Standard plug" is defined in SI 1768:1994 and			
	_W5ET	essentially means an approved plug conforming to BS	WSET	W5	[7]
\sim		1363 or an approved conversion plug.	\vee \vee		
\wedge	G.7.1	Ireland	\wedge	N/A	
W5CT		To the first paragraph the following is added:	WSET WSE		
		Apparatus which is fitted with a flexible cable or cord			/
		shall be provided with a plug in accordance with			
	WSET	Statutory Instrument 525: 1997, "13 A Plugs and	WSET	AUTS	r7°
		Conversion Adapters for Domestic Use Regulations:			
X		1997. S.I. 525 provides for the recognition of a standard	\times \times		
$\langle \rangle$		of another Member State which is equivalent to the			
W5CT	1	relevant Irish Standard W527	WSET WSE		
					/



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		EN62368-1	WEFT	hurs	
/	Clause	Requirement – Test	Result – Remark	Verdict	-
X	G.7.2	Ireland and United Kingdom	\times \times	N/A	
5 <i>CT</i>		To the first paragraph the following is added:	WSET WSE		
		A power supply cord with a conductor of 1,25 mm ² is			/
		allowed for equipment which is rated over 10 A and up to	X		
	Autor	and including 13 A.		hurs	-
/	ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A	
X	10.5.2	Germany	No CRT within the equipment.	N/A	
SFT		The following requirement applies:			
361		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			
_	AW5ET	application of type approval (Bauartzulassung) and	W5CT°	W5	7
\checkmark		marking.	\sim		
X		Justification:			
EFT		German ministerial decree against ionizing radiation			
<u> 3 L I</u>		(Röntgenverordnung), in force since 2002-07-01,			
		implementing the European Directive 96/29/EURATOM.	\sim		/
		NOTE Contact address:			
	AW5ET	Physikalisch-Technische Bundesanstalt, Bundesallee	WSET	W5	7
/		100,			
Х		D-38116 Braunschweig,			
		Tel.: Int +49-531-592-6320,			
SLT		Internet: http://www.ptb.de	WSLT WSL		
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	4.1.2/527	TABLE: List of critica	al components	CT°	WSET	PWSL	7°
<	Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹	
E 7	РСВ	GOLDENMAX	GDM-R1, ILM-R1	V-0, 130°C	UL 796, UL 94	UL E330731	
	\mathbf{X}	INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD		$\langle \rangle$	01 94	\rightarrow	
	(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796,	UL WSC	7 °
1		/	\backslash		UL 94		
	Plastic enclosure	CHI MEI CORPORATION	PA-765A(+)	V-1, 80°C, Min.1.5mm thickness	UL 94	UL E56070	7
	Note(s):						

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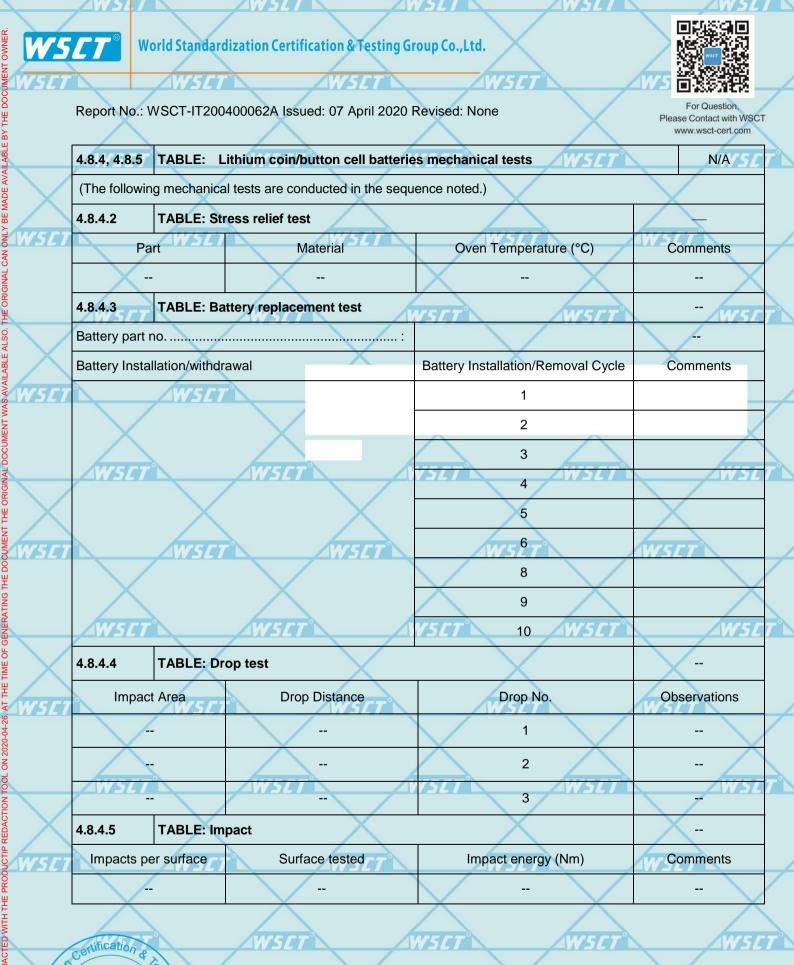
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	Report N	1		lssued: 07 April 20				For Question, ase Contact with WSCT www.wsct-cert.com
	4.8.4, 4.8	.5 TABLE	: Lithium co	in/button cell batt	eries mechanica	tests W5	[7°	N/A/527
\sim	(The follo	wing mecha	anical tests are	conducted in the s	equence noted.)	\checkmark		
		- /						
W5E7		WS		WSLT		ISLT	WS	
	4.8.4.6		E: Crush test		X	\rightarrow		- X
	Tes	st position	W5	Surface tested	AVISET Crus	hing Force (N)		ration force
\searrow		- /				\checkmark	a	pplied (s)
\wedge		- /		- X		X-		
W5LT		- ws						/
	Suppleme	entary inform	nation:	/				
	\square							\square
	4.8.5	TABLE	E: Lithium coir	h/button cell batter	ries mechanical t		7	N/A/5C7
\times	Tes	st position		Surface tested		Force (N)		ration force pplied (s)
WSET		- /ws	TT	WSET		VSET	WS	C7-
		/		/	$\mathbf{\nabla}$	- \		/
	Suppleme	entary inform	nation:			/		
<u> </u>	/W5		W5	TT	AWSET	WS	T	WSET
\sim	5.2	Table: Cla	assification of	electrical energy	sources	\bigvee		Р
\wedge	5.2.2.2 -	Steady State	e Voltage and (Current conditions		$ \land $		
<u>4W5C7</u>		Lungh.	ocation (e.g.	WSLT		Parameters	W5	17
		Supply oltage	circuit	Test conditions	U		Hz	ES Class
			designation)		(Vrms or Vpk)	(Apk or Arms)		
	1 5.0\	In	ternal circuit	Normal	5.0Vdc	WS	DC	WSUT
\times			\times	Abnormal		Χ-		S1
wsen			5.57	Single fault -SC/OC: 507	-	75 <i>CT</i>	ws	<i>[</i> 7
2	5.2.2.3 -	Capacitance	e Limits	/	$\overline{\nabla}$			
					\frown			
	certificatio,	ne	W5			WS		WSET
World Star	W5C7	esting G	$\langle \rangle$	\sim		\times	\rightarrow	$\langle \rangle$
AV E			SET N	WSET		VSET	W5	[T
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	W	Supply	Location (e.g. circuit	W	5 <i>CT</i> °	Paramete	rs 🖸	W5C
	No.	Voltage	designation)	Test conditions	Capacitance,	nF	Upk (V)	- ES Class
1		/	<u> </u>	Normal	\frown		/ \	
67	2	M	SET°	Abnormal	<u></u>		WSLT	
		\times		Single fault –	X		×	
	4			SC/OC				
_	5.2.2.4	1 – Single Pu	lses			1		
\langle		Supply	Location (e.g. circuit		X	Paramete	rs X	
	No.	Voltage	designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	- ES Class
6.				Normal				
		\times		Abnormal	<u> </u>	/		
	W	SET	WSET	Single fault - W	SET°	W	SET .	W5C
				SC/OC				
1	5.2.2.5	5 – Repetitive	Pulses	$ \land $				
567	No	Supply	Location (e.g. circuit	Test conditions	WSE	Paramete	rs WSET	- ES Class
	No.	Voltage	designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	- ES Class
	-/-	557		Normal		-		
_		527	WSLI	Abnormal	-	/	-	ZWSL
X			\times	Single fault –	- X		- X	1 -
577	0		IS FT	SC/OC	WST		WSFT	
	Test C	Conditions:				1		
		Normal –			X	/	\mathbf{X}	
	Supple	Abnorma ementary info	ormation: SC=Short Cir	cuit_OC=Short Ci	srr rcuit	_/w.	5 <i>CT</i>	WSE
						/		
	2	2		\square				
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		\times	\times		\times		\times	
	4							harde
1	Certifica	ation & lesting Gr	W5CT [®]		SET	/ 11	SET°	WSE
dizati		sting	X	X	X		X	
lar	WS							

