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LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for:

EDA Technology Shanghai Co.,Ltd
Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Product: CM4 AI CAMERA

Trade Mark:

Model Name: ED-AIC2000, ED-AIC2000-120, ED-AIC2000-023, ED-

AIC2000-020, ED-AIC2000-016

Date of Test: Jan. 03, 2025 to Jan. 18, 2025

Date of Report: Jan. 18, 2025

Report Number: HK2501030026-SR

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

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Bao'an District, Shenzhen, Guangdong, China

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TEST REPORT EN 62368-1

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

Report Number.....: HK2501030026-SR

Date of issue 2025-01-18

Total number of pages 81 pages

Applicant's name: EDA Technology Shanghai Co., Ltd

Address...... Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test specification:

Standard : EN IEC 62368-1:2020 + A11:2020

Test procedure.....: CE-LVD

Non-standard test method: N/A

Test Report Form No.....: IEC62368 1C

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

Master TRF.....: 2019-01-17

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General disclaimer:

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

Test Item description:	CM4 AI CAMERA
Trade Mark:	
Manufacturer	EDA Technology Shanghai Co.,Ltd
Manufacturer Address	Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC
Model/Type reference	ED-AIC2000, ED-AIC2000-120, ED-AIC2000-023, ED-AIC2000-020, ED-AIC2000-016
Ratings	Input: 24VDC, 1.5A, 36W MAX

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	. 505		. 555
Testing procedure and testing location:			
	Shenzhen HUAK Testir	ng Technology Co.,	Ltd.
Testing location/ address	: 1-2/F., Building B2, Jun Innovation Park, Heping Shenzhen, Guangdong	g, Fuhai Street, Bao	
Associated Testing Laboratory:		TESTING	
Testing location/ address	HUAN TESTING	O HUAN	HUAK TESTING
Tested by (name + signature)	Paco Zhang	Paco 2h Dend	ang
Approved by (name + signature)	: Dendi Wei	Denot	Tuel
Testing procedure: TMP/CTF Stage 1	W TESTING	ok TESTING	A TESTING
Testing location/ address	: 0 No.	(a) Hope	O mulan
Tested by (name + signature)	- STING	HUAK TES	ESTING
Approved by (name + signature)	(HIAN	0	HUAR
☐ Testing procedure: WMT/CTF Stage 2	: LG THG MH	AK.	TNG
Testing location/ address	Municipal	O HUAKTES !!	MANAGES .
Tested by (name + signature)	:		
Witnessed by (name + signature)	•G	TESTING	TESTING
Approved by (name + signature)	- HUAR	(I) HUAN	O HUAN
Testing procedure: SMT/CTF Stage 3 or 4:	NAV TESTING	MINY TESTIN	"JAKTESTING
Testing location/ address	: 0	ax TESTING	
Tested by (name + signature)	STANG TESTING OF PARTY	ESTING	" TESTING
Witnessed by (name + signature)	- Mary	HUARCAL	O HUM
Approved by (name + signature)	:		
Supervised by (name + signature)	18 TING	TING	TING

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

-Appendix 1: For requirements of European group differences. (21 pages)

-Appendix 2: Photo attachments. (9 pages)

Summary of testing:

Tests performed (name of test and test clause):

All clauses.

Testing location:

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences:

European group differences.

☐ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020.

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Copy of marking plate:

The artwork below may be only a draft.



CM4 AI CAMERA Model: ED-AIC2000 Input: 24VDC, 1.5A, 36W MAX



EDA Technology Shanghai Co.,Ltd Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

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Test item particulars:	W.TESTING WAY.TESTING
Product group:	
Classification of use by:	☐ Ordinary person☐ Children likely present
ane ane	
MY TESTING WANTESTING	Skilled person Skil
Supply connection:	AC mains DC mains
STING V. TESTING	☐ not mains connected:☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	
(I) HUIM	<u>+20%/-15%</u>
W TESTING	
THE HUAN	None
Supply connection – type:	pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
Sta Sta	direct plug-in
AN TESTING HAN TESTING	☐ pluggable equipment type B - ☐ non-detachable supply cord
	appliance coupler
TING	permanent connection
STING HUAKTES.	mating connector
HUAKTER	⊠ other:
Considered current rating of protective	A;
device:	Location: building equipment
Equipment mobility:	N/A⋈ movable⋈ hand-held⋈ transportable
Equipment mobility	direct plug-in stationary for building-in
	wall/ceiling-mounted SRME/rack-mounted
	other:
Overvoltage category (OVC):	
W. C. HUAK I.	OVC IV Sother:
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ other:
Special installation location:	N/A □ restricted access area
W.TESTINES ALLAND	outdoor location other:
Pollution degree (PD):	□ PD 1 □ PD 3
Manufacturer's specified T _{ma} :	25°C Outdoor: minimum °C
IP protection class:	
Power systems:	☐ TN ☐ TT ☐ IT V _{L-L}
August 19 Mary	⊠ not AC mains
Altitude during operation (m):	
Altitude of test laboratory (m):	
Mass of equipment (kg):	<7 kg

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POSSIBLE TEST CASE	VERDICTS:	LAN TESTING	Y TESTING	LOK TESTING
- test case does not appl	y to the test object:	N/A	MINN.	M. HO.
- test object does meet tl	ne requirement:	P (Pass)		
- test object does not me	et the requirement:	F (Fail)	, n/G	-mJG
GENERAL REMARKS:	ES" - WANTES"	- WAYTES!	THAK TES IN	- WAK TES III
	fers to additional informatio ' refers to a table appended t		oort.	9
10%	t a □ comma / ⊠ point is us e OSM decisions have been		7	fulfilled
Determination of the t equipment and metho	est result includes consider ds.	ation of measuremer	nt uncertainty from	the test
Manufacturer's Declara	ation per sub-clause 4.2.5 of	ECEE 02:	LOK TESTING	- JUAN TESTIN
includes more than one declaration from the Mar sample(s) submitted for representative of the pro	nufacturer stating that the	YesNot applicable		
(32)	; they shall be identified in th	e General product inf	formation section.	(39)
Name and address of f	factory (ies):	Same as manufacture	THANTES!	UAK TESTING
GENERAL PRODUCT I	NFORMATION:	.,,,		
plastic and metal, the	AMERA. The electronic composition material of min.V-1 grade.	UAN TESTINE	JAK TESTING	is made of
1	iagram circuit, PCB layout, ex	- 0.00	0.00	
Additional application N/A	considerations – (Considera	ations used to test a c	component or sub	-assembly) –
Revision	Description	Issued Dat	ta Rer	mark
Revision 1.0	Initial Test Report Releas	se 2025/01/18	3 Jasor	n Zhou
Revision 2.0	All test data were obtaine from: HK2501030025-S	2025/01/1	3 Jasor	n Zhou
(a)		9		

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OVERVIEW OF EMPLOYED SAFE	EGUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed	ES1: Input terminal	N/A	N/A	N/A
Ordinary; Instructed	ES1: Internal circuits	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
Ordinary; Instructed	PS2: Input terminal	N/A	N/A	N/A
7.1	Injury caused by hazardous	ous substances		
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
N/A CTESTING	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	MS1: sharp edges and corners	N/A	N/A	N/A
Ordinary; Instructed; Skilled	MS1: weight	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source	Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
Ordinary person	RS1: LED	N/A	N/A	N/A

Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault

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ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

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WAK TES	EN 62368-1	MAK TEST	JAKTE
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1 STA	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	ALLAK TY P
4.1.2	Use of components	See table 4.1.2	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury	AK TESTIPS
4.1.4	Specified ambient temperature for outdoor use (°C)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	N/A
4.1.5	Constructions and components not specifically covered	TESTING AK TESTING	N/A
4.1.8	Liquids and liquid filled components (LFC)	(See G.15)	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	HUARE	STING P
4.4.3.1	General	-1G	Р
4.4.3.2	Steady force tests	(See Clause T.3, T.4, T.5)	Р
4.4.3.3	Drop tests	STIME WITESTING	N/A
4.4.3.4	Impact tests	O House O H	Р
4.4.3.5	Internal accessible safeguard enclosure and barrier tests		Р
4.4.3.6	Glass Impact tests	(See Clause T.9, Annex U)	N/A
4.4.3.7	Glass fixation tests	0,	N/A
TESTING	Glass impact test (1J)	TESTING	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	5 ^{TIMB} P
4.4.3.9	Air comprising a safeguard:	(See Annex T)	Р
4.4.3.10	Accessibility, glass, safeguard effectiveness	HUAK TESTI	Р
4.4.4	Displacement of a safeguard by an insulating liquid	TIME WHATESTINE	N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	No explosion	Р
4.5.1	General	(See Annex M for batteries)	N/A
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	N/A

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OK TESTIN	EN 62368-1	NY TESTING	JAK TES.
Clause	Requirement + Test	Result - Remark	Verdict
	condition		
HUAKTESTING	No harm by explosion during single fault conditions	(See Clause B.4)	N/A
4.6	Fixing of conductors	TING	N/A
KTES	Fix conductors not to defeat a safeguard	HUAKTE	N/A
	Compliance is checked by test	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socket - outlets	THE WHILL TESTING	N/A
4.7.2	Mains plug part complies with the relevant standard:	See below	N/A
4.7.3	Torque (Nm)		N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.1	General	HUNKIL	N/A
4.8.2	Instructional safeguard	O O	N/A
4.8.3	Battery compartment door/cover construction	Not such construction	N/A
	Open torque test	HUAK'	N/A
4.8.4.2	Stress relief test	TESTING	N/A
4.8.4.3	Battery replacement test	TING WHUM	N/A
4.8.4.4	Drop test	(See Clause T.7)	N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance	TESTINGS WAY TESTINGS	N/A
)	30N force test with test probe	0, 0	N/A
CTESTING	20N force test with test hook	, YTESTING	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	O HUNK!	N/A
4.10	Component requirements	AKTESTING.	N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays	(See Annex G)	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources	JAKTESTING	IN TEPING
5.2.2	ES1, ES2 and ES3 limits ES1	0,,,	Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	ESTINGS LOW TESTINGS	N/A
5.2.2.4	Single pulse limits:	No such single pulses with the EUT	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses with the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals:	MAKTESTIN	Р
5.3	Protection against electrical energy sources	STIME STIME	TESTP
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	TESTING HUAKTESTING	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	- ELIME	Р
K	Accessibility to outdoor equipment bare parts	HILITER	N/A
5.3.2.2	Contact requirements	O HUM	N/A
110	Test with test probe from Annex V:	N. TESTING	N/A
5.3.2.2 a)	Air gap – electric strength test potential (V):	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm):	HUNKTE	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	N/A
5.4	Insulation materials and requirements	STING	N/A
5.4.1.2	Properties of insulating material	HUARTE	N/A
5.4.1.3	Material is non-hygroscopic		N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table)	N/A
5.4.1.5	Pollution degree	Pollution degree 2	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2	N/A
5.4.1.5.3	Thermal cycling	Pollution degree 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	0	N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage:	ESTING TESTING	N/A
5.4.1.9	Insulating surfaces	HUAN	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	See below	N/A
5.4.1.10.2	Vicat softening temperature:	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances	HUAKTES!	N/A
5.4.2.1	General requirements	MINK.	N/A
We.	Clearances in circuits connected to AC Mains, Alternative method	THE WHATESTING	N/A
5.4.2.2	Procedure 1 for determining clearance	JAK TESTING	N/A
0	Temporary overvoltage:	0,00	
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage:	ESTING	_
5.4.2.3.2.3	d.c. mains transient voltage:	O HILAN	_
5.4.2.3.2.4	External circuit transient voltage	ESTING	_
5.4.2.3.2.5	Transient voltage determined by measurement:	MANAGE OF THE STATE OF THE STAT	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	W. TESTING	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	STING WHATESTING	N/A
5.4.2.6	Clearance measurement	(See appended table 5.4.2.6)	N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	N/A
5.4.3.1	General	TESTING AY TESTING	N/A
5.4.3.3	Material Group:	IIIb O	
5.4.3.4	Creepage distances measurement	(See appended table 5.4.3)	N/A
5.4.4	Solid insulation	HUARTE	N/A
5.4.4.1	General requirements	(HOVE	N/A
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	N/A
5.4.4.3	Insulation compound forming solid insulation	STIME MAN STIME	N/A
5.4.4.4	Solid insulation in semiconductor devices	HUAKTE	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	ESTIN LAKTESTING	N/A
5.4.4.6.2	Separable thin sheet material	(a) (b)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material	ESTING ON TESTINGS	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test	- MAKTES	N/A
5.4.4.7	Solid insulation in wound components	THI DAY.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, EP, KR, d, VPW (V)	(See appended Table 5.4.4.9)	N/A
HUAK TESTIN	Alternative by electric strength test, tested voltage (V), KR	(See appended Tables 5.4.4.9 and 5.4.9)	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	ESTING	N/A
5.4.5.3	Insulation resistance (MΩ):	O HUM	N/A
TNG	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard:	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints	W.TESTING	N/A
5.4.8	Humidity conditioning	TIME HOME	N/A
HUAKTES	Relative humidity (%):	HURKIES	_
	Temperature (°C):		_
	Duration (h):		
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.9.1	Test procedure for a solid insulation type test	© HID.	N/A
5.4.9.2	Test procedure for routine tests	TING	N/A
5.4.10	Protection against transient voltages between external circuit	MUNK TES	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods	S HUAN TE	N/A
5.4.10.2.1	General	STATE STATE	N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test:	(See appended table 5.4.9)	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	ESTING TAKTESTING	N/A
5.4.11	Separation between external circuits and earth	6 H	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1	Exceptions to separation between external circuits and earth	ESTING TESTING	N/A
5.4.11.2	Requirements	MIN MIN MAN	N/A
, NG	Rated operating voltage U _{op} (V):	an)G	_
KTEST	Nominal voltage U _{peak} (V):	- MAK TESTU	
	Max increase due to variation U _{sp} :	HUAKT	
NG.	Max increase due to ageing ΔU _{sa} :	ESTING IS	_
5.4.11.3	Test method and compliance:	(See appended table 5.4.9)	N/A
5.4.12	Insulating liquid	MAKIES THE	N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.3	Compatibility of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.4	Container for insulating liquid:	HUAR-	N/A
5.5	Components as safeguards	200	
5.5.1	General	- MAYTES!	N/A
5.5.2	Capacitors and RC units	HUAKT	N/A
5.5.2.1	General requirement	- CTING	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	WINE OF	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	TESTING	N/A
5.5.7.2	Use of an SPD between mains and protective earth	WHITE.	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	THIS WAY TESTING	N/A
	RCD rated residual operating current (mA):		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	ESTING TESTING	N/A
5.6.2.1	General requirements	White is	N/A
5.6.2.2	Colour of insulation		N/A

