LVD TEST REPORT

IEC 60065: 2014

&EN 60065: 2014/A11:2017

Audio, video and similar electronic apparatus- Safety requirements

For

Guangzhou Baolun Electronic Co., Ltd.

No.1, Building B Block, Zhongcun Street, Panyu District, Guangzhou, China

Model: see attachment

Janaury 25, 2019

This Report Concerns:	Equipment Type:
○ Original Report	Professional Loudspeaker
Test Engineer:	Eric / FM. D
Report Number:	TH19AR-129S
Test Date:	January 18~25, 2019
Reviewed By:	Prince / Prince /
Approved By:	Prince / 於
Prepared By:	Shenzhen Tian Hai Test Technology Co., Ltd.
A 15	4F, A3 BLDG, The Silicon Valley Power intelligent terminal industrial park, Guanlan street, Longhua district, Shenzhen
	Tel: 86-755-86615100 . Fax: 86-755-86615105

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tian Hai Test Technology Co,.Ltd.

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Audio, video and similar electronic apparatus- Safety requirements

Report Reference No......TH19AR-129S

Tested by (signature)..... Eric /

Reviewed by (signature)..... Prince /

Approved by (signature)...... Prince /

Date of issue...... January 25, 2019

Testing Laboratory Name..... Shenzhen Tian Hai Test Technology Co., Ltd.

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

Testing location...... Same as above

Applicant's Name...... Guangzhou Baolun Electronic Co., Ltd.

Manufacturer's Name...... Guangzhou Baolun Electronic Co., Ltd.

Factory's Name...... Guangzhou Baolun Electronic Co., Ltd.

Test specification

Standard...... IEC 60065: 2014&EN 60065: 2014/A11:201

Test procedure CE-LVD

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

Professional Loudspeaker Test item description....:

Trade mark..... ITC

Model and/or type reference...... See attachment

Speaker subassembly without rated power or current consumption

Input:100V, 200W

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Copy of marking plate

(use model TS-8A as an example. The marking label of other models are similar except for model names.)

Professional Loudspeaker Model No.: TS-8A Audio Input: 100V, 200W



Notes:

- The above markings are the minimum requirements required by safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- The marking label was silk-screened or labeled on rear enclosure.
- The CE marking and WEEE symbol should be at least 5.0 mm and 7.0 mm respectively in height.
- The model no. can be replaced by others listed in this report.

Summary of testing:

- 1) The sample tested complies with the requirements of the test specification.
- 2) Following symbols and abbreviations maybe used in this test report

B= Basic Insulation

S= Supplementary Insulation

D/R= Double or Reinforced Insulation

S/C= Short-Circuit.....

O/C= Open-Circuit

O/L= Over-Load

B/L= Block

CT= Constant temperatures were obtained

CD= Components damaged (list damaged components)

NCD= No components damaged (list damaged components)

NB= No indication of dielectric breakdown

NH= No Hazard Occurred

Pri.= Primary

Sec.= Secondary

PCB= Printed Circuit Board

PSU= Power Supply Unit

EUT= Equipment Under Test

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Test item particulars:

Classification of installation...... Portable apparatus

Possible test case verdicts:

- Test case does not apply to the test object.... N/A (Not Applicable)

- Test object does meet the requirement....: P (Pass)

- Test object does not meet the requireme...: F (Fail)

Testing:

Date of receipt of test item...... January 17, 2019

General remarks:

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

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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

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

Throughout this report, a point (coma) is used as the decimal separator.

List of test equipment must be kept on file and available for review.

General production information:

- The equipment is a speaker subassembly, designated as a professional apparatus and deemed to wall mounted design for intended use, but not intended for sale to the general public.
- All models covered by this report are identical, except for their model designation and appearance, all tests were conducted on the model TS-8A.

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
3	GENERAL REQUIREMENTS	19 19	
3	Safety class of the apparatus:	Not classified.	N/A
4 118	GENERAL CONDITIONS OF TESTS	The Part of the	P
4.1.4	Ventilation instructions require the use of the test box	The appliance positioned in accordance with the	P
19		instructions for use provided by the manufacturer.	Á
F	8 8 8	The state of the s	- 4
5	MARKING	1	P
	Comprehensible and easily discernible	Considered.	₹ P
1	Permanent durability against water and petroleum spirit	No	P
5.1	Identification and supply ratings	2	Р
4	a) Identification, maker :	Guangzhou Baolun Electronic Co., Ltd.	P
T.F.	b) Model number or type reference :	TS-8A	P
F	c) Class II symbol if applicable :	17	N/A
	d) Nature of supply:	15	P,S
5	e) Rated supply voltage :	See marking plate.	P
4	f) Mains frequency if safety dependant :	F. F.	N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use:	Z. Z.	N/A
	Measured current or power consumption :	<u> </u>	A N/A
	Deviation % (max 10%) :	# 4 4	N/A
AH P	h) Rated current or power consumption for apparat-us intended for connection to an a.c. mains supply :	See marking plate.	N/A
7	Measured current or power consumption :	See marking plate.	N/A
ζ	Measured current or power consumption for Television set:	Not Television set	N/A
	Deviation % (max 10%) :	See appended table	Λ P
5.2	Terminal	E E	N/A
N. S.	a) Earth terminal	The The The	N/A
F	b) Hazardous live terminals	T. B.	N/A
~	c) Markings on supply output terminals	\$	N/A