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	5.4.1.4, 6.3.2,	TABLE: Temperatur	re measurem	ents WSCT		WSE	7°\	PW5	[7°
/	9.0, B.2.6	\searrow			\backslash			/	
\langle		Supply voltage (V)		5VDC		5VD0			
<u>[</u> 7	Δ	Test condition:	W5C1	Only chargir	ng v 577	Charging		C7°	
						norma operati			/
		Ambient T _{min} (°C)				<u>_</u>			
_	WSLT	Ambient T _{max} (°C)		<u>WSL</u>		<u>AWSE</u>		<u></u>	
$\langle \rangle$		Tma (°C)	X		X			<	
	Maximum meas	sured temperature T o	f part/at:		T (°C)		Allowed T _{max}	¢
6 /	Maximum mode		i purivut.					(°C)	7
	Power input wire			41.1		49.8		Ref.	<
	PCB near U5	WISE	7	45.6		69.5	7	130	67 °
/	PCB near U60	\searrow		45.1	\backslash	67.3		130	
1	C33	\land		45.6		69.6	/	105	
[7	Internal enclosu	ire near U5	WSE	44.7	<u>W5</u> [7	63.7	WS	CT 80	
	Ambient	\times		40.0		40.0		>	2
	For accessible	part			9			har	
/	External enclos	ure near U5*		28.5		42.6		77	
\langle	Ambient	X	X	25.0	X	25.0		<	
<u></u> [7	Supplementary	information:	WSE		W5ET	×	ws	СТ	
	Note 1: The app	paratus was submitted	and evaluate	d of maximum ma	anufacture	e's recomme	ned abmier	nt(Tma) of	/
	40°C.	X						/	
		nperatures were meas				L	able B.2.1.	W5	[T
1	Note 3: * Temp	erature limit for TS1 of	accessible er	closure accordin	g to Table	38.		/	
2	Temperature T			1 (Ω) t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	
[[]				/	<u>W5</u> [7	-		-	
	X	X		- X.		>		>	$\langle \rangle$
	ertification	W5C	7	WSET		WSE	7°	ws	TT
/	certinoadion	11111			S				-



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Supplementary information: 4///5

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

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

L /		AWSLI			
	5.4.1.10.2 TABLE: Vicat softening temperature of the	ermoplastics	N/A	/	
	Penetration (mm):	\wedge		-	
	Object/ Part No./Material	Manufacturer/trademark	SCT T softer	ning (°C) W5L	7 °
/					
				-	
51	supplementary information:				7

	5.4.1.10.3 TABLE: Ball pr	essure test of thermoplastic		HT	N/A	
/	Allowed impression diameter	(mm):	≤ 2 mm		/-	
\langle	Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression d	liameter (mm)	
СТ	wscr	- WSET	WSET		ET	
						1

Supplementary information:

	5.4.2.2, 5.4.2.4	TABLE: Minim	um Clear	ances/Cr	eepage dist	ance	WS	ET	N/AV/5	77
/	and 5.4.3						/			
-	Clearance (cl) ar		Up	U r.m.s.	Frequenc	Required	cl	Required ³	cr	
7	distance (cr) at/c	of/between:	(V)	W ^(V) E7	y (kHz) ¹	cl (mm)	(mm) ²	cr (mm)	(mm)	
	//							/		/
		. t e	A				/			

Supplementary information:

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Note 1: Only for frequency above 30 kHz

Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

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5.4.2.3 T	ABLE: Minimum Clearances	distances using required v	vithstand voltage	N/A
C	Overvoltage Category (OV):	\mathbf{X}	\mathbf{X}	- X
rtification	W5ET	WSET	WSET	ws.