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TING	EN 62368-1	STIME THE	TESTING (
Clause	Requirement + Test	Result - Remark	Verdict
5.6.3	Requirement for protective earthing conductors		N/A
MAKTESTIN	Protective earthing conductor size (mm²)	TESTI "	_
, mic	Protective earthing conductor serving as a reinforced safeguard		N/A
X TES	Protective earthing conductor serving as a double safeguard	MAKTES	N/A
5.6.4	Requirement for protective bonding conductors	We O	N/A
5.6.4.1	Protective bonding conductors	- WANTES!	N/A
TESTING	Protective bonding conductor size (mm²)	STING TESTING	_
5.6.4.2	Protective current rating (A):	O HUM	_
5.6.5	Terminal size for connecting protective earthing conductors (mm):		N/A
5.6.5.1	Terminal size for connecting protective bonding conductors (mm)	ESTING HAR TESTING	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system	HAVTESTIL	N/A
5.6.6.1	Requirements	O WARTE	N/A
5.6.6.2	Test Method	(See appended table 5.6.6)	N/A
5.6.6.3	Resistance (Ω) or voltage drop	(See appended table 5.6.6)	N/A
5.6.7	Reliable connection of a protective earthing conductor	HUAN TEETING OF	N/A
5.6.8	Functional earthing		N/A
.16	Conductor size (mm²):	- 16	N/A
"IAK TESTIME	Class II with functional earthing marking:	TESTA	N/A
)	Appliance inlet cl & cr (mm)	0)	N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 was used in determining of the limit of ES1.	N/A
5.7.2.1	Measurement of touch current	STING	N/A
5.7.2.2	Measurement of prospective touch voltage	THE HUME	N/A
5.7.3	Equipment set-up, supply connections and earth connections	WAKTES IN ON	N/A
5.7.4	Unearthed accessible parts:	(See appended table 5.7.4)	N/A
5.7.5	Earthed accessible conductive parts:	(See appended table 5.7.5)	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	TES .	N/A
n/G	Protective conductor current (mA)	Dia.	N/A

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W TESTI	EN 62368-1	STIME WATESTING	LAK TESTING (II)
Clause	Requirement + Test	Result - Remark	Verdict
-1G	Instructional Safeguard:	. Oc.	N/A
5.7.7	Prospective touch voltage and touch current due to external circuits	ESTA WAKTESTA	N/A
5.7.7.1	Touch current from coaxial cables	alle a	N/A
5.7.7.2	Prospective touch voltage and touch current from external circuits	MAKTEST	N/A
5.7.8	Summation of touch currents from external circuits	V TESTING W.	N/A
AKTESTI	a) Equipment with earthed external circuits Measured current (mA)	THIS HOLD THE THE	N/A
(a)	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	0,112	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
LAKTESTING	Mains terminal ES	(See appended table 5.8)	N/A
D 1400	Air gap (mm)	0	N/A

6	ELECTRICALLY- CAUSED FIRE		STING P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	STANG THE	N/A
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and	l abnormal operating conditions	N/A
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	(See appended table B.1.5 and B.3)	N/A
TESTING	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4	Safeguards against fire under single fault conditions		STIME P
6.4.1	Safeguard Method	Approved fire enclosure used	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	TING HUAYTESTING	P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	MINACTES III	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions	(See appended table B.4)	N/A
HUAKTEST	Special conditions for temperature limited by fuse	FES. WHAK FES.	N/A
6.4.4	Control of fire spread in PS1 circuits	0	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards:	TESTING TAK TESTING	N/A
6.4.6	Control of fire spread in PS3 circuit	0, 0	N/A
6.4.7	Separation of combustible materials from a PIS	TSTING.	N/A
6.4.7.2	Separation by distance	White the state of	N/A
6.4.7.3	Separation by a fire barrier	O HUA	N/A
6.4.8	Fire enclosures and fire barriers	ox TESTING	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	TIME MANAGEMENT	N/A
6.4.8.2.1	Requirements for a fire barrier	HUANTE	N/A
6.4.8.2.2	Requirements for a fire enclosure	9	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	- STING - STING	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	No opening	N/A
	Openings dimensions (mm)	O HO	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	ON TESTINE	N/A
HAKTESTIN	Flammability tests for the bottom of a fire enclosure	THAT TETING	N/A
6.4.8.3.5	Side openings and properties	0, 0	N/A
	Openings dimensions (mm)		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	ESTING WAY TESTING	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	V-0 enclosure used	N/A
6.4.9	Flammability of insulating liquid	HUAKTES	N/A
6.5	Internal and external wiring	HUNK	N/A
6.5.1	Requirements	ESTING	N/A
6.5.2	Requirements for interconnection to building wiring	TING HUAR	N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	O HUM O M	N/A
6.6	Safeguards against fire due to connection to additional equipment	(See Annex Q.)	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	N/A	

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	THE HUM	C MO HUM	A 40
	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	O IN Page	N/A
7.4	Use of personal safeguards (PPE)	- Dian	N/A
IX TEST	Personal safeguards and instructions	WAKTES	_
7.5	Use of instructional safeguards and instructions	HUMEN	N/A
yG	Instructional safeguard (ISO 7010)	CSTING CONTRACTOR	_
7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	P
8.3	Safeguards against mechanical energy sources	(a) Harris	N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	P
8.4.1	Safeguards		Р
	Instructional Safeguard	JAK TESTION	Р
8.4.2	Sharp edges or corners	TIME WAS TO THE TENTE	TESTP ⁶
8.5	Safeguards against moving parts	HUAR DE	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
HUAKTESTING	MS2 or MS3 part required to be accessible for the function of the equipment	ESTING HUAK TESTING	N/A
"	Moving MS3 parts only accessible to skilled person	9	N/A
8.5.2	Instructional Safeguard:	V TESTING	_
8.5.4	Special categories of equipment comprising moving parts	O HO.	N/A
8.5.4.1	General	V TESTING	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	TING WHILE	N/A
8.5.4.2.1	Protection of persons in the work cell	HUAKTE	N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	ESTING	N/A
8.5.4.2.3	Emergency stop system	© Hrran	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Maximum stopping distance from the point of activation (m)	ESTING ESTING	N/A
HUAIC	Space between end point and nearest fixed mechanical part (mm):	O HUAN	N/A
8.5.4.2.4	Endurance requirements	ox TESTING	N/A
	Mechanical system subjected to 100 000 cycles of operation	O HUAKTY	N/A
(3	- Mechanical function check and visual inspection	WESTING	N/A
-TIN	- Cable assembly	STING WHO!	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	O HIAKTE OH	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:	ESTING TESTING	N/A
8.5.4.3.3	Disconnection from the supply	HUAK	N/A
8.5.4.3.4	Cut type and test force (N):	- NG	N/A
8.5.4.3.5	Compliance	- HUNK TEST	N/A
8.5.5	High Pressure Lamps	HUNCT	N/A
G	Explosion test :	ESTING (S)	N/A
8.5.5.3	Glass particles dimensions (mm):	ING MUNKER	N/A
8.6	Stability of equipment	JAK TESTING AM	N/A
8.6.1	Product classification		N/A
	Instructional Safeguard:		_
8.6.2	Static stability	ESTING ESTING	N/A
8.6.2.2	Static stability test	HUAR.	N/A
8.6.2.3	Downward Force Test	, de la constant de l	N/A
8.6.3	Relocation stability test	WANTES!"	N/A
	Wheels diameter (mm)	HUAKT	
G	Tilt test	ESTING	
8.6.4	Glass slide test	THIS HUNK.	N/A
8.6.5	Horizontal force test (Applied Force):	HIAKTESTI	N/A
8.7	Equipment mounted to wall or ceiling	(a)	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	elen elem	N/A
8.7.2	Direction and applied force:	TES!	N/A
3	Test 1, additional downwards force (N):	0	N/A

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	EN 62368-	TESTING	
Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Test 2, number of attachment points and test force (N)		N/A
HUAR	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength	W.TESTING	N/A
8.8.1	Classification	THE HUNT	N/A
8.8.2	Handle strength test	ale O	N/A
	Number of handles	JUANTESTA	N/A
TESTIN	Force applied (N)	TESTING	N/A
8.9	Wheels or casters attachment requirements	O HUAD O H	N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers	Olea Sta	N/A
8.10.1	General	UAN TESTIN	N/A
8.10.2	Marking and instructions	0, 0	N/A
8.10.3	Cart, stand or carrier loading test and compliance	TETNE	N/A
30	Loading force applied (N)	THE HUMAN	_
8.10.4	Cart, stand or carrier impact test	0 100	N/A
8.10.5	Mechanical stability	JAY TESTINA	N/A
ESTIN	Force applied (N)	TETING WITH	_
8.10.6	Thermoplastic temperature stability	HI AMED H	N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails	LAY TESTINE	N/A
	Instructional Safeguard	: 0	N/A
8.11.3	Mechanical strength test	TETNE	N/A
8.11.3.1	Downward force test, force (N) applied:	THE HUARTE	N/A
8.11.3.2	Lateral push force test	(i) HUSA	N/A
8.11.3.3	Integrity of slide rail end stops	A. TESTING	N/A
8.11.4	Compliance	TIME MALE	N/A
8.12	Telescoping or rod antennas	HUAKTE	N/A
	Button/Ball diameter (mm)		

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EN 623	368-1	STING WAY TESTING
Requirement + Test	Result - Remar	k Verdict
THERMAL BURN INJURY		Р
Thermal energy source classifications		Р
Touch temperature limits		Р
Touch temperatures of accessible parts	:	Р
Test method and compliance		Р
Safeguard against thermal energy sources		Р
Requirements for safeguards		Р
Equipment safeguard		Р
Instructional safeguard	:	N/A
Requirements for wireless power transmitters	3	N/A
General		N/A
Specification of the foreign objects		N/A
Test method and compliance	: (See appended table 9.6)) N/A
	THERMAL BURN INJURY Thermal energy source classifications Touch temperature limits Touch temperatures of accessible parts Test method and compliance Safeguard against thermal energy sources Requirements for safeguards Equipment safeguard Instructional safeguard Requirements for wireless power transmitters General Specification of the foreign objects	THERMAL BURN INJURY Thermal energy source classifications Touch temperature limits Touch temperatures of accessible parts: Test method and compliance Safeguard against thermal energy sources Requirements for safeguards Equipment safeguard Instructional safeguard: Requirements for wireless power transmitters General Specification of the foreign objects

10	RADIATION		STING P
10.2	Radiation energy source classification	HUAN	Р
10.2.1	General classification	RS1	Р
- TEV	Lasers	TING HUAN	CITIES (II)
HUAKTES	Lamps and lamp systems:	HUAKTES	AKIC
	Image projectors	9	_
	X-Ray:		
AK TESTING	Personal music player	TESTING ON TESTING	AKTESTING
10.3	Safeguards against laser radiation	O Marie	N/A
KTESTING	The standard(s) equipment containing laser(s) comply:	LAKTESTING	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)	LED MARKET	Р
10.4.1	General requirements	MAKTESTING	N/A
HUAKTESTIN	Instructional safeguard provided for accessible radiation level needs to exceed	THIS WILL TETTING	N/A
	Risk group marking and locati	9	N/A
a)G	Information for safe operation and installation	Dia Dia	N/A
10.4.2	Requirements for enclosures	EST	N/A
),,,	UV radiation exposure:	(See Annex C)	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.4.3	Instructional safeguard:	Ola Ola	N/A
10.5	Safeguards against X-radiation	ESTINA TESTINA	N/A
10.5.1	Requirements	0, 0	N/A
TESTING	Instructional safeguard for skilled persons:	TESTING	N/A
10.5.3	Maximum radiation (pA/kg)	(See appended tables B.3 & B.4)	N/A
10.6	Protection against acoustic energy sources	.g 0 W	N/A
10.6.1	General	"IAKTESTIL"	N/A
10.6.2	Classification	STING OF THE	N/A
HUAK	Acoustic output LAeq,T, dB(A)	HUAN.	N/A
	Unweighted RMS output voltage (mV):		N/A
-G	Digital output signal (dBFS):	.0	N/A
10.6.3	Requirements for dose-based systems	ESTITUE	N/A
10.6.3.1	General requirements	0, 0	N/A
10.6.3.2	Dose-based warning and automatic decrease	TESTING	-
10.6.3.3	Exposure-based warning and requirements	White Water	
3	30 s integrated exposure level (MEL30):	TONG (II)	
	Warning for MEL ≥ 100 dB(A):	C MUNICIPAL TESTA	N/A
10.6.4	Measurement methods	STAND WE TESTING	N/A
10.6.5	Protection of persons	0 m 0 m	_
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	ESTING WAY TESTING	_
10.6.6.1	Corded listening devices with analogue input	(a)	N/A
TESTING	Listening device input voltage (mV)	JAK TESTING	_
10.6.6.2	Corded listening devices with digital input	O NOTE TO A STATE OF THE PARTY	_
3	Max. acoustic output LAeq,T, dB(A):	TING OF THE	_
10.6.6.3	Cordless listening devices	- G HUAKTES!	_
ak TESTING	Max. acoustic output LAeq,T, dB(A):	THE THE	_