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	W5C1 Pollution Degree: 5C7	ws.		VSET - WS	17
<	Clearance distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)	
C1	·- WSET	WSCT WSCT		WSET	
	Supplementary information:			$\langle \rangle$	/
	5.4.2.4 TABLE: Clearances bas	ed on electric strengt	h test	VSET N/AWS	[7 °
/	Test voltage applied between:	Required cl	Test voltage (kV)	Breakdown	
1		(mm)	peak/ r.m.s. / d.c .	Yes / No	
C 7	WSET				

Supplementary information:

/	5.4.4.2, 5.4.4.5 c) TAB 5.4.4.9	BLE: Distance through in	sulation me	asurements	WSLT	N/A	Ž
7	Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
	//		-			-	
			\wedge			\sim	ł

Supplementary information:

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	WSCT	WSET		/W5CT`\	W5C	7 1
/	5.4.9	TABLE: Electric strength tests		\checkmark	N/A	
1	Test voltage	applied between:	Voltage shape	Test voltage (V)	Breakdown	
C7	2	WSET WS	(AC, DC)	SET	W5 Yes / No	
	Functional:					/
	- /	$ \land \land$				
	Basic/supple	mentary: W5C7	WSET	WSET	WSE	7 ĭ
\langle		\times	-	X -	Χ-	
C 7	Reinforced:	WISTER WIS		SET	WEFT	
					-	7
	Routine Test	s:	\sim	$\boldsymbol{\lambda}$	X	
_	certification e	WSET	WSET	WSET	WSE	7 °

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	_ZW5L		AWSL		ZWSLI				WSL	
w5	[[7 [®]]	World Standa	rdization Cert	ification & Testin	ng Group Co.,Li		\leq			
<u> (SET</u>		WSC	7	WSET		<u> 2W5</u>				
	Report No	o.: WSCT-IT20	0400062A Is	sued: 07 April 20	020 Revised: N	lone	\rightarrow	PI	For Question, ease Contact with WSCT www.wsct-cert.com	
	5.4.9/5/	TABLE: E	lectric stren	gth tests	WSET		W5C	7	N/AVSE	7
	Teet velte	an applied hat	waani				Test voltage ()		Dreakdauur	
Х	Test volta	age applied bet	ween:	-X	Voltage shape (AC, DC)		Test voltage (\		Breakdown Yes / No	
<u> 1567</u>	-	W5Ľ	7	WS[T	<u> </u>	<u>/w</u> 5	[[]			
	Suppleme	entary informat	ion:		$\overline{\mathbf{V}}$				\sim	
			\frown		\wedge					
	5.5.2.2	TABLE: S	tored discha	rge on capacito	orsW5CT		W5C	7°\	N/AVSE	7 °
\checkmark	Supply Vo	oltage (V), Hz	Test	Operating	Switch	Meas	ured Voltage	ES CI	assification	
\wedge			Location	Condition	position	(afte	r 2 seconds)			
<u> (5</u> [7	6	WSD	7	(N, S)	On or off					
	-			/						/
		entary informat ors installed fo			\wedge		\wedge			
		eding resistor ra		7 °	WSET		W5C	7	W5C	7
/							/		/	
\times	Notes: A. Test Lo	ocation:				>	$\langle \rangle$		X	
15/7	Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth									
		ating condition		s: normal operatio	n or open fus	e): S –S	Single fault cond	lition		7
	11 11011		,nation (e.g.,			o), o c			— X	
	5.6.6.2	TABLE: R	esistance of	protective conc	luctors and te	erminat	ions W5C	7	N/AVSL	7
Х		Accessible pa	rt	Test current (A)	Duratio (min)	n	Voltage drop (V)	R	esistance (Ω)	
75 27	-	W5C	7°	WYSET		<u>Aws</u>	[7]	W	567	
	\	/							\	/
	- /									
	Suppleme	entary informati	on:		ZWSLT		WSL		WSL	1
\times		X					$\langle -$		\times	
7574	5.7.2.2, 5.7.4	TABLE: E	arthed acces	sible conductiv	e part	ws	CT .		N/A	
	Supply vo	oltage		/					- \	/
L	<u> </u>		X		X		X		X	
	rificatio	R	W5L	7 °	WSET		WSE	7	WSE	7
.5	Certano	A lesting	/				/			
ndardiza	Certificatio,	I God VSC	7°	WSET					STT [®]	
Sta	adjustion Court	世标检测 Reation & Testing Grou	认证股份 ADD:B		ience & technology 6996145/26996192 FAX				en, Guangdong, China om Http:www.wsct-cert.com	/
and stands	M *	pł			age 66 of 86				Member of the WSCT INC.	

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	Location CT WSCT	Test conditions specified in 6.1 of	Touch current 5 [7
1		IEC 60990 or Fault Condition No	(mA)
	XX	in IEC 60990 clause 6.2.2.1	X
		through 6.2.2.8, except for 6.2.2.7	
. /			WALI
	-	1	-
	X - X	2*	- X
	WSET WSET	5 <i>ET</i> 3 W5 <i>ET</i>	- WSET
/		4	<u> </u>
1		5	-
[7	WSET	6	
	- X	7	

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	Table: Electri	ical power sourc	for classification	P		
/	Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s* ⁾	PS Classification	
1		\times	Power (W) :	5.70	5.70	\mathbf{X}	
.7	DC power	Output	V _A (V) : V	15CT 4.75	W5C74.75	W5_PS1	
			I _A (A) :	1.2	1.2		/
		A	Power (W) :	0			
	DC power	Output (U5 pin1-4 S-C)	V _A (V) :	04567	WSET	PS1 W52	1
(I _A (A) :	0	X	\times	

Supplementary Information:

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(*) Measurement taken only when limits at 3 seconds exceed PS1 limits







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	6.2.3.15 Table: Determinati	on of Potential Ignition	on Sources (Arcing	PIS) W5C7	N/AVSE
H / /	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (Vp x Irms)	Arcing PIS? Yes / No
. /					

Supplementary information:

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

		X		X	X		X
	6.2.3.2	Table: Dete	ermination of Potentia	al Ignition Sourc	ces (Resistive P	YIS)	N/A
ζ7	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	Resistive PIS? Yes/No
/						(Comment)	
\langle	-	- X	-	X			×

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	\sim	\wedge	N/A
	Description W5CT	W5 Values	Energy Source	Classification 27
/	Lamp type		-	\times
	Manufacturer		-	
. /	Cat no.			
	Oat 10			
	Pressure (cold) (MPa):	X	MS	- X



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	Pressure (operating) (MPa):	WSET	WSET MS_ WSE	7
/	Operating time (minutes):			
1	Explosion method			
7	Max particle length escaping enclosure (mm) .:	WSLT	MS_	/
	Max particle length beyond 1 m (mm):	X	MS_	
	Overall result	WISIT	WSET WSE	7
/	Supplementary information:			

W5C1

- 7	B.2.5	TABLE: Inp	ut test						Р		
	U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Cond	ition/status		7
	5.0	1.34	2.0	6.70	\wedge		-	Loading 5	V 1A		
	Supplement	ary informatio	on: WSET		W5CT°		W5L	7	/W5	[7	