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NY TESTINY	MAK TESTING (II)	EN 62368-1	OK TESTING		IAK TESTING
Clause	Requirement +	Test	Result - Remark	.	Verdict

В	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT COND		P
B.1	General	White a	HUANC P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal Operating Conditions	WAY TEST	TING P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
TIME	Audio Amplifiers and equipment with audio amplifiers	THUS HUAR TEST	N/A
B.2.3	Supply voltage and tolerances	HIAKTES	N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings	O mm	N/A
B.3.3	D.C. mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector:	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	A TESTING	N/A
B.3.6	Reverse battery polarity	No battery within the EUT	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	O HIGH TE O H	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	Р
B.4	Simulated single fault conditions	TEST	WAK TEP
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	N/A
B.4.3	Motor tests	HUNKTE	of N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	A HUAK TEST	N/A
B.4.4.1	Short circuit of clearances for functional insulation	STITULE WITE TIME	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	O HUMAN O H	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	STING STING	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	O MARIE O	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.4.6	Short circuit or disconnect of passive components		Р
B.4.7	Continuous operation of components	TESTING.	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	0,00	Р
B.4.9	Battery charging under single fault conditions:	No battery involved in the EUT	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	- WAY TESTING	N/A
C.1.2	Requirements	STIME W.	N/A
C.1.3	Test method	O HUAR	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	Otro Otro	N/A
C.2.2	Mounting of test samples	TESTA.	N/A
C.2.3	Carbon-arc light-exposure apparatus	(a)	N/A
C.2.4	Xenon-arc light exposure apparatus	TESTING	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	O HILL	N/A
D.2	Antenna interface test generator	JAK TESTING	N/A
D.3	Electronic pulse generator	SIMG WHO,	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audi	o signals	N/A
	Maximum non-clipped output power (W):		_
JAKTESTING	Rated load impedance (Ω)	TESTING.	_
1,000	Open-circuit output voltage (V)	0,,,,	_
TESTING	Instructional safeguard:	See Clause F.5	
E.2	Audio amplifier abnormal operating conditions	HUAR	N/A
	Audio signal source type	O House	N/A
G.	Audio output power (W):	MANTESIAN	N/A
K TESTIN	Audio output voltage (V)	STILE THE	N/A
O HIM	Rated load impedance (Ω):	O Hour O H	N/A
	Requirements for temperature measurement	(See Table B.1.5)	N/A
E.3	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	HUANTE P
F.1	General requirements		Р

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	Instructions – Language	Evaluated the user manual in English version. The manufacturer commits to provide them in the language of the countries where the product will be distributed.	_
F.2	Letter symbols and graphical symbols	- WAKTEEL	-TING P
F.2.1	Letter symbols according to IEC60027-1	W HUNKT	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	WAY TESTING	Р
F.3	Equipment markings	ESTING OF	TESTP ^G
F.3.1	Equipment marking locations	On the product	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification:	See marking	_
F.3.2.2	Model identification	See marking	_
F.3.3	Equipment rating markings	0,	Р
F.3.3.1	Equipment with direct connection to mains	- STING	N/A
F.3.3.2	Equipment without direct connection to mains	HUAN	STING P
F.3.3.3	Nature of supply voltage	See marking	_
F.3.3.4	Rated voltage:	See marking	_
F.3.3.4	Rated frequency:	See marking	_
F.3.3.6	Rated current or rated power:	HUARTE	_
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices	TESTING.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	0,00	N/A
F.3.5.2	Switch position identification marking:	- WAKTES	N/A
F.3.5.3	Replacement fuse identification and rating markings	THE WHITE	N/A
F.3.5.4	Replacement battery identification marking:	WAX TESTING	N/A
F.3.5.5	Terminal marking location	STIME TESTING	N/A
F.3.6	Equipment markings related to equipment classification	O HONG ON	N/A
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal	ESTING LESTING	N/A
F.3.6.1.2	Neutral conductor terminal	O Mrs.	N/A
F.3.6.1.3	Protective bonding conductor terminals	-0-	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth	TESTING THE TESTING	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	0 m	N/A
F.3.7	Equipment IP rating marking	IPX0	_
F.3.8	External power supply output marking	Marked on the label	Р
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	P ETING
F.3.10	Test for permanence of markings	Complied	P
F.4	Instructions	9	Р
	a) Information prior to installation and initial use		Р
A HUAKTESTING	b) Equipment for use in locations where children not likely to be present	ESTING HARK TESTING	MAK TE PING
9	c) Instructions for installation and interconnection		Р
IK TESTING	d) Equipment intended for use only in restricted access area	HIAKTESTING	N/A
2	e) Equipment intended to be fastened in place	₩ _O	N/A
Me	f) Instructions for audio equipment terminals	NK TESTINES	N/A
-cTI	g) Protective earthing used as a safeguard	TIME WHILE	N/A
HUAKTE	h) Protective conductor current exceeding ES2 limits	O HUME TO O H	N/A
	i) Graphic symbols used on equipment		Р
	j) Permanently connected equipment not provided with all-pole mains switch	ESTINGAK TESTING	N/A
D. TING	k) Replaceable components or modules providing safeguard function	(a)	N/A
IK TES	Equipment containing insulating liquid	HUNKTES	N/A
	m) Installation instructions for outdoor equipment	HUME	N/A
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
G	COMPONENTS		N/A
G.1	Switches	O HUAD	N/A
G.1.1	General requirements		N/A
G.1.2	Ratings, endurance, spacing, maximum load	aug aug	N/A
G.1.3	Test method and compliance	TES!	N/A
G.2	Relays	(a)	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.2.1	General requirements		N/A
G.2.2	Overload test	TESTING LANTESTING	N/A
G.2.3	Relay controlling connectors supply power	0,,0	N/A
G.2.4	Mains relay, modified as stated in G.2	STIVG	N/A
G.3	Protection Devices	HUARTE	s ^{MG} N/A
G.3.1	Thermal cut-offs	O III III	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	THE WHILE TESTING	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	HUMAK TESTING OF	N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links	TESTING TESTING	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	O HUND	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	TWG	N/A
X TES	Aging hours (H)	HUNCTES	_
6	Single Fault Condition	HIAK.	_
JG ,	Test Voltage (V) and Insulation Resistance (Ω). :	TESTING	_
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	0 m	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	ESTING ON TESTING	N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A
G.4	Connectors	STING	N/A
G.4.1	Spacings	HUAKTE	N/A
G.4.2	Mains connector configuration:	O HUAR	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	NG HUNYTETING	N/A
G.5 METESTIN	Wound Components	SETTING THE STATE OF THE STATE	N/A
G.5.1	Wire insulation in wound components	0 m 0 m	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	.0	N/A
G.5.1.2 b)	Construction subject to routine testing	TESTING IAK TESTING	N/A
G.5.2	Endurance test on wound components	© ©	N/A

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AK TESTIN	EN 62368-1	ESTI WE TESTINE	IAK TESTI
Clause	Requirement + Test	Result - Remark	Verdict
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	TESTI TIME TO THE TESTING	N/A
1	Time (s)	0,	
TESTING	Temperature (°C)	TSTING	
G.5.2.3	Wound Components supplied by mains	HUAN	N/A
G.5.3	Transformers	(HUN	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	TING HUAY TESTING	N/A
MAKTESTI	Position:	MAKTESIII	_
(ii)	Method of protection:	0	_
G.5.3.2	Insulation		N/A
TESTING	Protection from displacement of windings:	ESTING	_
G.5.3.3	Overload test	White.	N/A
G.5.3.3.1	Test conditions	- Dira	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	WAKTESTA	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	White.	N/A
G.5.4	Motors	STING	N/A
G.5.4.1	General requirements	ING HUAR	N/A
MAKTESTIN	Position:	JAN TESTING H	_
G.5.4.2	Test conditions	0	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test	ESTING	N/A
HUAK	Test duration (days):	HUAR I	_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	TESTING	N/A
G.5.4.5.2	Tested in the unit	HUAN	N/A
G	Electric strength test (V):	of the House	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	THE HUAKTES III	N/A
HUAKTESI	Electric strength test (V):	HUAKTES	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
G.5.4.6.2	Tested in the unit	TING	N/A
HUAKTES	Maximum Temperature:	HUNKTE	N/A
į.	Electric strength test (V)		N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	TESTING	N/A
HUPIC	Electric strength test (V)	MIAN S	N/A
G.5.4.7	Motors with capacitors	Dlan	N/A
G.5.4.8	Three-phase motors	WANTES	N/A
G.5.4.9	Series motors	March	N/A
G	Operating voltage	STING	_
G.6	Wire Insulation	G HUAK S	N/A
G.6.1	General	LIAN TESTING	N/A
G.6.2	Solvent-based enamel wiring insulation	0,00	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	THE STATE	N/A
HUAKTE	Type:	HUAKT	_
	Type: Rated current (A):		_
KTESTING	Cross-sectional area (mm²), (AWG)	JAKTESTIME	_
G.7.2	Compliance and test method	O Mr.	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	LAK TESTING	N/A
G.7.3.2	Cord strain relief	ic Min	N/A
G.7.3.2.1	Requirements	HIAK IL	N/A
	Strain relief test force (N):		
G.7.3.2.2	Strain relief mechanism failure	in the second	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	TAK TESTING	_
G.7.3.2.4	Strain relief comprised of polymeric material	9 10	N/A
G.7.4	Cord Entry	TESTING.	N/A
G.7.5	Non-detachable cord bend protection	HUANTE	N/A
G.7.5.1	Requirements	O HUM	N/A
G.7.5.2	Test method and compliance	MKTESTING	
- JUAK TESTIN	Overall diameter or minor overall dimension, D (mm)	TO THE WAY TESTING	_
(a)	Radius of curvature after test (mm)	(a)	
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements	THE THE	N/A
G.7.6.2	Stranded wire	HUAN	N/A
G.7.6.2.1	Requirements		N/A

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ESTIN	E ÉN	62368-1	ESTING	" TESTING
Clause	Requirement + Test	(1) Mary	Result - Remark	Verdict
G.7.6.2.2	Test with 8 mm strand			N/A
G.8	Varistors	OK TESTING	N TESTING	N/A
G.8.1	General requirements	(I) PALAN	O minus	N/A
G.8.2	Safeguard against shock		TING	N/A
G.8.2.1	General	TESTING	HUAKTES	N/A
G.8.2.2	Varistor overload test	HUM	HU!	N/A
G.8.2.3	Temporary overvoltage test		TESTING	N/A
G.9	Integrated Circuit (IC) Current Limiter	s sing	HUNN	N/A
G.9.1	Requirements	HUAKT	HUNKTEST	N/A
9	IC limiter output current (max. 5A)		9	_
	Manufacturers' defined drift	:		_
G.9.2	Test Program	K TESTING	X TESTING	N/A
G.9.3	Compliance	O HUM	O HUM	N/A
G.10	Resistors	1	TING	N/A
G.10.1	General	ESTING	HUAKTES	N/A
G.10.2	Conditioning	HUAN	HUA	N/A
G.10.3	Resistor test		TESTING	N/A
G.10.4	Voltage surge test	-TING	HUA	N/A
G.10.5	Impulse test	HUAKT	HUAKTES	N/A
G.10.6	Overload test		(ii)	N/A
G.11	Capacitor and RC units			N/A
G.11.1	General requirements	TESTING	TESTING	N/A
G.11.2	Conditioning of capacitors and RC units	HUAN	MILLAN.	N/A
G.11.3	Rules for selecting capacitors		TNG	N/A
G.12	Optocouplers	-STING	WAY TES	N/A
	Optocouplers comply with IEC 60747-5-5 Spacing or Electric Strength Test (specifiand test results)	fy option		N/A
TI	Type test voltage Vini		HUM	_
HUAK TEST	Routine test voltage, Vini,b	MAK	HUAK TES	- H
G.13	Printed boards		9	N/A
G.13.1	General requirements			N/A
G.13.2	Uncoated printed boards	A TESTING	ok TESTING	N/A
G.13.3	Coated printed boards	HUPP	MUNA.	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface	ESTING TESTING	N/A
HUPAG	Compliance with cemented joint requirements (Specify construction):	O MURRY O	_
G.13.5	Insulation between conductors on different surfaces	HUAKTESTING	N/A
	Distance through insulation	(See appended table 5.4.4.5)	N/A
G	Number of insulation layers (pcs):	TESTING	_
G.13.6	Tests on coated printed boards	TING WHITE	N/A
G.13.6.1	Sample preparation and preliminary inspection	MAKTE	N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	,	N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components	O HUNCO	N/A
G.15.1	Requirements	Par	N/A
G.15.2	Test methods and compliance	- WAY TEST	N/A
G.15.2.1	Hydrostatic pressure test	WANTED THE PROPERTY OF THE PARTY OF THE PART	N/A
G.15.2.2	Creep resistance test	STING	N/A
G.15.2.3	Tubing and fittings compatibility test	ING HUPE	N/A
G.15.2.4	Vibration test	NAK TES IN	N/A
G.15.2.5	Thermal cycling test	9,,,	N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance	-STING	N/A
G.16	IC including capacitor discharge function (ICX)	HIPA	N/A
G.16.1	Condition for fault tested is not required		N/A
CTESTING	ICX with associated circuitry tested in equipment	TAN TESTINA	N/A
	ICX tested separately	O MARCIT	N/A
G.16.2	Tests	ESTING OF THE	_
TESTIVE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	THIS HUME	N/A
MANAGE .	Mains voltage that impulses to be superimposed on	● ₁₁₇₁₂ ● 11	_
TING	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	-the -the	_
G.16.3	Capacitor discharge test	White London	