/											
1	В.3	TABLE: Ab	normal opera	ting conditi	on test	ts	1			Р	
57	Ambient temp	perature (°C)	<u>,</u>			:	25°	C, if not s	pecified	WSET -	
	Power source	e for EUT: M	anufacturer, m	odel/type, o	utput ra	iting :	See	below	$\mathbf{\nabla}$	>	
	Component	Fault	Supply	Test time	Fuse	Fuse		T-coupl	Temp.	Observation	
_	No.W5CT	Condition	voltage, (V)	(h)	no.//	current, ((A)	е	(°C)	W5L	7
/				\sim					External	Output overload to	
1	2						/		enclosure	1.2A and unit shut	
57	Output	Vo-I	5.0	4h26mins		/	W	Type J	near U5:	down at 1.3A, No	
									42.8°C	hazards	
						Х			Ambient: 25.0°C	X	
	Supplementa	ny informatic	m: WSFT	2		CCTT				WE	

Supplementary information:

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											/	
	B.4W5C7	TABLE: Fau	ult conditio	n tests		WSE1	À		/W.	567	PW5L	7
/	Ambient temp	erature (°C)					:	25°C	, if not spec	ified	<u> </u>	
1	Power source	for EUT: Ma	anufacturer	, model/ty	pe, outp	ut rating .	:	See	below			
	Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T cou		Temp. (°C)	Obse	ervation	
/	C10	S-C	5.050	10 mins		<u>wsci</u>				Unit shut dov no hazards.	vn immediately,	7
/	U5 pin 1-4	S-C	5.0	10 mins	X				<u> </u>	Unit shut dov no hazards.	vn immediately,	
7	R50	S-C	5.0	10 mins				-		Unit shut dov no hazards.	vn immediately,	/
	X		X							-		

Supplementary information:

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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.

1) In fault column, S-C= Short-Circuited, L-R= locked-rotor.

2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; besides, all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

3) The test result shown no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

				\sim			\wedge				
	Annex M	TABLE: Batte	eries	hur						N/A	
	The tests of A	Annex M are a	applicable o	nly when app	ropriate bat	ttery data is	not availat	ole	11-15-1	-	/
	Is it possible	to install the b	attery in a r	everse polari	ty position?	(:	×		X	
	WSET	Non-re	chargeable	batteries	WS	F	Rechargeab	le batteries		WIST	7
		Disch	arging	Un-intentio	Cha	rging	Discha	arging	Reverse	d charging	
<		Meas.	Manuf.	nal	Meas.	Manuf.	Meas.	Manuf.	Meas.	Manuf.	
1		current	Specs.	charging	current	Specs.	current	Specs.	current	Specs.	
[]	Max. current	WSET		W5C		/W.	5 <i>CT</i> °N		WSET	<u> </u>	
	during norma	I I				/		-/			/
	condition				\rightarrow	$\langle \rangle$		X			





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	Annex MC7	TABLE: Batte	eries V5C 7	1	ws	CT 2		SET		N/AVISE
\searrow	The tests of	Annex M are a	applicable of	nly when app	ropriate ba	ttery data is	not availat	ble	\mathbf{N}	
\bigtriangleup	Is it possible	to install the b	attery in a r	everse polari	ty position?	·				
WSL1		Non-re	chargeable	batteries		R	echargeab	le batteries	WSL1	
		Disch	arging	Un-intentio	Cha	rging	Disch	arging	Reversed	d charging
		Meas.	Manuf.	nal	Meas.	Manuf.	Meas.	Manuf.	Meas.	Manuf.
	WSFT	current	Specs.	charging	current	Specs.	current	Specs.	current	Specs.
	Max. current	/			/				/	
X	during fault	X					X		X	
	condition									
W5C1		WSET	4							_
	Test results:		\sim					~	١	/erdict
	- Chemical le	eaks		0			k	No leaks		-
	- Explosion of	of the battery			- M-51			No explos	ion	
X	- Emission o	f flame or expu	ulsion of mo	Iten metal			X	No emissi	on	
W5E1	- Electric stre	ength tests of e	equipment a	fter completion	on of tests	w	527	/	WSET	
	Supplementa	ary informatior				/		\checkmark		
				S.,	/			X		
	Annex M.4	Table: Addi	tional safeg	uards for eq	uipment co	ontaining s	econdary I	ithium		N/AV5C
		batteries					1			
X		X		X		Magaur	omente		X	

Battery/Cell No.	Test conditions	Measuremen	ts	Observation	
Battery/Cell No.	Test conditions	U 1 (A)	Temp (C)	Observation	
	AW SL	ZW5L1		WSL/	
	Normal			-	1
X	Abnormal		X	- X	
WSET	Single fault –SC/OC	WISET -	WSET	- WSL	7

Supplementary Information: see table Annex B.4 for detail

2	Battery	Charging at	Observation	Charging at	Observation	
	identification	T _{lowest} (°C)		T _{highest} (°C)		/
	- X	- /	< - X		X - X	



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	Battery	Charging at 5	Observation W5/	Charging at	W5CT Observation W5CT
1	identification	T _{lowest} (°C)		T _{highest} (°C)	
	.	. X	X	X	X

W5C

Supplementary Information:

WSE

Р	/
<u>/WSC</u> 7	2
₋imit	
100	
100	7
1	100

1. SC=Short circuit.

2. *Unit shut-down

						V	
	T.2, T.3, TA T.4, T.5	BLE: Steady force t	est			Р	
57	1.4, 1.5	WSET					
	David a setting	Matarial	Thickness		Test Duration	Observation	
	Part/Location	Material	(mm)	Force(N)	(sec)	Observation	
	Top enclosure	Plastic	Min. 1.5	100	5 🖊	No damaged, no hazards.	
	_AWSET	W5/	7	AWSET	WS	ET AWSE	7
/	Side enclosure	Plastic	Min. 1.5	100	5	No damaged, no hazards.	
<	Bottom enclosure	e Plastic	Min. 1.5	100	5	No damaged, no hazards.	
C7	Supplementary in	formation	AWSET°		NSET	WSET	
	Cappionionalyn	in of the date of the					

	Т.6, Т.9 ТАВ	LE: Impact tests				N/A
	Part/Location	Material	Thickness	Vertical	Observation	
/		\sim	(mm)	distance (mm)	\vee	
	-			-	<u> </u>	
C7		VSET	WSET			567
		-	/			
	X	- X		X	X	X



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Report No.: WSCT-IT200400062A Issued: 07 April 2020 Revised: None

Supplementary information: 2W5L

	Т.7	TAB	LE: Drop tests			\wedge /	Р	
1	Part/Locati	Part/Location Material		Thickness	Drop Height	W5C7 Observation	SET	7
			(mm)	(mm)	m)			
	Top enclosure		Plastic	Min. 1.5	1000	No damaged, no ha	azards.	0
/	Side enclosure Plastic		Plastic	Min. 1.5	1000	No damaged, no ha	azards.	
	Bottom enclosure Plastic		Min. 1.5	1000	No damaged, no ha	azards.		
7	Supplementary information:							

	Т.8 ТАВ	LE: Stress relief to	est	\wedge			Р
	Part/Location Material //5		Thickness	Oven	Duration	Duration 527 Obse	
/			(mm)	Temperature (°C)	(h)		
	Completed sample	Plastic enclosure	Min. 1.5	70	7	No damage	d, no hazards.

Supplementary information: For details refer to appended table 4.1.2.



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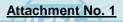


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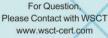
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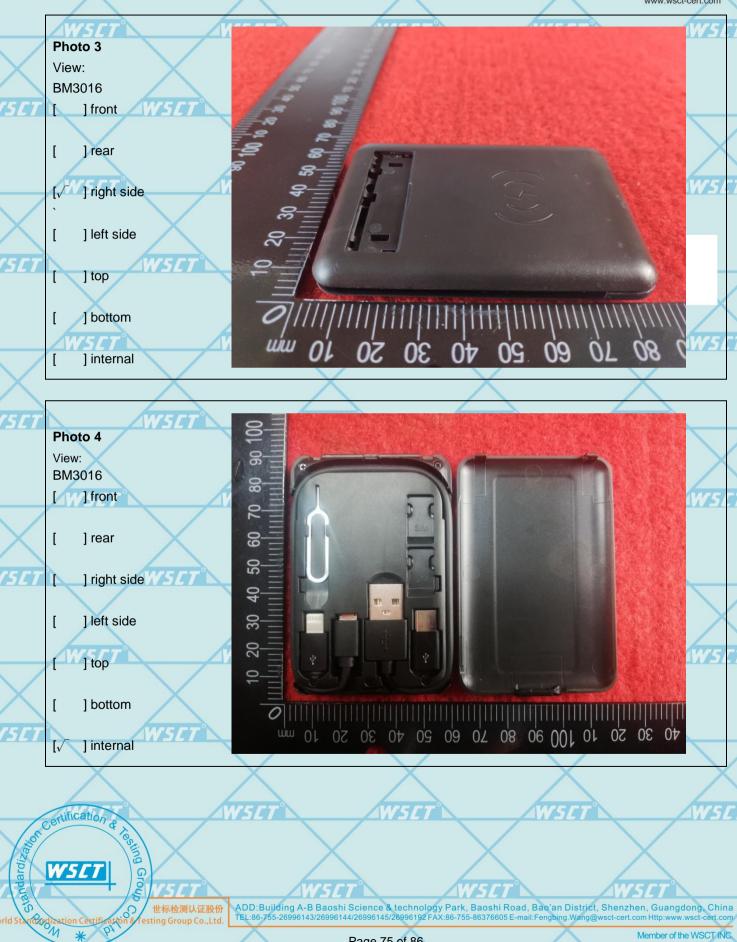
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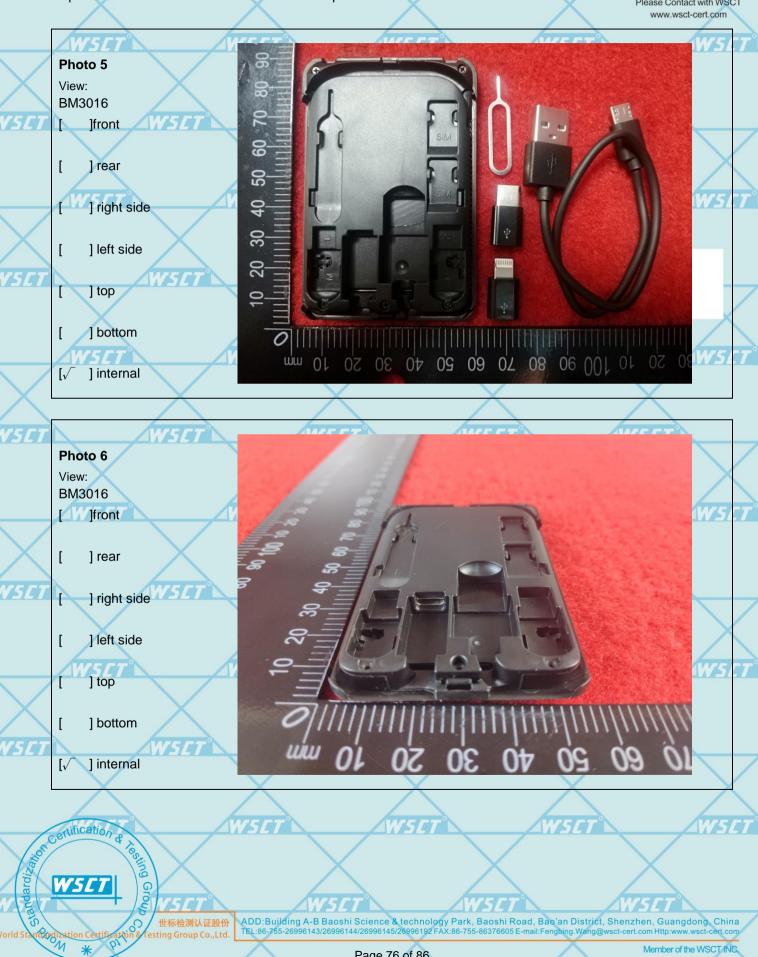






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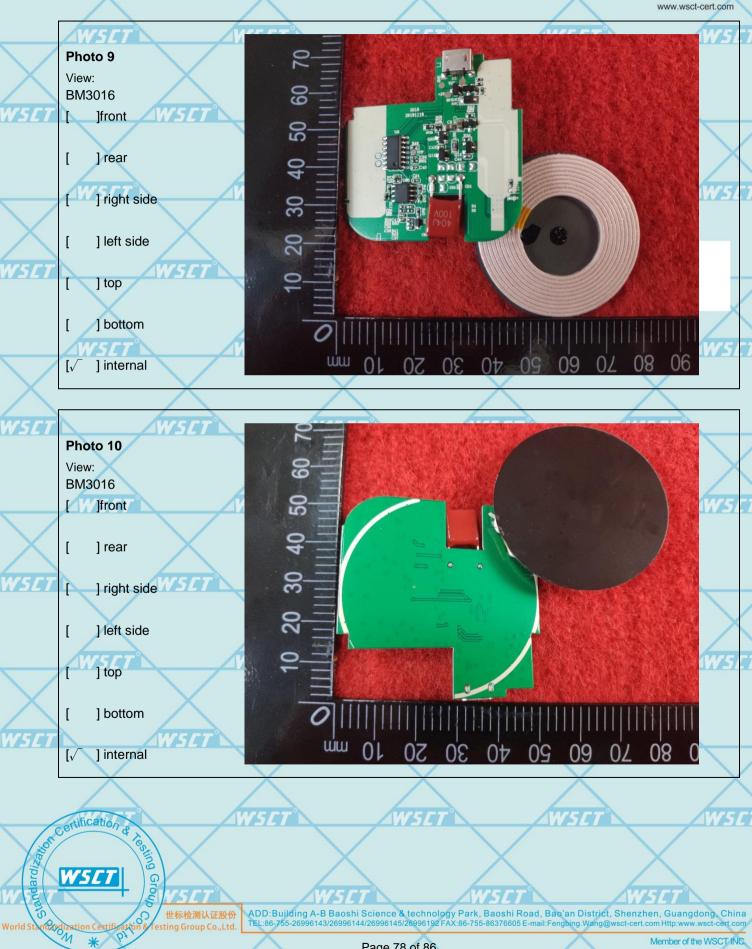