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	EN 62368-	TESTING WESTING	
Clause	Requirement + Test	Result - Remark	Verdict
Н	CRITERIA FOR TELEPHONE RINGING SIGNA	ALS	N/A
H.1	General	JAY TESTA"	N/A
H.2	Method A	0,,	N/A
H.3	Method B	SING	N/A
H.3.1	Ringing signal	THE HUAR	N/A
H.3.1.1	Frequency (Hz)	· · · · · · · · · · · · · · · · · · ·	_
H.3.1.2	Voltage (V)	: ONTESTING	_
H.3.1.3	Cadence; time (s) and voltage (V)	: STANG OF PROPERTY OF THE STANGE	_
H.3.1.4	Single fault current (mA):	HIAN TE	_
H.3.2	Tripping device and monitoring voltage	:	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	ESTING TESTING	N/A
H.3.2.2	Tripping device	UP HUPE	N/A
H.3.2.3	Monitoring voltage (V)	: :	_
J	INSULATED WINDING WIRES FOR USE WITH	OUT INTERLEAVED INSULATION	TING P
	General requirements	(See separate test report)	Р
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance	: (See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method	:	N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A
K.7.2	Overload test, Current (A)	:	N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test	: (See appended table 5.4.11)	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A

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Y TESTIN	EN 62368-1	STIME TESTING	AKTESTING
Clause	Requirement + Test	Result - Remark	Verdict
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
M	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	No such battery used.	N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance ::	(See appended Tables and Annex M and M.3)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2	Compliance:	(See Table M.4.2)	_
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):		N/A

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TESTI	EN 62368-1	TESTING	AK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m3/h)		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%)		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%)		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A

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N TESTIN	EN 62368-1	K TESTING LANTESTING
Clause	Requirement + Test Result - Rem	ark Verdict
M.9.1	Protection from electrolyte spillage	N/A
M.9.2	Tray for preventing electrolyte spillage	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	N/A
	Instructional safeguard:	N/A
N	ELECTROCHEMICAL POTENTIALS	N/A
	Metal(s) used Pollution degree consi	dered —
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	Р
	Value of X (mm)	_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILL INTERNAL LIQUIDS	AGE OF N/A
P.1	General requirements No opennigs	N/A
P.2.2	Safeguards against entry of foreign object	N/A
	Location and Dimensions (mm):	_
P.2.3	Safeguard against the consequences of entry of foreign object	N/A
P.2.3.1	Safeguards against the entry of a foreign object	N/A
	Openings in transportable equipment	N/A
	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	N/A
P.3	Safeguards against spillage of internal liquids	N/A
P.3.1	General requirements	N/A
P.3.2	Determination of spillage consequences	N/A
P.3.3	Spillage safeguards	N/A
P.3.4	Compliance	N/A
P.4	Metallized coatings and adhesive securing parts	N/A
P.4.1	General	N/A
P.4.2	Tests	_
	Conditioning, TC (°C)	_
	Duration (weeks):	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIR	ING N/A
Q.1	Limited power sources	N/A
Q.1.1	Requirements	N/A

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TO	- 7/2 _h	
Requirement + Test	Result - Remark	Verdict
a) Inherently limited output		N/A
b) Impedance limited output		N/A
c) Regulating network limited output		N/A
d) Overcurrent protective device limited output		N/A
e) IC current limiter complying with G.9		N/A
Test method and compliance	(See appended table Q.1)	N/A
Current rating of overcurrent protective device (A)		_
Test for external circuits – paired conductor cable		_
Maximum output current (A)		N/A
Current limiting method		N/A
LIMITED SHORT CIRCUIT TEST		N/A
General requirements		N/A
Determination of the overcurrent protective device and circuit		N/A
Test method Supply voltage (V) and short-circuit current (A)).		N/A
Compliance		N/A
TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
Samples, material:		_
Wall thickness (mm)		
Conditioning (°C):		
Test flame according to IEC 60695-11-5 with conditions as set out		N/A
- Material not consumed completely		N/A
- Material extinguishes within 30s		N/A
- No burning of layer or wrapping tissue		N/A
Flammability test for fire enclosure and fire barrier integrity		N/A
Samples, material:		_
	b) Impedance limited output c) Regulating network limited output d) Overcurrent protective device limited output e) IC current limiter complying with G.9 Test method and compliance	b) Impedance limited output c) Regulating network limited output d) Overcurrent protective device limited output e) IC current limiter complying with G.9 Test method and compliance

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		_
	Wall thickness (mm)		_
	Conditioning (test condition), (°C):		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
Т	MECHANICAL STRENGTH TESTS		N/A
T.1	General requirements		N/A
T.2	Steady force test, 10 N	(See appended table T.2)	N/A
T.3	Steady force test, 30 N	(See appended table T.3)	N/A
T.4	Steady force test, 100 N	(See appended table T.4)	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
T.6	Enclosure impact test	(See appended table T.6)	N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test	(See appended table T.7)	N/A
T.8	Stress relief test	(See appended table T.8)	N/A
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A

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	EN 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
	Impact energy (J):		_			
	Height (m):		_			
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A			
T.11	Test for telescoping or rod antennas		N/A			
	Torque value (Nm)		_			
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION					
U.1	General requirements		N/A			
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A			
U.3	Protective Screen	(See Annex T)	N/A			
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	N/A			
V.1	Accessible parts of equipment		N/A			
V.1.1	General		N/A			
V.1.2	Surfaces and openings tested with jointed test probes		N/A			
V.1.3	Openings tested with straight unjointed test probes		N/A			
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A			
V.1.5	Slot openings tested with wedge probe		N/A			
V.1.6	Terminals tested with rigid test wire		N/A			
V.2	Accessible part criterion		N/A			
X	ALTERNATIVE METHOD FOR DETERMINING CL CIRCUITS CONNECTED TO AN AC MAINS NOT RMS)		N/A			
	Clearance:	(See appended table X)	N/A			
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A			
Y.1	General		N/A			
Y.2	Resistance to UV radiation		N/A			
Y.3	Resistance to corrosion		N/A			
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A			
Y.3.2	Test apparatus		N/A			
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A			
Y.3.4	Test procedure		N/A			
Y.3.5	Compliance		N/A			

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means	(See Annex P.4)	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:	(See Table T.6)	N/A

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OK TES	TING WAY TESTING TO	EN 62368-1	ESTING OF	TESTING	LAK TESTING W
Clause	Requirement + Test	(a) 1111 (b) 1111	Result - Remark	(a)	Verdict

4.1.2	TABLE: List of critical componen	ts	P
-mls	TIME TIME		-mc

TON HOW	ADD HOLD	AND HOLD	HO.	ADM HOLE	MD HO
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	MeiZhou ChaoJie Electronic techn ology Co.,Ltd.	CJ-D	V-0, 130°C	EN IEC 62368-1	UL E313924 and tested with appliance
Plastic enclosure	LG CHEM LTD	LUMID GP2251BFH	V-0, 130°C	EN IEC 62368-1	UL E67171 and tested with appliance
Adapter	EDA Technology Shanghai Co.,Ltd	GST36B24-P1J	INPUT: 100-240VAC, 50-60Hz 0.8A OUTPUT: 24VDC, 1.5A,36W MAX	EN IEC 62368-1	CE certification

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WAYTES		Page 42 of 81	Report No.: HK25010	030026-SR
OKTESTING	, LANTESTING (III)	EN 62368-1	TIME WESTING	LAKTESTING (II)
Clause	Requirement + Test	(i)	Result - Remark	Verdict

5.2	Table: Classification of electrical energy sources						P	
5.2.2.2	- Steady State	e Voltage and C	urrent conditions					
	Committee of the commit	Location (e.g.			Param	eters		
No.	Supply Voltage	circuit designation)	Test conditions	U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	ES Class
1	24VDC	Input terminal	Normal	24VDC		SS	Marie House	
Vic.		, ar TE	Abnormal	24VDC	LOKTEST	SS		ES1
IAX	ESTING WUAN	TESTING OF HUN	Single fault – SC/OC	24VDC	• <u>-</u>	SS	MG HUM	TESTING (

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working volta	ige measureme	nt		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
	"IAK TES"			"IAK TESTIL"	
TESTING	AKTESTING (II)	TESTING	AKTESTING (TESTING ON TESTING
Supplementa	ry information:	O HUMA	O Home	(A) HUR	(i) Notes

5.4.1.10.2	TABLE: Vicat softening temperature of the	BLE: Vicat softening temperature of thermoplastics			
Penetration	(mm)	33	0	_	
Object/ Par	t No./Material	Manufacturer/t rademark	T softening (°C)	
a	O HUIN	56-	O HUAN		
supplement	ary information:		NK TESTING		

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			3	C MIN HUM		
AK TESTING	"IAK TESTIN	O ON TES	EN 62368-1		AK TESTING	"IAK TESTING
Clause	(i)	Requirement + Test	0,	Result - Re	emark	Verdict
5.4.1.10.3	TABLE: Ball	pressure test of thermo	oplastics	.6	.G	N/A
Allowed impr	ession diamet	er (mm)	∶ ≤ 2 mm	Illa.	KTESTIN	_
Object/Part N	No./Material	Manufacturer/tradem	nark Test t	emperature (°C)	Impression	diameter (mm
TESTING	1.00	TESTING		TES	n _N G	
	"IAK TESTING	MUN.	"IAK TESTING	MI AT		IAKTESTING
Supplementa	ary information	a)G	9	a)G	0,,	
		MAKTESTIN		MAK TESTIN		100

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) a distance (cr) at		Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
X TESTING	V TESTING		TESTING	. KTE	TING	X TEST	l _G	Y TESTING
HUM	O HUA	(1) HOL		O HUM		O HUA	0	AUPA

Supplementary information:

Note 1: Only for frequency above 30 kHz

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

Note 3: Provide Material Group

5.4.4.2 TABLE: Mil	nimum distance through	insulation			N/A
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
TING	TING		CTING	TING	TING
HUAKTE	HUAKTE	HUAK.	100	HUAKTED	HUAKTE
Supplementary information	on:	9			

5.4.4.9	TABLE: Solid in	nsulation a	t frequencies	>30 kHz	O 110		HUAKTEST	N/A
Insulation r	material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)
W TESTI	IG LIANTESTING	9)	V TESTING	LAKTESTING	9	W TESTING	lar	TESTING (
Supplemen	ntary information:							

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AK TESTING	EN 62368-1	NY TESTING	JAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict

5.4.9	TABLE: Electric strength tests	.16	200	N/A
Test voltage	applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:	THE		TING.	
IL TEST	STING HUANTES!	STING	HUAKTES!	STING
Basic/supple	ementary:	HUAKTE		HUAKTE
<u>G-</u>	ESTING		ESTING	
Reinforced:	TONG MILLIAM	is in the same	HUAK	THE M
- JAKTESTIN	HANTES	STILL	JAK TESTIN	HUAKTES
.	0,,	<u> </u>	<u>O</u>	<u> </u>
STING	-STIVE	NG STING	STING	
Routine Tes	its: Mularita	HUAK	HUAK	HUAKIL
		<u></u>		
Supplement	ary information:	"TESTING	HUANTESTIN	TESTING

5.5.2.2	TABLE: St	ored dischar	ge on capacito	ors	AK TESTING		N/A
Supply Vol	Itage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classifi	cation
TING		STING	TING		ie m	5	TETING
HUAKTE	HUAK		HUAK TE	HUAKTE	HUAKTE	HUAY	Cir
Suppleme	ntary informat	ion:					
X-capacito	rs installed fo	r testing are:					
☐ bleedii	ng resistor rat	ing:					
☐ ICX:							
Notes:							
A. Test Lo	cation:						
Phase to N	Neutral; Phase	e to Phase; Ph	nase to Earth; a	ind/or Neutral	to Earth		
B. Operati	ing condition	abbreviations:					
N – Norma	al operating co	ondition (e.g.,	normal operation	on, or open fus	se); S –Single fault cond	lition	

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N TESTI	NG NAK TES	Thur Co	EN 623	68-1	9	K TESTING	LAK TESTING
Clause	0	Requireme	ent + Test		Result - Rem	nark	Verdict
5.6.6	TABLE: Re	sistance of pr	otective conducto	ors and termi	nations		N/A
/	Accessible pa	rt	Test current (A)	Duration (min)	Voltage di	rop Res	sistance (Ω)
WG			-miG		any.	3	
IKTES.	TeTING	m H	JAK TES	TETING	HUAK TES.		STING
Supplemen	tary informati	on:	NOTA PROPERTY.	TK ,	-	HUAK,	
NG		45	Inte		ESTING		
5.7.4	TABLI	E: Unearthed a	ccessible parts				N/A
Location Operating and				Parameters		ES class	
		fault conditio	ns Voltage (V)	Voltage (V _{rms} or V			
ESTING		STING	TESTING	ESTING		STING	ESTING
HUAK	HUAK	6	M HUME	HUAK	HUAR		HIJAK
5.7.5	TABLE:	Earthed acce	ssible conductive	part	TESTING	HUAN	N/A
	age (V)	N. TED		pan t	THE HUARTESTIN		
	MAKTE	711	[] Single Phase	e; [] Three Ph	ase: [] Delta []	Wye	
CONTRACTOR OF THE PARTY OF THE	ibution Syste		□ TN □] TT]IT		
Location			Fault Condition 60990 clause 6	No in IEC	Touch current (mA)	Comn	nent
A HUPA	M HUM-	-	D Ache	Million.	MUPA HUPA	6	HOPO
Supplemen	tary Informati	on:	TOG .		THE STATE OF THE S	3	
KTESI	TSTING	THE WILLIAM	JAK IEST.	TSTING	HUAKTESI.		STING
5.8	TABLI	E: Backfeed sa	afeguard in batter	y backed up	supplies	HUAKT	N/A
Location		Supply voltage (V)	Operating and fau	Ilt Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
HUAK TEST	HUAKTE		HUAY TES	HUAKTE	- W	KTES	JAKTE
Supplemen Abbreviatio	tary informati	on:			9	9	

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V TESTING	ON TESTING OF HUM	EN 62368-1	STING WITTESTING	LAKTESTING (III)
Clause	Requirement + Test	0,,,,	Result - Remark	Verdict

6.2.2	Table: Electrical power sources (PS) measurements for classification						
Source		Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification	
			Power (W) :	33.6			
Input		Normal	V _A (V) :	24.0		PS2	
			I _A (A) :	1.4			

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	Table: Determi	Table: Determination of Potential Ignition Sources (Arcing PIS)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No			
	LOKTESTING	O HUA	LAKTESTING	(C) HOPE	LAKTESTING			
G	(a) III.	-16	O HO	-G	D. HILL			
		AKTESTII.		AKTESTII				

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.

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V TESTING	ON TESTING OF HUM	EN 62368-1	STING WITTESTING	LAKTESTING (III)
Clause	Requirement + Test	0,,,,	Result - Remark	Verdict

6.2.3.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)						
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No	
	- OK TESTING	C HOW	NKTESTIN	O HO	nkTi	STIME	

Supplementary Information:

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

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

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

8.5.5	TABLE: High Pressure Lamp	STING HUAN	N/A
Description		Values	Energy Source Classification
Lamp type	· .	TSTMG	_
Manufacture	er:	THE HUAR.	_
Cat no	AN TESTI	HUAN TES.	_
Pressure (co	old) (MPa)	•	MS_
Pressure (or	perating) (MPa)		MS_
Operating tir	me (minutes)	ESTING	_
Explosion m	ethod:	HUAK	_
Max particle	length escaping enclosure (mm).:		MS_
Max particle	length beyond 1 m (mm):	THE WAY	MS_
Overall resu	lt:	WANTES!	HUMKTEST
Supplement	ary information:	TESTIVE	

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Supplementary information:

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				i ago it	0101		· topoit i to		000020 011
AK TESTING	"IAK TES	Une Co		EN 62	368-1		ax.T	ESTING	LAK TESTING
Clause	9	Require	ement + Te	st		Res	ult - Remar	k 🤍	Verdict
9.6	TABLE	: Tempera	ture meas	urements	for wireles	s power t	ransmitter	S	N/A
Supply voltage	e (V)		:		HUAK TEST	***	THUAK TEST		_
Max. transmit	power of t	ransmitter ((W):					6	_
			eiver and contact		eiver and contact		ver and at of 2 mm		eiver and at e of 5 mm
Foreign ob	ojects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
STING	.165	Me DHO.		STING	TESTING	6 ***		STING	TESTING (

5.4.1.4,	TABLE: Tempe	rature measurer	ment	S		a)G				3	P
9.3, B.1.5, B.2.6	MANY TESTING										JAKTESTING
TING	Supply voltage (V)	:					2	4VDC		_
KTEO	Ambient T _{min} (°C)	:	16	STING			23.3	25.0)	UL, —
0	Ambient T _{max} (°C	5)		MAK				23.6	25.0	HUAR	_
Maximum me	asured temperature	T of part/at:						T (°C	5)		Allowe d T _{max} (°C)
PCB	(a)	O Ho		<u></u>				33.4	35.1	(<u>(0)</u>	130
Plastic enclos	ure							29.8	31.5	j	77
Supplementar	ry information:	-myG				TING	1		-mv	3	TING
Temperature	T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ ((O°	R	2 (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
TESTING		TESTING							TESTING		9
Supplementar	ry information: N/A	HUAN	1	NKTE	TING			W HUA		NY TES	TINIG

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KTESTIN	G	ESTING (1)	EN 62368-1	X TESTINE	,	AK TESTING
Clause	9,	Requirement + Test	00	Result - Remark	0,,,	Verdict
B.2.5	TABLE: In	nut test				Р

B.2.5	TABLE: Input test							
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
24.0	1.4	1.5	33.6	O .)	Max no	rmal load

B.3, B.4	TAB	LE: Abnorm	nal operating o	condition t	ests	10	6	HUAN		KTSTING P
Ambient te	mpera	ture (°C)			lo.	:	25°C	if not menti	oned	_
Power soul	rce for	EUT: Manuf	acturer, model	/type, outpu	ut rating	:	See p	age 2		_
Componer	nt No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu		T-couple	Temp. (°C)	Observation
U2		S-C	24VDC	10min			-			No hazard, no broken
C1		S-C	24VDC	10min			-			No hazard, no broken
C1		S-C	24VDC	10min			-			No hazard, no broken
U1		S-C	24VDC	10min			-			No hazard, no broken
Supplemer	ntary ir	nformation:	TING	0		•		TING	.	

M.3	TABLE: Pr	otection circu	uits fo	or batteri	es provid	ed v	vithin	the eq	uipment	N/A
Is it possible to in	nstall the bat	tery in a revers	se pol	larity posi	tion?:			9	0	_
					(Char	ging			
Equipment Sp	ecification	Voltage (V)							Current (A)	
		● HU	MINNE WILLIAM				HUAN			
		Battery sp					ecifica	tion		
		Non-recharge	eable	batteries			Red	chargea	ble batteries	
		Discharging		ntentional	(Char	ging		Discharging	Reverse
Manufactur	er/type	current (A) charging current (A)		Voltage	Voltage (V) Current (A)		ent (A)	current (A)	charging current (A)	
OKTESTING	MAKTESTIN		OKT	ESTING	MAKTESTIN DE			ri e	OK TESTING	WAX TESTING
Note: The tests of	of M.3.2 are a	applicable only	when	above ap	propriate	data	is not	availab	ole.	
Specified battery	/ temperature	e (°C)			:					
Component No. Fault condition		Charge/ discharge mo	ode	Test time	•		urrent Voltag (A) (V)		e Obse	ervation
9				-					-	

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AK TESTING	JAKTESTINE HO.	EN 62368-1	STIME WATESTING	WAY TESTING
Clause	Requirement + Test	0	Result - Remark	Verdict

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

M.4.2	TABLE: Chargi	ng safeguard	s for equipm	ent containing	ງ a secondar	y lithium battery	[№] N/A
Maximun	n specified chargir	ng voltage (V)		HUDA		(C) HUAR	_
Maximun	n specified chargir	ng current (A)		:	LAKTESTING		_
Highest s	specified charging	temperature (°C)	· · · · · · · · · · · · · · · · · · ·	(1) I'M	TESTING	
Lowest s	pecified charging	temperature (°C)		6	HUNK WHILE	
Battery m	anufacturer/type	Operating		Measurement		Observatio	n
		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
) ' '	(i)	0	1.	0,,	0	(a)	

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

	S SUB SUB S.		Olm D.	\$300 V	-C	20m	
Q.1 (155T)	TABLE: Circuits int	ended for interc	onnection with l	building wirin	g (LPS)	N/A	
Note: Meas	sured UOC (V) with all I	oad circuits disco	nnected:	•	9,00	9)	
Output	Components	U _{oc} (V)	I _{sc} (/	A)	S (VA)	
Circuit			Meas.	Limit	Meas.	Limit	
HUAKTE	HUAKTE	HUAKTE	HUAKTE	- N	UAKT	HUAKTL	
,						9	
Supplemen	ntary Information:	LAK TESTING	_n/G	. ak T	ESTING	, NG	
SC=Short	circuit						

T.2, T.3, T.4, T.5	BLE: Steady force to	est	TESTING	HUNKTES	TSTING	P TESTING
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
Top enclosure	Plastic	Min.1.5	250	5	No da	maged
Side enclosure	Plastic	Min.1.5	250	5	No da	maged
Bottom enclosure	e Plastic	Min.1.5	250	5	No da	maged
Supplementary in	nformation:	TING		-m ^G		

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AK TESTING	IN THE THE WATER EN 6	52368-1	WAY TESTING
Clause	Requirement + Test	Result - Remark	Verdict

T.6, T.9	TABLE: Impact tests	AKTESTING		AKTESTING OKTEP
Part/Locatio	n Material	Thickness (mm)	Vertical distance (mm)	Observation
Top enclosu	re Plastic	Min.1.5	5 1300	No damaged
Side enclosu	re Plastic	Min.1.5	1300	No damaged
Bottom enclosure Plastic		Min.1.5	1300	No damaged
Supplementar	y information:	N. TES		HUAKTES

T.7	TABLE: Drop tests	O HUAN	(a) 1100	O HOM	N/A
Part/Location	on Material	Thickness (mm)	Drop Height (mm)	Observati	on
OKTESTING	AK TESTING	NY TESTING	OK TESTIN	OKTESTING	AKTESTINE
HO	(D) HO	1 Mary	(a) Mo.	(i) HO	O HO
STING		STING		STING	
Supplementa	ry information:	HUAKTE	ESTING	HUAKIT	ESTING

.8	TAB	LE: Stress relief to	est				N/A
Part/Locati	on	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observat	ion
Complete sample		Plastic enclosure (for all sources)	Min.1.5	70	7	No damage hazardous liv cannot be to	e parts

X	TABLE: Altern	TABLE: Alternative method for determining minimum clearances distances					
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
	ic The O'	UNI "	HUAK "	ale alle			
Supplemen	ntary information:						

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OKTESTING	WAY TESTING W	EN 62368-1	TIME OF THE	WAK TESTING
Clause	Requirement + Test	(a)	Result - Remark	Verdict

-Appendix 1: For requirements of European group differences.

	MENT TO TEST REPORT IEC DIFFERENCES AND NATION		ICES
(Audio/video, information and com			
Differences according to	EN IEC 62368-1:2020+A11	2020	TESTING
Attachment Form No	EU_GD_IEC62368_1C		HUAN
Attachment Originator:	UL(Demko)		
Master Attachment	2020-03-10		

	CENELEC COMMON MODIFICATIONS (EN)				
WEELING	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	P.G			
NG HUAKTESTING	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative)	N/A			
1	Modification to Clause 3.	Р			
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	P			
1 Y TESTING	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	N/A			

2 2 4 2 4	A Management and A MEL	HUAR	NI/A
3.3.19.1	momentary exposure level, MEL	- 1G	N/A
HUAK TEST	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	HUANTESTING HUANTESTING	KTESTING (
9	Note 1 to entry: MEL is measured as A-weighted levels in dB.		
OK TESTING	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	N TESTINE	AK TESTING

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K TESTING		W TEST	N 62368-1	Was (iii)		
Clause	Requireme	ent + Test	0,	Result - Rema	ark	Verdict
3.3.19.3	A-weighted sound pressuintegrated over a stated p			STIVE WHATTE	TING	N/A
	Note 1 to entry: The SI up $E = \int_{0}^{T} p(t)^{2} dt$	nit is Pa ² s.		MAK TESTING		TESTING
3.3.19.4	sound exposure level,	SEL	NG A	ING MUNICIPALITY	TOG.	N/A
	logarithmic measure of so reference value, <i>E0</i> , typic threshold of hearing in hu	ally the 1 kH		₩INV		HUNTER
	Note 1 to entry: SEL is m in dB.	easured as A	A-weighted lev	rels		NUAN TESTING
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	JAY TESTING	O COLUMN TESTING	MHJAK TESTING		TESTING
	Note 2 to entry: See B.4 (additional information.	OT EIN 50332	-3:2017 101	TING		
3.3.19.5	levels reported in dBFS a level, 0 dBFS, is the level Hz sine wave whose und positive digital full scale, corresponding to negative	re always r.r of a dc-free ithered positi eaving the c	m.s. Full scale 997- ive peak value ode	HUM	TESTING (N/A
HUAK TESTING	Note 1 to entry: It is invalidately levels. Because the defination a sine wave, the level of solution is lower than that of a sine wave stable.	d to use dBF ition of full so signals with a wave may ex	FS for non-r.m cale is based of a crest factor aceed 0 dBFS.	on	TIMG	TE TIME
2	Modification to Clause 1	0				N/A
10.6	Safeguards against aco Replace 10.6 of IEC 6236	-		ING HUAKTES IN	TING	N/A
10.6.1.1	Introduction Safeguard requirements term exposure to excessi levels from personal must the ear are specified belof for earphones and headp personal music players a A personal music player in	ve sound pre ic players clow. Requirem hones intend re also cover	essure psely coupled and another ded for use with red.	to	TIME	N/A

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W TESTING	AK TEST	ur 🔘	EN 62368-1	W TESTING	LAK TESTING
Clause	0,,,,	Requirement + Tes	(a)	Result - Remark	Verdict
TING	intended for	r use by an ordinary p	erson, that:	mic mic	-m/G
	audiovisual	ed to allow the user to content / material; and stening device, such as	i in the second	MALAX TEST	O Hardertes I.
	earphones around the	that can be worn in or	on or	HUNKTESTING	Y TE MIG
	suitable to be is intended	be carried in a clothing for the user to walk are use (for example, on a	pocket) and bund with while in	"TESTING	HUAN
	in a subway	y, at an airport, etc.).		G MAAN AKTESTING	WATESTING (
		S Portable CD players, nes with MP3 type feat pment.		, market	0"
		usic players shall com ts of either 10.6.2 or 10		HUAK TESTING	FURN TESTING
		otection against acous m applications is refere		HUAYTESTING	ES TING
	60 189	s the intention of the C ive methods for now, b		W.TESTING	HUANTE
	measureme Therefore, r	ent method as given in manufacturers are enc 10.6.5 as soon as poss	ouraged to	E NAK TESTING	O HUR TESTING
	requirement	evices sold separately ts of 10.6.6.			
	only. The require	irements are valid for r ments do not apply to: nal equipment;		e May resimus	MAK TESTING
		ofessional equipment is ecial sales channels. A		MULAY TESTING	WHILK TESTING
	normal elec	tronics stores are cons I equipment.	sidered not to be	A HUAKTESTING	
	assistive lis	id equipment and othe tening; ing type of analogue p		WHAR TESTING	White Leading
	multiband ra	nce radio receiver (for adio receiver or world la AM radio receiver), an	band radio	HUAK TESTING	HARTESTING