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Attachment No. 2

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Equi	pment	list 📃

	Equipment list					1			
	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not	
	WSCTEE-001	Plug Torque Tester	ZLT-LJ2	LJ021402	2019.08.14	2020.08.13	Guangzhou Zhilitong	1	/
	WSCTEE-002	Tumbling Barrel Tester	GT-1	G011307	2019.08.15	2020.08.14	Guangzhou Zhilitong	\geq	
	WSCTEE-003	Stability Board	WD-1	W010507	2019.08.15	2020.08.14	Guangzhou Zhilitong		[7
	WSCTEE-004	Glow Wire Test Set	GTR-B	R023207	2019.05.06	2020.05.05	Guangzhou Zhilitong		
7	WSCTEE-005	Needle Flame Test Set	ZY-Z	Y021207	2019.08.15	2020.08.14	Guangzhou Zhilitong		
	WSCTEE-006	Hot line Coil Resistance Meter	RC-2	200978	2019.08.14	2020.08.13	Hangzhou Weibo	/	\langle
/	WSCTEE-007	Automatic Frequency Converter	AN9703 0TS	069712327L	2020.03.16	2021.03.15	Ainuo	_ws	7 7
1	WSCTEE-008	Insulation Resistance Tester	AN9671	079602136	2020.03.16	2021.03.15	Ainuo		
	WSCTEE-009	Digital Power Meter	PF210	199764	2019.05.06	2020.05.05	Hangzhou Weibo		/
	WSCTEE-010	Digital Power Meter	8716C	870611014	2019.05.06	2020.05.05	Qingdao Qingzhi		
/	WSCTEE-011	Data Acquisition/S witch Unit	34970A	MY41030818	2019.08.14	2020.08.13	Agilent		
1	WSCTEE-012	Desktop Multi Meter	GDN-82 45	CG810127	2019.05.06	2020.05.05	Good Will	~	
	WSCTEE-013	Desktop Multi Meter	GDW-8 245	CG810128	2019.05.06	2020.05.05	Good Will	1	
	WSCTEE-014	Temp.&Humi. Chamber	GDJS-5 00-40	/	2019.05.13	2020.05.12	Guangzhou Gongwen	/	1
	WSCTEE-015	Pink Noise Generator	DF1681	DH06006133	2019.05.13	2020.05.12	Ningbo Zhongce	S	٢7
	WSCTEE-016	Function Generator	GFG-82 16A	CH811153	2019.08.14	2020.08.13	Good Will		
	WSCTEE-017	Digital LCR	YD2810 B	10HB-5832	2019.08.14	2020.08.13	Yangzi		
	WSCTEE-018	Electronic weight	BCSS-3	080556	2019.08.14	2020.08.13	Balance Electron	V	



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		/		/			www.w	vsct-cert.com	1
	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	77
	WSCTEE-019	Audio Generator	GAG-81 0	GE0874109	2020.03.16	2021.03.15	Good Will		
[7	WSCTEE-020	Oven	101A-3	5633016	2019.08.14	2020.08.13	ShangHai Rongfeng	V	_
	WSCTEE-021	Digital Caliper	(0∼ 150)mm	K17E197526	2020.03.16	2021.03.15	Shanghai	V	
	WSCTEE-022	Torque Driven	100LTD K	- ws	2019.08.14	2020.08.13	Nakamura	ws	77
/	WSCTEE-023	Oscilloscope	TDS301 2B	B036872	2019.08.14	2020.08.13	Tektronix		
	WSCTEE-024	Pull & Push Scale	FB-30K	192869	2019.08.14	2020.08.13	Imada	V	
511	WSCTEE-025	AC/DC Dielectric Resistance	AN9634 H	069610322	2020.03.16	2021.03.15	Ainuo		7
		Test Meter							1
	WSCTEE-026	Ground Bond Meter	AN9616 H	079602157	2019.05.06	2020.05.05	7 Ainuo		57
$\langle \rangle$	WSCTEE-027	Leakage Current	AN9620 H	079601341	2019.05.06	2020.05.05	Ainuo		
67	WSCTEE-028	DC Resistance Meter	YD2511	75 2073	2019.05.06	2020.05.05	Yangzi		
	WSCTEE-029	Voltage Regulator	SVC-20 KVA	0502072	2020.03.16	2021.03.15	Yangzhou Huatai		\langle
	WSCTEE-030	DC Power	TPR-30 10D	9410205510	2019.08.14	2020.08.13	Longwei	Nr5	
\langle	WSCTEE-031	Data Acquisition/ Switch Unit	34970A	MY44020255	2019.08.14	2020.08.13	Agilent	V	
C 7	WSCTEE-032	0.5J Spring Hammer	CJ-3	C031207	2019.08.15	2020.08.14	Guangzhou Zhilitong		
	WSCTEE-033	1J Spring Hammer	CJ-3	C031307	2019.08.15	2020.08.14	Guangzhou Zhilitong	\geq	
/	WSCTEE-034	0.2J Spring Hammer	CJ-3	C031107	2019.08.15	2020.08.14	Guangzhou Zhilitong	ZWS	[7
	WSCTEE-035	Ball Pressure	QY-1	Q010707	2019.08.15	2020.08.14	Guangzhou Zhilitong		
	WSCTEE-036	Stop Watch	PC2810)	2020.03.19	2021.03.18	Shenzhen Huibo	V	<