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	STING OF	EN 62260 4	S D THE	STING
- UUAKTES!	MAKTES	EN 62368-1	JUAN TEST	MAKTES
Clause	Requirement +	Test	Result - Remark	Verdic
HUAKTESTING	NOTE 4 This exemption has this technology is falling out of that within a few years it will no locexemption will not be extended.	of use and it is expected nger exist. This	NE HURY TESTING	O VARTESTING
	 a player while connected to does not allow the user to wa while in use. 		at Martestine	HUAK TES TRUG
	For equipment that is clearly optimarily for use by children, to relevant toy standards may a	the limits of the pply.	HUANTESTING HUANTESTING	MU KTESTING
	The relevant requirements and EN 71-1:2011, 4.20 and the measurement distances apply	elated tests methods and y.	d	
10.6.1.2	Non-ionizing radiation from the range 0 to 300 GHz	AKTES.	WHATESTING	N/A
	The amount of non-ionizing ra European Council Recomment 12 July 1999 on the limitation general public to electromagn GHz).	ndation 1999/519/EC of of exposure of the	WAY TESTING	HUAK TE ING
	For intentional radiators, ICNI taken into account for Limiting Varying Electric, Magnetic, ar (up to 300 GHz). For hand-he devices, attention is drawn to 50566.	g Exposure to Time- nd Electromagnetic Field eld and body mounted	MAKTES	MALL STESTING
10.6.2	Classification of devices wi	thout the capacity to e	stimate sound dose	N/A
10.6.2.1	General	TING	Dia Dia	
	y TEO.		V TESTING	N/A
	This standard is transitioning (30 s) requirements to long-te requirements. These clauses devices that do not comply wi as stipulated in EN 50332-3.	erm based (40 hour) remain in effect only for		N/A
	(30 s) requirements to long-te requirements. These clauses devices that do not comply wi	erm based (40 hour) remain in effect only for ith sound dose estimatio utput <i>L</i> Aeq, <i>T</i> , the A-weighted		N/A AMAZESTINE
	(30 s) requirements to long-terrequirements. These clauses devices that do not comply with as stipulated in EN 50332-3. For classifying the acoustic of measurements are based on	erm based (40 hour) remain in effect only for ith sound dose estimatio utput LAeq, T, the A-weighted vel over a 30 s period. sound pressure (long the duration of the song duced by the programme ents may be done over song. In this case, T	THE HUARTESTING OF HUARTESTING	N/A MARTESTING MARTESTING

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X TESTING	LAK TESTING	VTES E	N 62368-1	W TESTIN	3	AK TESTING
Clause	Require	ment + Test	0,,,	Result - Remark		Verdict
HAM TESTING	typically has an average LAeq, T) which is much programme simulation capable to analyse the programme simulation need to be given as lopressure of the song control of	n lower than the noise. Therefo content and co noise, the warr ng as the avera	average re, if the player is empare it with the ning does not ge sound		0	JAN TESTING
NG HUAN TESTING	limit. For example, if the pla simulation noise to 85 of the song is only 65 warning or ask an ack average sound level o limit of 85 dB.	yer is set with the dB, but the aved dB, there is no incomplet and the song is not be determined.	he programme rage music leve need to give a as long as the t above the basi	HIANTES		K. LESTING
10.6.2.2	RS1 limits (to be sup	erseded, see 1	0.6.3.2)	9		N/A
HARTESTING	RS1 is a class 1 acous exceed the following: – for equipment provious listening device), and between the player and the combination of player.	led as a packag with a proprietal d its listening do yer and listening	ne (player with its ry connector evice, or where g device is	NG STING		JAKTEETING
e (known by other means detection, the LAeq, T when playing the fixed described in EN 50332 – for equipment provide connector (for example	acoustic output "programme si 2-1. led with a stand	shall be ≤ 85 dE mulation noise" ardized	MAKTESTING		mvc
WAY TESTING	connection to a listenii unweighted r.m.s. out (analogue interface) o when playing the fixed described in EN 50332	ng device for ge out voltage shal r -25 dBFS (dig "programme si	neral use, the I be ≤ 27 mV ital interface)	HUARTESTIN		M. TESTIN
MAKTESTING	- The RS1 limits will b 10.6.3.2.	e updated for a	II devices as per	"IAX TESTING		JAK TESTING
10.6.2.3	RS2 limits (to be sup	erseded, see 1	0.6.3.3)		0	N/A
AK TESTING	RS2 is a class 2 acous exceed the following:	HUA		HUA		E TING
NG.	 for equipment provious listening device), and between the player and the combination of pla 	with a proprietal dits listening de	ry connector evice, or when	HUAKTESTING		- G @
	known by other means 130 detection, the LAG 100 dB(A) when playir simulation noise" as do – for equipment provide	eq, <i>T</i> acoustic oung the fixed "proescribed in EN !	itput shall be ≤ ogramme 50332-1.	W HUAK TESTIN		K TESTING
HUAKTESTING	connector (for example connection to a listenia unweighted r.m.s. outp (analogue interface) o when playing the fixed	e, a 3,5 phone j ng device for ge out voltage shal r -10 dBFS (digi	ack) that allows eneral use, the I be ≤ 150 mV ital interface)	HUAK TESTING		JAKTESTING

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	as described in EN 50332-1.		
10.6.2.4	RS3 limits	ESTING	N/A
	HUAKTE HUAKTE		UAKTE
n)G	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	O O	
10.6.3	Classification of devices (new)	MAKTEST	_M N/A
10.6.3.1	General	MAK'TE	N/A
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision		TING A
N TESTING	of 23 June 2009, are given below.	ak TESTING	KTES! B
10.6.3.2	RS1 limits (new)		N/A
	RS1 is a class 1 acoustic energy source that does not		
	exceed the following:		-nJG
	 for equipment provided as a package (player with its listening device), and with a proprietary connector 		LAKTESTIL
	between the player and its listening device, or where		Similar
	the combination of player and listening device is		
	known by other means such as setting or automatic		
	detection, the $LAeq$, T acoustic output shall be $\leq 80 \text{ dB}$		UNG
	when playing the fixed "programme simulation noise" described in EN 50332-1.		
	for equipment provided with a standardized		
	connector (for example, a 3,5 phone jack) that allows		
	connection to a listening device for general use, the		STING
	unweighted r.m.s. output voltage shall be ≤ 15 mV		W. The
	(analogue interface) or -30 dBFS (digital interface)		
	when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)		N/A
	TESTING TESTING		TESTING
	RS2 is a class 2 acoustic energy source that does not		UAK
	exceed the following:		
	 for equipment provided as a package (player with its listening device), and with a proprietary connector 		
	between the player and its listening device, or where		anG
	the combination of player and listening device; or where		
	known by other means such as setting or automatic		
	detection, the weekly sound exposure level, as		
	described in EN 50332-3, shall be ≤ 80 dB when		.0. /
	playing the fixed "programme simulation noise"		TESTING (
	described in EN 50332-1. – for equipment provided with a standardized		100
	connector (for example, a 3,5 phone jack) that allows		
	connection to a listening device for general use, the		
	unweighted r.m.s. output level, integrated over one		100
	week, as described in EN50332-3, shall be ≤ 15 mV		TESTING
	(analogue interface) or -30 dBFS (digital interface)		JAK .
	when playing the fixed "programme simulation noise"		
.0	described in EN 50332-1.	G	<u> </u>

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KTESTIN	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.6.4	Requirements for maximum sound exposure	3	N/A
10.6.4.1	Measurement methods	AKTESTII.	N/A
	All volume controls shall be turned to maximum during tests.	MING OF	O.M.
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	WAY TE	TUNG
10.6.4.2	Protection of persons	me w	N/A
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	HUAN TESTING HUAN TESTING	KTESTING (
	NOTE 1 Volume control is not considered a safeguard.		
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the	WHAT TESTING	UAK TESTING
	equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	HAW TEE TIMES	UNG
	The elements of the instructional safeguard shall be as follows: - element 1a: the symbol , IEC 60417-6044	MARK TESTING HAVE TESTING	KTESTING (
	(2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent wording - element 4: "Do not listen at high volume levels for long periods." or equivalent wording	WINT TESTING	JAK TESTING
	An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person	WILLY TESTING WILLY TESTING	^{(II)G}
	and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. The equipment shall provide a means to actively	WHITE THE WHITESTING	KTESTING (
	inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every	WHAT TESTING	JAK TESTING

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	A HUAN	Page 59 of 81	Report No.: HK	250103	0020-3K
NY TESTING	WAK TESTING	EN 62368-1	W TESTING	1111	JK TESTING
Clause	Requirement + T	est	Result - Remark	.	Verdict
TESTING	20 h of cumulative listening tim		TS TIME		ESTING
	NOTE 2 Examples of means in signals. Action from the user is		MILAKIL		UAKT
	NOTE 3 The 20 h listening time listening time, independent of h the personal music player has	low often and how long	MANAGESTING		^{UMG}
NG (A skilled person shall not be uto RS3.	unintentionally exposed	ANTESTING (9)	
10.6.5	Requirements for dose-base	d systems	O HO.		N/A
10.6.5.1	General requirements	UAN TEST	HUAKTES	AN HU	N/A
	Personal music players shall gi provided below when tested ac using the limits from this clause	cording to EN 50332-3,	-STING		STING
	The manufacturer may offer op the users to modify when and hareceive the notifications and was better user experience without safeguards. This allows the use	now they wish to arnings to promote a defeating the	WANTESTING		TUNG.
	method that best meets their pl device usage needs. If such op offered, an administrator (for ex- restrictions, business/education shall be able to lock any option	nysical capabilities and tional settings are cample, parental nal administrators, etc.)	WAY TESTING		TESTING (
	The personal music player sha to understand explanation to the management system, the risks	e user of the dose involved, and how to	O HUAN IN		TING
	use the system safely. The use that other sources may significate sound exposure, for example we concerts, clubs, cinema, car rai	antly contribute to their vork, transportation,	MHUAK TES		JAK TES.
10.6.5.2	Dose-based warning and req	uirements	WAK TES!	710	⊙ N/A
	When a dose of 100 % <i>CSD</i> is at every 100 % further increase shall warn the user and require	e of <i>CSD</i> , the device an acknowledgement.	WAY TESTING		
	In case the user does not ackn level shall automatically decreaclass RS1.	se to compliance with	WHAK TESTING		KTESTING (
_niG	The warning shall at least clear above 100 % <i>CSD</i> leads to the or loss.				-miG
10.6.5.3	Exposure-based requirement With only dose-based requirement could be far separated in time,	ents, cause and effect	MILANTES IN	(a)	N/A

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N TESTING	LANTESTING OF HE	EN 62368-1		* TESTING	. 10	KTESTING @
Clause	Requirement +	Test	Result -	Remark		Verdict
HUAK TESTING	educating users about safe lis addition to dose-based require therefore also put a limit to the a user can listen at.	ements, a PMP shall	(a)	HUAKTESTING	0,	JAK TESTING
MC MC	The exposure-based limiter (Exposure the sound level not to 150 mV integrated over the parethodology defined in EN 50 The EL settling time (time from to reaching target output) sha	exceed 100 dB(A) or ast 180 s, based on 0332-3. m starting level reduction	NAK TESTING		HUAKTES	
WANTESTINE	Test of EL functionality is con 50332-3, using the limits from equipment provided as a pacl listening device), the level into be 100 dB or lower. For equipmental compactor, the content of the content is the content of the content o	this clause. For kage (player with its egrated over 180 s shall ement provided with a			() HI	
HANTESTING	standardized connector, the unintegrated over 180 s shall be for an analogue interface and for a digital interface. NOTE In case the source is k test signal), the EL may be dis	no more than 150 mV no more than -10 dBFS nown not to be music (o			9 '	

10.6.6	Requirements for listening devices (headphones, ea	arphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	WIESTING	N/A
● HUN	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like	O HUM	
HUAKTESTING	equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed	MANA TESTING	UAKTESTING
AK TESTING	"programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	HANTESTING	TNIG
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	HUAKI	
10.6.6.2	Corded listening devices with digital input	LOKTESTING	N/A
MINY TESTIV	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the	WHINK LESTING WHI	KTESTING (
HUAKTESTING	combination of positions that maximize the measured acoustic output, the $LAeq$, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	WANTESTING	UAKTESTING
10.6.6.3	Cordless listening devices	TING	N/A

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				EN 6	2368-1				
Clause	0	F	Requirement +	Test	0,,	Result -	Remark	.	Verdict
HUAKTESTING	– wi		le, ng and transm e simulation n			•	HUAKTESTING	0	UNKTESTING
	whe the – wi devi	ere an air int equivalent a th volume a ice (for exar	e cordless tran erface standar acoustic level; and sound setti apple, built-in v d features like	rd exists tha and ings in the r olume level	eceiving control,	MAK TESTING			TING
HARTESTING	the mea	combinatior asured acou gramme simput of the list signal of -	of positions to stic output for ulation noise, tening devices 10 dBFS.	hat maximiz the above r the <i>L</i> Aeq, <i>T</i>	te the mentioned acoustic	O man	HUAY TESTING	● HU	K TESTING
0.6.6.4	Mea		shall be made	in accorda	nce with EN				N/A
3		32-2 as app dification to	the whole do	ocument	1009	(0.07)		(0.07)	N/A
KTEST	Del	ete all the "c	country" notes	in the refere	ence documen	t according t	o the following	list:	∞ N/A
	N HIU	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	KTE	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	1	
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	A HIU	IX TESTING
	-	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note		
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	+	LAK TESTING
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	9)	0,
	PHO PHO	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	KTE	TUNG
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		ESTING (
	•	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	HU	W.
		Y.4.5	Note					1	
		LAKTESTINA		OK TESTING	AKTESTINA		LOKTESTING	J	AKTESTING
4	Mod	dification to	Clause 1						N/A

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N. TESTIN	G WANTESTING (B)	EN 62368-1	OK TESTING	WAY TESTING OF
Clause	Requirement + 1	est	Result - Remark	Verdict
1	Add the following note:	- G		N/A
MAKTESTING	NOTE Z1 The use of certain st and electronic equipment is re- see Directive 2011/65/EU.		MALIAN TESTING	WAY TESTING

5	Modification to 4.Z1		N/A
4.Z1	Add the following new subclause after 4.9:	9	N/A
	_ TESTING	TESTING	
	To protect against excessive current, short-circuits	HUAK	
	and earth faults in circuits connected to an a.c. mains,	W STING	TESTING W
	protective devices shall be included either as integral	WAX TES	of the
	parts of the equipment or as parts of the building		
	installation, subject to the following, a), b) and c):		
	a) except as detailed in b) and c), protective devices		
	necessary to comply with the requirements of B.3.1	.nG	NG.
	and B.4 shall be included as parts of the equipment;	V TESTING	V TESTING
	b) for components in series with the mains input to the	HUAN	UAN
	equipment such as the supply cord, appliance coupler,		
	r.f.i. filter and switch, short-circuit and earth fault	n/G	
	protection may be provided by protective devices in	OKTESTIN	, C3
	the building installation;	HUM	Line
	c) it is permitted for pluggable equipment type B or	HUAR	
	permanently connected equipment, to rely on	- C	
	dedicated overcurrent and short-circuit protection in	TESTINE	
	the building installation, provided that the means of	HUAN HUAN	- G - 600
	protection, e.g. fuses or circuit breakers, is fully	W STING	TESTING W
	specified in the installation instructions.	WAY TEC	Nr.
		1	
	If reliance is placed on protection in the building		
	installation, the installation instructions shall so state,		
	except that for pluggable equipment type A the	anG	alG.
	building installation shall be regarded as providing	V TESTING	Y TESTING
	protection in accordance with the rating of the wall	HUAN.	UAN
6	socket outlet.		NI/A
	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause:	- WAKTE	_∞ N/A
	LIAKTES .	O ' LAKTE	
	The requirement for interconnection with external	THO.	
NG	circuit is in addition given in EN 50491-3:2009.	TING	
7	Modification to 10.2.		N/A
10.2.1	Add the following to c) and d) in table 39:	CS CSTING	N/A
	HUAK TES HUAK TE	WAX TES	30.147
	For additional requirements, see 10.5.1.	(a) (b)	

8	Modification to 10.5.1	N/A
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X TESTING	LAK TESTING	EN 62368-1	W TESTING	JAK TESTINE (I
Clause	Requiremen	nt + Test	Result - Remark	Verdict
10.5.1	Add the following after the	e first paragraph:	-mG	N/A
	For RS 1 compliance is chunder the following conditi		O HUAKTES !!	WAK TEST !!
	object such as a tool or a d adjustments or pre-sets whereliable manner, are adjust	ne outside by hand, by any coin, and those internal hich are not locked in a sted so as to give maximum g an intelligible picture for 1 measurement is made.	HUAN TESTING HUAN TESTING	HUAKTESTING WHITESTING
	monitor with an effective a 10 cm from the outer surfar Moreover, the measureme conditions causing an increprovided an intelligible pict	ed by means of a radiation area of 10 cm², at any point ace of the apparatus. ent shall be made under fault rease of the high voltage, ture is maintained for 1 h, at	MAKTESTING	O MANTESTING
	account of the background NOTE Z2 These values ap	all not exceed 1 μSv/h taking d level.	HUM TESTING OK TESTING	HUAKTESTING
9	96/29/Euratom of 13 May Modification to G.7.1	1996.	- Ho	N/A
G.7.1	Add the following note:			N/A
	NOTE Z1 The harmonized corresponding to the IEC of Annex ZD.		WHAK TESTING	WAY TESTING

10	Modification to Bibliography	N/A
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		AK TES	EN 62368-1		
Clause	Requ	uirement + Test	0,	Result - Remark	Verdict
	Add the following n	otes for the standa	ards indicated:		N/A
	CTING				OMITS
	IEC 60130-9	NOTE Harmoni	zed as EN 60130-9.		JAK TES
	IEC 60269-2		zed as HD 60269-2.		
	IEC 60309-1		zed as EN 60309-1.		
	IEC 60364	NOTE some pa	rts harmonized in HI	D 384/HD 60364 series.	
	IEC 60601-2-4		zed as EN 60601-2-		STING
	IEC 60664-5		zed as EN 60664-5.		JUAKTE
	IEC 61032:1997		zed as EN 61032:19		
	IEC 61508-1		zed as EN 61508-1.		19
	IEC 61558-2-1		zed as EN 61558-2-		0.00
	IEC 61558-2-4		zed as EN 61558-2-		TESTING
	IEC 61558-2-6		zed as EN 61558-2-		HUMA
	IEC 61643-1		zed as EN 61643-1.		
	IEC 61643-21	NOTE Harmoni	zed as EN 61643-21	1.	
	IEC 61643-311		zed as EN 61643-31		
	IEC 61643-321	NOTE Harmoni	zed as EN 61643-32	21.	TNG
	IEC 61643-331		zed as EN 61643-33		MYTEST
					A KUM
11	ADDITION OF ANN	IEXES			N/A
ZB	ANNEX ZB, SPECI	AL NATIONAL CO	ONDITIONS (EN)	MAKTEST	N/A
4.1.15	Denmark, Finland,	Norway and Swe	eden	(i)	N/A
					6
	To the end of the su				
	Class I pluggable		A intended for		
	connection to other		NG TESTING		G TESTING
	network shall, if safe				THE HUME
	reliable earthing or are connected betw				(63)
		ava a marking etai	ting that the		
		ave a marking state			
	equipment shall be				TING
					JAK TESTING
	equipment shall be socket-outlet.	connected to an e	arthed mains		AUAK TESTING
	equipment shall be socket-outlet. The marking text in	connected to an e	arthed mains		O MAK TESTING
	equipment shall be socket-outlet.	connected to an e	arthed mains		WAKTESTING
	equipment shall be socket-outlet. The marking text in as follows:	the applicable cou	arthed mains untries shall be		ME THE THICK
	equipment shall be socket-outlet. The marking text in	the applicable couratets stikprop ska	arthed mains untries shall be al tilsluttes en		MAK TESTING
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord."	the applicable couratets stikprop ska	arthed mains untries shall be al tilsluttes en delse til		NAN TESTING
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord	the applicable couratets stikprop ska	arthed mains untries shall be al tilsluttes en delse til		O MAKTETING
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord." In Finland : "Laite o varustettuun pistora	the applicable couratets stikprop skad som giver forbind	arthed mains untries shall be al tilsluttes en delse til		WANTE TIME
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appastikkontakt med jord stikproppens jord." In Finland : "Laite o varustettuun pistora In Norway : "Appara	the applicable couratets stikprop skad som giver forbind	arthed mains untries shall be al tilsluttes en delse til		MAN TESTING
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appastikkontakt med jord stikproppens jord." In Finland : "Laite ovarustettuun pistora In Norway : "Apparastikkontakt"	the applicable couratets stikprop skad som giver forbind n liitettävä suojakonsiaan"	arthed mains untries shall be al tilsluttes en delse til oskettimilla rdet		MAKTESTING OF THE STING
	equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appastikkontakt med jord stikproppens jord." In Finland : "Laite o varustettuun pistora In Norway : "Appara	the applicable couratets stikprop skad som giver forbind n liitettävä suojakonsiaan"	arthed mains untries shall be al tilsluttes en delse til oskettimilla rdet		MANTETING OF THE STIME

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NK TES !	EN 62368-1	NY TESTI	WAKTES
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the and of the subclause the following is added	district	N/A
	To the end of the subclause the following is added. The torque test is performed using a socket-outle complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Als see Annex G.4.2 of this annex	et De	O LUAR.
5.2.2.2	Denmark	CHING (II)	N/A
	After the 2nd paragraph add the following: A warning (marking safeguard) for high touch cur is required if the touch current exceeds the limits		HIANTESTING (
5.4.11.1	3,5 mA a.c. or 10 mA d.c. Finland and Sweden	OI W	0
and Annex G	To the end of the subclause the following is adde	d: 57 FG	N/A
	For separation of the telecommunication network from earth the following is applicable:	WALL WALL	O WAX IS
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which	0"	NAKTETING
	 shall pass the electric strength test below, or one layer having a distance through insulation at least 0,4 mm, which shall pass the electric strength test below. 	of Whateresting	MUNTESTING (
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances a creepage distances do not exist, if the component passes the electric strength test in accordance we the compliance clause below and in addition	t ESTING	WITE TIME
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplier 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 		MAN ALES ING
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of kV. 		NAKTESTING

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			EN 62368-1		
Clause	0,	Requirement + Tes	st 💮 💮	Result - Remark	Verdict
	capacitor	complying with EN 6038	84-14:2005,		
	subclass '		STING		STING
	A conscitu	or algorified V2 appordi	ng to FN 60204		MAKIL
		or classified Y3 accordir may bridge this insulation			
		ing conditions:	Sir dildoi		
	TING	3 JUAK TES	GTING		CTING
		ulation requirements are			HUAKTE
		ga capacitor classified Y -14, which in addition to			0
		with an impulse test of			
	5.4.11	TING MINITED	TING STING		CING
	- the order	ditional tacting shall be	n aufarmand an all tha		TES HUNTES
		ditional testing shall be p secimens as described in			(iii)
	toot op	Confictio do described in	11 214 00004 14,		
		se test of 2,5 kV is to be			
		ance test in EN 60384-1			TESTING
.5.2.1	Norway	s described in EN 60384	+-14.	HLAK.	N/A
.3.2.1	nonnay				
	After the 3	3rd paragraph the follow	ving is added:		120
	Due to the	e IT power system used	L capacitors are		TESTING
		o be rated for the applic			HUAK
3	voltage (2	230 V).		TING	9
.5.6	Finland, I	Norway and Sweden			N/A
	To the en	d of the subclause the f	ollowing is added:		y TESTING
	TO the ch	d of the substitute the h	ollowing to added.		M HI W
		used as basic safegua			
		ulation in class I plugo all comply with G.10.1 a			
	G.10.2.	all comply with G. 10. 1 a	and the test of		TING
.6.1	Denmark	TEE!	- JUAK TEET	- MAKTES!	N/A
	(a)				
		e end of the subclause any existing installations	where the socket		
		in be protected with fuse			-miG
	with highe	er rating than the rating	of the socket-		MAKTEST
		e protection for pluggab			AHO
	equipmen	nt type A shall be an inte	gral part of the		
	Justification		200		TNG (
	1	irk an existing 13 A sock	ket outlet can be		TAKTESI. P
		by a 20 A fuse.			1 House
.6.4.2.1	Ireland a	nd United Kingdom		7	N/A
	After the i	ndent for pluggable eq	uinment type A		
		ing is added:	aipinont type A,		X TESTING
	- the pro t	tective current rating is			KUAL
		the largest rating of fus	e used in the		
TING	mains plu	Jg.	į.		

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V TESTIN	JAKTE	STREET (III)	EN 62368-1	NA TESTING	LAK TESTINE
Clause	0,,,	Requirement + Te	st	Result - Remark	Verdict
5.6.4.2.1	the followi – in certai	ndent for pluggable ed ng is added: n cases, the protectiv	e current rating of	THE HURY TESTING	N/A
AK TESTING	instead of		TING	HI AN TESTING	TE MIG
5.6.5.1	The range accepted	cond paragraph the foll e of conductor sizes of by terminals for equipn er 10 A and up to and	flexible cords to be nent with a rated	HUAKTESTING	N/A
5.6.8	1,25 mm ²	to 1,5 mm ² in cross-se	ctional area.	HUANTESTING	N/A
J.H.AKTESTING	To the end Equipment classified marking re	d of the subclause the factorial transfer of the subclause the factorial transfer of the subclause the factorial transfer of the subclause the	rithed mains plug is See the Norway The symbol IEC	THE HURY TESTING	MAKTESTING
5.7.6	Denmark	This	3	TING	N/A
N. LES	The instal equipmen	d of the subclause the flation instruction shall be tif the protective conclusion to limits of 3,5 mA a.c.	pe affixed to the ductor current	WIESTING C	HUMETERINE
5.7.6.2	To the end The warni current is	d of the subclause the t ng (marking safeguard required if the touch cu current exceed the lim	following is added:) for high touch ırrent or the	O HUAY TESTING	N/A
5.7.7.1		nd Sweden	SIND O,O HIZA	N. TESTING	N/A
NCTESTING	The scree normally r and there system wi Therefore installation	d of the subclause the in of the television district earthed at the entral is normally no equipote thin the building. the protective earthing in needs to be isolated to b	ibution system is ince of the building ential bonding	O HUAN TESTING	MANAGE TIME
MUNY TESTIN	It is howevexternal to	ribution system. ver accepted to provide the equipment by an a ection cable with galvar rovided by a retailer, for	adapter or an nic isolator, which	MAKTESTING MAKTESTING	WHO HESTING
HUAKTESTING	similar info	manual shall then have ormation in Norwegian respectively, dependin ment is intended to be	and Swedish g on in what country	THE HUMETESTING	WAY TESTING