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				/		/	VV VV VV. V	vsct-cert.com	
/	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	57
	WSCTEE-037	Digital Multimeter	115C	93420101	2019.08.14	2020.08.13	Fluke		
	WSCTEE-038	Test pin	TZ-31	V310307	2020.03.18	2021.03.17	Guangzhou Zhilitong		/
	WSCTEE-039	Test pin	TZ-32	V320307	2020.03.14	2023.03.13	Guangzhou Zhilitong	AUS	
/	WSCTEE-040	Test probe	ST-01	S011107	2017.08.17	2020.08.16	Guangzhou Zhilitong		
1	WSCTEE-041	Test pin	ZX-14	X140107	2019.08.15	2020.08.14	Guangzhou Zhilitong		
.7	WSCTEE-042	Ball Pressure	QY-1	Q012807	2018.03.14	2021.03.13	Guangzhou Zhilitong		
	WSCTEE-043	Test finger	WZ-1	E010907	2018.08.16	2021.08.15	Guangzhou Zhilitong		\langle
	WSCTEE-044	Test finger	WZ-2	E020907	2018.08.16	2021.08.15	Guangzhou Zhilitong	ws	67
/	WSCTEE-045	Test Flat pin	TZ-40	V400107	2019.08.15	2020.08.14	Guangzhou Zhilitong		
	WSCTEE-046	Test Small pin	TZ-14	V140207	2019.08.15	2020.08.14	Zhilitong		
- /	WSCTEE-047	Test finger	TZ-12	H020507	2020.03.14	2023.03.13	Guangzhou Zhilitong	1	/
	WSCTEE-048	Test finger	ZJ-1	Z011207	2020.03.14	2023.03.13	Guangzhou Zhilitong	\geq	
	WSCTEE-049	Articulated test Finger	PA100A	U080807	2018.08.16	2021.08.15	Guangzhou Zhilitong		C7
\langle	WSCTEE-050	Test finger	GZ-1	F011107	2017.08.17	2020.08.16	Guangzhou Zhilitong		
	WSCTEE-051	Test finger	ZX-1	X010707	2017.08.17	2020.08.16	Guangzhou Zhilitong		
	WSCTEE-052	Test pin	ZX-1	X010707-2	2020.03.14	2023.03.13	Guangzhou Zhilitong		/
	WSCTEE-053	Test pin	WZ-2	V600208	2017.08.17	2020.08.16	Guangzhou Zhilitong		
/	WSCTEE-058	Test hook	ZLT-L18		2017.08.17	2020.08.16	Shenzhen Hengxintai	_w5	[7
	WSCTEE-059	Clock	QUART Z	Χ-	2019.08.15	2020.08.14	Hengshi	\checkmark	
.7	WSCTEE-060	Tape	7.5m	ISET	2019.05.06	2020.05.05	Rongsheng	V	
	WSCTEE-061	Data Acquisition/ Switch Unit	34970A	MY44026389	2019.08.14	2020.08.13	Agilent	\rightarrow	\langle
	2	600		6777	0	A		ATTE	17 Y



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		/		/			www.w	vsct-cert.com	1
/	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	[7
	WSCTEE-062	Digital Power Meter	CP-280	280902	2019.08.14	2020.08.13	IDRC		
[7	WSCTEE-063	Electronic scale	150kg	2007032206 0	2020.03.16	2021.03.15	Yinuowei		
	WSCTEE-064	Leakage Current	Simpso n 228/SK5 25-1148	-	2019.05.06	2020.05.05	USASimpson		4
/	WSCTEE-065	Steel Ball	GQ-1	<u> </u>	2018.08.16	2021.08.15	Guangzhou Zhilitong		
	WSCTEE-066	Dielectric strength test device	WSCT0 4	-	2019.08.15	2020.08.14	Shenzhen Hengxintai		
	WSCTEE-067	Digital Power Meter	PF9800	709387	2020.03.16	2021.03.15	YUANFANG		/
	WSCTEE-068	Digital Power Meter	PF9800	709394	2019.08.14	2020.08.13	YUANFANG	600	
/	WSCTEE-069	Metal Rod			2017.08.17	2020.08.16			57
	WSCTEE-072	Electronic Load	IT8512	0020021863 76001076	2020.03.16	2021.03.15	ITECH Eletronics		
C 7	WSCTEE-073	Electronic Load	IT8512	0020021863 76001077	2020.03.16	2021.03.15	ITECH Eletronics	A	
	WSCTEE-078	Electric drying oven with forced convection	101A-3	32232	2019.08.14	2020.08.13	SHANGHAI RONGFENG		K
/	WSCTEE-079	Steel Ball	GQ-2	0021486	2017.08.17	2020.08.16	Zhilitong		51
	WSCTEE-080	Weight	35IB	905	2020.02.10	2023.02.09	Penglaishi Shuiling		
[7	WSCTEE-081	Weight	30IB	156 906	2020.02.10	2023.02.09	Penglaishi Shuiling	A	
	WSCTEE-082	Weight	20IB	907	2020.02.10	2023.02.09	Penglaishi Shuiling		\langle
	WSCTEE-083	Weight	10IB	908	2020.02.10	2023.02.09	Penglaishi Shuiling	AWT5	C 1
/	WSCTEE-084	Weight	5IB	_	2020.02.10	2023.02.09	Penglaishi Shuiling		
1	WSCTEE-085	Weight	1IB		2020.02.10	2023.02.09	Penglaishi Shuiling		
57	WSCTEE-086	Digital Power Meter	8705B	870906342	2019.08.14	2020.08.13	Qingdao Qingzhi		
	WSCTEE-087	Digital Power Meter	8705B	870906341	2019.08.14	2020.08.13	Qingdao Qingzhi	\geq	\langle
	Anna	100	C P T	hur		ATTE		ATTE	72



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		/		/			www.w	vsct-cert.com	
/	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	[7
	WSCTEE-088	Digital Power Meter	8716C	870906281	2019.08.14	2020.08.13	Qingdao Qingzhi		
[7	WSCTEE-089	Digital Power Meter	8716C	870906280	2019.08.14	2020.08.13	Qingdao Qingzhi		
	WSCTEE-090	Data Acquisition /Switch Unit	34970A	MY52051354	2019.08.14	2020.08.13	Agilent	\geq	\leq
/	WSCTEE-091	Data Acquisition /Switch Unit	34970A	MY41030096	2019.08.14	2020.08.13	Agilent		57
	WSCTEE-092	ELectronic Load	IT8512	0020021863 76001048	2019.08.14	2020.08.13	ITECH Eletronics		
- /	WSCTEE-093	ELectronic Load	IT8512	0020021863 74001002	2019.08.14	2020.08.13	ITECH Eletronics		7
	WSCTEE-094	Multi functional gradient measuring instrument	0~90°		2020.03.16	2021.03.15	Wenzhou 7 Nanfang	wis	77
	WSCTEE-095	Probe	TZ-60	V600108	2017.08.17	2020.08.16	Zhilitong		
<u>67</u>	WSCTEE-096	vs Probe	TZ-60	V600208	2017.08.17	2020.08.16	Zhilitong		
	WSCTEE-097	Oscilloscope Carbon	TX-2250		2019.08.14	2020.08.13	ProsKit		
	WSCTEE-098	Oscilloscope Carbon	HP9258	-	2019.08.14	2020.08.13	ProsKit	6	
/	WSCTEE-099	Magnifier	CT-200 U		2019.08.14	2020.08.13			
1	WSCTEE-100	Digital power Meter	WT210	91LA25633	2019.05.22	2020.05.21	YOKOGAWA		
[7	WSCTEE-102	100kg pull & push Scale	SKN-1	3113J03275	2020.03.16	2021.03.15	SUNDOO 7		
	WSCTEE-103	Tracking Index Tester	HD-NH- 1	-	2019.05.06	2020.05.05	HongDu	\geq	\leq
_	WSCTEE-104	Hammer	0.35J	W	2019.08.15	2020.08.14	Shenzhen Zhongzi	_W5	[7
<	WSCTEE-105	Hammer	0.7J	Χ-	2019.08.15	2020.08.14	Shenzhen Zhongzi		
ст	WSCTEE-106	Creepage distance test card	(1.0∼ 10.0)m m	12040909	2019.05.13	2020.05.12	Shenzhen Zhongzi		
	WSCTEE-107	Thermocoupl e	J		2020.03.18	2021.03.17	OMEGA		\langle



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		/		/			www.w	/sct-cert.com	1
/	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	[7
	WSCTEE-108	Electronic load	M9712	0900209601 20912053	2019.08.14	2020.08.13	Maynuo		
[7	WSCTEE-109	Electronic load	M9712	0900209601 20912074	2019.08.14	2020.08.13	Maynuo		
	WSCTEE-110	Electronic load	M9712	0900209601 20912064	2019.08.14	2020.08.13	Maynuo	\rightarrow	\langle
	WSCTEE-111	Electronic load	M9712	- / ///	2019.08.14	2020.08.13	Maynuo	Awrs.	
\langle	WSCTEE-112	Data Acquisition/S witch Unit	34970A	US37048000	2019.08.14	2020.08.13	Agilent		
7 7	WSCTEE-113	Data Acquisition/S witch Unit	34970A	MY44046852	2019.08.14	2020.08.13	Agilent		
	WSCTEE-114	Data Acquisition/S witch Unit	34970A	US37015805	2019.08.14	2020.08.13	Agilent	/	
7	WSCTEE-115	Data Acquisition/S witch	34970A	US37015798	2019.08.14	2020.08.13	Agilent	<u> </u>	511
7	WSCTEE-116	Data Acquisition/S witch Unit	34970A	MY44097129	2019.08.14	2020.08.13	Agilent		
	WSCTEE-117	Data Acquisition/S witch Unit	34970A	US37026031	2019.08.14	2020.08.13	Agilent	\geq	\langle
/	WSCTEE-119	Temperature and humidity meter	KT-903	AWS	2020.03.18	2021.03.17	Shanghai Yijie automation		C 7
1	WSCTEE-120	Pull & Push Scale	NK-50	2050131105 450	2020.03.16	2021.03.15	KANDPI		
CT	WSCTEE-121	Horizontal vertical combustion tester	DTE-DF	'SET° 	2019.08.15	2020.08.14	Shenzhen Huacetong		
	WSCTEE-122	Oscilloscope	TDS301 2B	BO42290	2019.05.06	2020.05.05	Tektronix	ws	E 7
<	WSCTEE-123	Automatic Frequency Converter	KAP-31 030	Χ-	2020.03.16	2021.03.15	Shenzhen Kenuoma		
C T	WSCTEE-182	Suger tester	DTE-D2 00	HCT2014082 100	2019.08.15	2020.08.14	Shenzhen Huacetong	1	
	WSCTEE-184	Signal Generator	SK-D12	-	2019.05.13	2020.05.12	Testo		(
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_	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration Date	Manufacture	Used or not	7 7°
\langle	WSCTEE-185	Pull & Push Scale	10N	5314F01074	2019.08.14	2020.08.13	Wenzhou Sandu		
[7	WSCTEE-186	Test Plug	ZLT-L19	5 1191403	2017.08.17	2020.08.16	Guangzhou Zhilitong		
	WSCTEE-187	Oscilloprobe	P6015A	-)	2019.05.06	2020.05.05	Tektronix	\rightarrow	$\langle \rangle$
	WSCTEE-188	Intelligent modulator	SK7101	20160512-21	2018.03.14	2021.03.13	SUOKETAI	AVES	
/	WSCTEE-202	Test resistance	-	<u> </u>	2017.08.17	2020.08.16			
СТ	WSCTBS-008	Electric vibration test system	DC-220 0-28	130823	2019.08.15	2020.08.14	Suzhou Sushi		
	\mathbf{N}	Breaking Capacity &							/
	WSCTEA-001	Normal Operation Tester	HD-LL-2	11012730	2019.08.15	2020.08.14	HongDu	Aus	
\langle	WSCTEA-002	Pure Resistance Load Power Supplier	HD-RL- 40B	11012727	2019.08.15	2020.08.14	HongDu		
<u>E</u> T	WSCTEA-003	Voltage drop Tester	HD-YL- 2	11012728	2019.08.15	2020.08.14	HongDu		7
	WSCTEA-004	Touch polarity tester	HD-303 AX	11012734	2019.08.15	2020.08.14	HongDu	\geq	
	WSCTEA-006	Dumbbell-knif e	5270	WS	2019.08.15	2020.08.14	Zhilitong	W5	57
$\langle \rangle$	WSCTEA-007	Dumbbell-knif e	D	Χ-	2019.08.15	2020.08.14	Zhilitong		
[7	WSCTEA-008	Soft cable's flexibility tester	HD-730 2	511012729	2019.08.15	2020.08.14	HongDu		
	WSCTEA-009	Image measurement instrument	YVM201 0VT	110462	2019.08.15	2020.08.14	DONGGUAN YUANXIN	\geq	\langle
/	WSCTEA-010	Cable retention tester	JN-BCL- 2099	BCL-2099-11 76	2019.08.15	2020.08.14	JEN	S	[7
	WSCTEA-011	Plug Bending Tester	HD-887 0	11012726	2019.08.15	2020.08.14	HongDu		

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	Code	Name	Model/ Type	S/N WS	Calibrated date	Next Calibration	Manufacture	Used or not	[7
$\langle \rangle$		testing under	.)po	X		Date	$- \times$		
СТ	WSCTEA-012	high temperature	HD-PHT -1	11012732	2019.08.15	2020.08.14	HongDu		
		& pressure equipment			/				/
	WSCTEA-013	Heat cable distortion tester	HD-812 0	-	2019.08.15	2020.08.14	HongDu		
<	WSCTEA-009	Image measuring instrument	KA-300	110462	2019.08.15	2020.08.14	Yanuxnig		
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