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	AND AND HUMAN	Page 68 of 81	Report No.: HK2	501030026-SR
NK TESTING		EN 62368-1		
Clause	Requirement	+ Test	Result - Remark	Verdict
HUAKTESTING	"Apparatus connected to the the building installation throu connection or through other connection to protective earl	igh the mains apparatus with a	THE WARTESTING	WAY TESTING
	and to a television distribution cable, may in some circumstinated. Connection to a telesystem therefore has to be providing electrical is frequency range (galvanic is	tances create a fire evision distribution or ovided through a solation below a certain	WHAKTESTING O	HUAKTE MVG
	NOTE In Norway, due to reginstallations, and in Sweden provide electrical insulation I	, a galvanic isolator shall	WANTESTING OF HUANTESTING	WHY TESTING O
	insulation shall withstand a ckV r.m.s., 50 Hz or 60 Hz, fo Translation to Norwegian (the be accepted in Norway):	dielectric strength of 1,5 or 1 min.	THE MAKESTING	What TESTING
	"Apparater som er koplet til I nettplugg og/eller via annet j utstyr – og er tilkoplet et koa nett, kan forårsake brannfar	jordtilkoplet ksialbasert kabel-TV	WAKTESTING O	HUAKTETING
	For å unngå dette skal det v apparater til kabel-TV nett in galvanisk isolator mellom ap nettet."	red tilkopling av nstalleres en	E HUANTESTING	OHINE TESTING
	Translation to Swedish: "Apparater som är kopplad t vägguttag och/eller via anna samtidigt är kopplad till kabe medföra risk för brand. För a anslutning av apparaten till k isolator finnas mellan appara nätet."	an utrustning och el-TV nät kan i vissa fall att undvika detta skall vid kabel-TV nät galvanisk	HAKTESTING	MAKTESTING
8.5.4.2.3	United Kingdom	HUAKTESTA	0,,,	N/A
	Add the following after the 2 paragraph:	nd dash bullet in 3rd	G HUAN TESTING	-16
	An emergency stop system or requirements of IEC 60204-required where there is a ris	1 and ISO 13850 is	WHAT TESTINE	O HU IK TESTING
B.3.1 and	Ireland and United Kingdom			N/A
B.4	The following is applicable:	HAKTESTING MAKTES	HAKTESTING	WAK TESTING
0	To protect against excessive circuits in the primary circuit		(a)	

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TESTIN	EN 62368-1	TESTING	WIESTING W
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until	ST ST IN STREET IN S	MANTESTINE
G.4.2	the requirements of Annexes B.3.1 and B.4 are met Denmark	man.	N/A
G.4.2	To the end of the subclause the following is added:	WINDS	
	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.	W HILINGTE STING	UNTESTING (
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	TOTAL MINISTRAL MARKET	MANTESTING
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	HUANTESTING HUANT	EC TING
	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.		UN TESTING
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	STAGE WANTESTING	NAKTESTING
	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	MAKTESTING MAKET	ES TIME
	Justification: Heavy Current Regulations, Section 6c	W HUAN TESTING	THE M
G.4.2	United Kingdom To the end of the subclause the following is added:	WINKES IN OF	N/A
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an	O HUAK TEL	NANTESTING

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	FURNITES	Page 70 of 81	Report No.: HK2501030026-SR		
NX TESTING	WAY TESTING W	EN 62368-1	OK TESTING		AK TESTING
Clause	Requirement + Test	0,,	Result - Remark	.	Verdict

	Insulated Shutter Opening Device (ISOD), the		
CTING	requirements of clauses 22.2 and 23 also apply.	ig Ture	CTING
G.7.1	United Kingdom	MAKTER	N/A
	To the first paragraph the following is added:		
	ESTIVS	TESTING	
	Equipment which is fitted with a flexible cable or cord	HUAKTI	CTING
	and is designed to be connected to a mains socket	WAK TE	
	conforming to BS 1363 by means of that flexible		
	cable or cord shall be fitted with a 'standard plug' in	ESTING	
	accordance with the Plugs and Sockets etc. (Safety)	- WAKTE	
	Regulations 1994, Statutory Instrument 1994 No.	(I)	STING (
	1768, unless exempted by those	JAKTES!	W. The
	regulations.	11 10 10 10 10 10 10 10 10 10 10 10 10 1	
	NOTE "Chandard plus" is defined in \$1.4760.4004		
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming		
	to BS 1363 or an approved conversion plug.	Dia. Di	, NG
O TWILETING	Ireland	K TESTING	X TETIN
G.7.1	il cialiu	HUM	N/A
	To the first paragraph the following is added:		
	The tree may be a superior to the superior to	TING	
	Apparatus which is fitted with a flexible cable or cord	"LAK TES"	THE
	shall be provided with a plug in accordance with	M HO	577
	Statutory Instrument 525: 1997, "13 A Plugs and	HD.	
	Conversion Adapters for Domestic Use Regulations:	TING	
	1997. S.I. 525 provides for the recognition of a	MAKTES	
	standard of another Member State which is	Me Me	-mg
V TESTIL	equivalent to the relevant Irish Standard	W TESTING	KTES.
G.7.2	Ireland and United Kingdom	White William	N/A
	To the first paragraph the following is added:		
	A newer cumply cord with a conductor of 1.25 mm ² is	Ð ₁₀₀ Đị	-NG
	A power supply cord with a conductor of 1,25 mm2 is	N TESTIN	KTESTIL
	allowed for equipment which is rated over 10 A and up to and including 13 A.	HUAN M	Upra
9)	Tup to and including 13 A.	(SS)	

16'D		13	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		○ N/A

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		EN 62368-1		
Clause	Requirement + Te	st	Result - Remark	Verdict
10.5.2	Germany The following requirement applies	STING	3 TESTING	N/A
	The following requirement applie For the operation of any cathode the display of visual images oper	e ray tube intended for	What .	O WAR.
	acceleration voltage exceeding 4 required, or application of type approval (Bauartzulassung) and	40 kV, authorization is	MAKTESTIN	HUAKTERTING
	Justification German ministerial decree again (Röntgenverordnung), in force si 2002-07-01, implementing the Et 96/29/EURATOM.	nst ionizing radiation ince	HUANTES I.	O HUNTESTING
JUAN TESTING	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Braunschweig, Tel.: Int+49-531-592-6320, Internet: http:		THE WAY TESTING	WAY TESTING

ZD IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN) N/A

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NY TESTING	WANTESTING WHI	EN 62368-1	STING WESTING	. 11	JAK TESTING
Clause	Requirement + Test	0.	Result - Remark	.	Verdict

·					
		Type of flexible cord	Code desig	nations	N/A
	æ		IEC	CENELEC	UAK TES
	(3)	PVC insulated cords			-
		Flat twin tinsel cord	60227 IEC 41	H03VH-Y	MAG
	JAK	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
		Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	V TESTING
	B) (Rubber insulated cords			200
		Braided cord	60245 IEC 51	H03RT-F	
		Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	an)G
	681	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	MAKTESTIN
	(68)	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
		Cords having high flexibility		•	UNG.
	JAK	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	Para.
		Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
		Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	TESTING (
	D "	Cords insulated and sheathed with halogen- free thermoplastic compounds			-3-
		Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	TNG
	0	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	UAKTESTI
TING		- An-	WFM	*	_

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STING



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-Appendix 2: Photo document.



Photo 1: Overall view

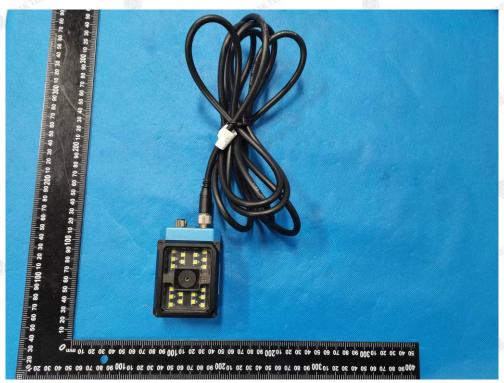


Photo 2: Overall view

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Photo 3: Overall view



Photo 4: Overall view

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Photo 5: Overall view



Photo 6: Overall view

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Photo 7: Overall view



Photo 8: Internal view

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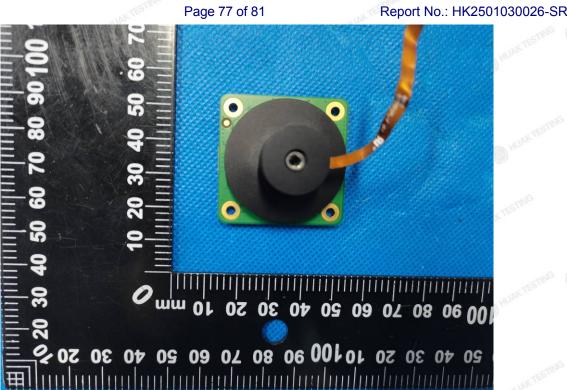


Photo 9: PCB view

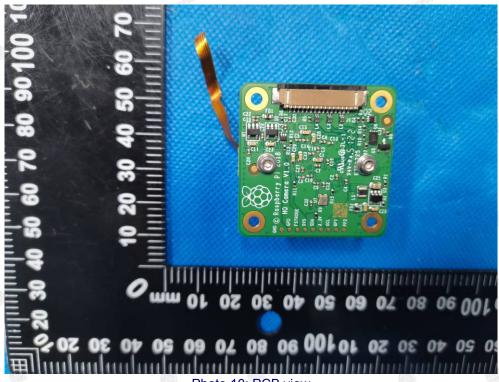


Photo 10: PCB view

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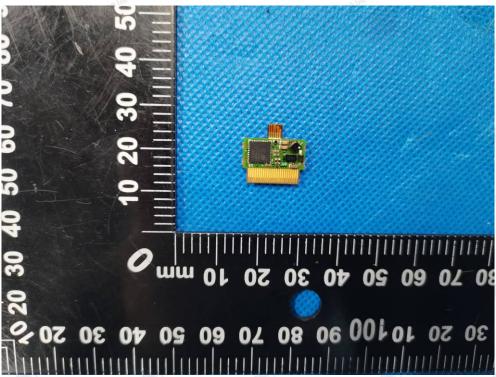


Photo 11: PCB view

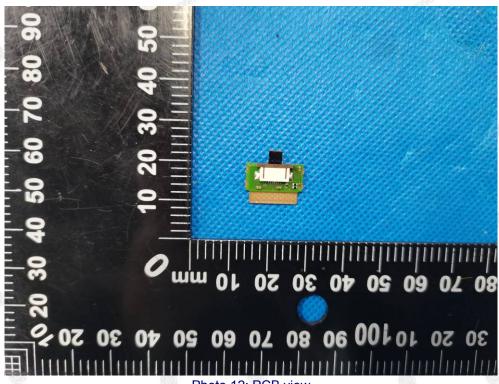


Photo 12: PCB view

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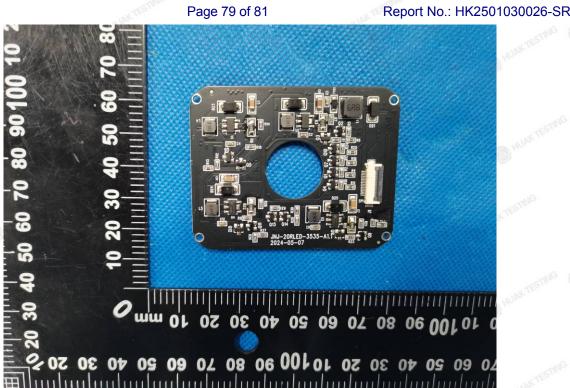
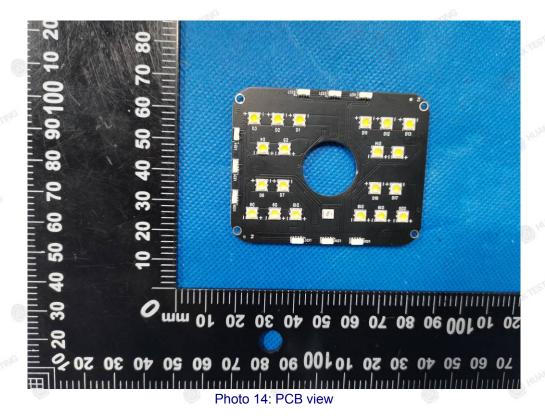


Photo 13: PCB view



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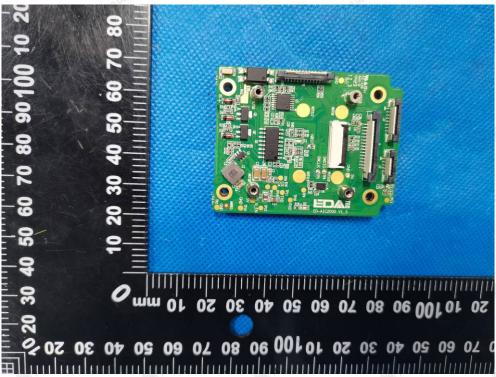


Photo 15: PCB view

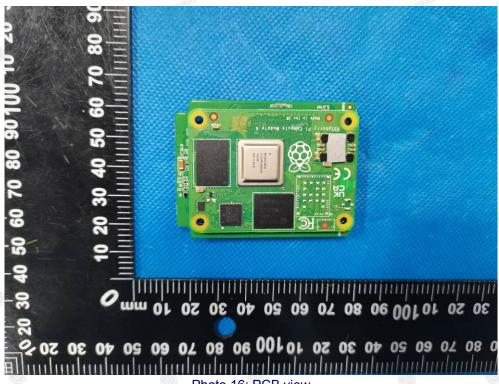


Photo 16: PCB view

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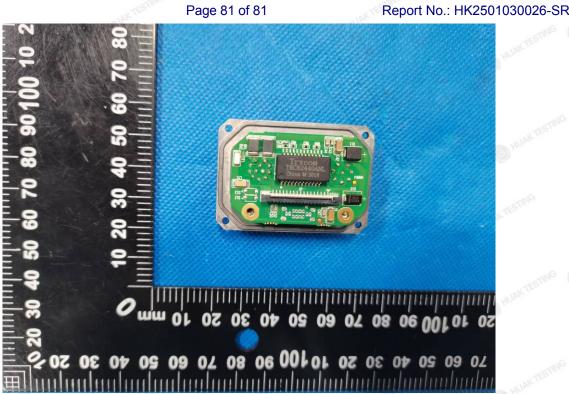


Photo 17: PCB view



Photo 18: PCB view

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