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. /	IEC/EN 60065	T. T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
5.3	Caution marking	No such part	N/A
The state of the s	a) Use of triangle with exclamation mark	The Property of the Property o	N/A
IF	b) marking on loudspeaker grille, IEC 60417-5036	The Fig. 1,	N/A
5.4	Instructions for use	English	P
5.4.1	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.	See user manual.	P
72	b) Hazardous live terminals, instructions for wiring	No hazardous terminal	N/A
	7 7 7	<u>Z</u>	<u> </u>
	c) Instructions for replacing lithium battery	No battery.	N/A
	d) Class I earth connection warning	5	N/A
	e) Instructions for multimedia system connection	6 4 6	P
L	f) Special stability warning for attachment of the apparatus to the floor/wall	E E	N/A
The	g) Warning: battery exposure to heat		N/A
R	h) Warning: protective film on CRT face	77	N/A
5.4.2	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	25	N/A
15	c) Instructions for permanently connected equipment	The The Table	N/A
	Marking, signal lamps or similar for completely disconnection from the mains	THE THE I	N/A
,)	HAZARDOUS RADIATION	4 17	N/A
5.1	Ionizing radiation <36 pA/kg (0,5 mR/h)	No ionizing radiation inside the equipment	N/A
The state of the s	Ionizing radiation under fault condition		N/A
5.2	Laser radiation, emission limits to IEC 60825-1:200	No laser radiation inside the equipment	N/A
	Emission limits under fault conditions:		N/A
	Emission mints under fault conditions	5	11//1
7	HEATING UNDER NORMAL OPERATING CONDI	ITIONS	ς P
7.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	See appended table	Р
7.1.1	Temperature rise of accessible parts	See appended table	P
7.1.2	Temperature rise of parts providing electrical insulation	See appended table	P

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	IEC/EN 60065	Y. TR	
Clause	Requirement – Test	Result – Remark	Verdict
7.1.3	Temperature rise of parts acting as a support or as a mechanical barrier	No such part	N/A
7.1.4	Temperature rise of windings	See appended table	P
7.1.5	Parts not subject to a limit under 7.1.1 to 7.1.4	See appended table	P
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current >0,2A at least 150 °C		N/A
347	CONSTRUCTIONAL REQUIREMENTS WITH R AGAINST ELECTRIC SHOCK	EGARD TO THE PROTECTION	N/A
3.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	No shock hazard	N/A
3.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	No shock hazard	N/A
3.3	Insulation of hazardous live parts not provided by hygroscopic material		N/A
3.4	No risk of electric shock following the removal of a cover which can be removed by hand	. In Miles	N/A
3.5	Class I equipment		N/A
,	Basic insulation between hazardous live parts and earthed accessible parts	8 6	N/A
4	Resistors bridging basic insulation complying with 14.1 a)	AND	N/A
1	Capacitors bridging basic insulation complying with 14.2.1 a)	T. J. T.	N/A
	Protective earthing terminal	4	N/A
3.6	Class II equipment and Class II constructions within Class I equipment	Class III	N/A
ZHR	Reinforced or double insulation between hazardous live parts and accessible parts		N/A
TR	Components bridging reinforced or double insulation complying with 14.1 a) or 14.3	The state of the s	N/A
	Basic insulation bridged by components complying with 14.3.4.3.	No such components	N/A
	Basic and supplementary insulation each being bridged by a capacitor complying with 14.2.1a)	No such components.	N/A
4	Reinforced or double insulation being bridged with 2 capacitors in series complying with 14.2.1 a)	No such components.	N/A
ZZZ	Reinforced or double insulation being bridged with a single capacitor complying with 14.2.1 b)	No such components.	N/A

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdic
8.8	Basic or supplementary insulation >0,4mm (mm):	24 15	N/A
Z.	Reinforced insulation >0,4mm (mm):	The Francisco	N/A
TR	Thin sheet insulation (excluding non-separable thin sheet insulation. See 8.22)	A A II	N/A
4	Basic or supplementary insulation, at least two layers, each meeting 10.3	4 6	N/A
LE LE	Basic or supplementary insulation, three layers any two of which meet 10.3	E SE	N/A
77	Reinforced insulation, two layers each of which meet 10.3	N. N. N.	N/A
.0	Reinforced insulation, three layers any two which meet 10.3	T. R.	N/A
3.9	Adequate insulation between internal hazardous live conductors and accessible parts	2	N/A
15	Adequate insulation between internal hazardous live parts and conductors connected to accessible parts	Li A	N/A
3.10	Double insulation between conductors connected to the mains and accessible parts.	F IN ANT	N/A
IF	Double insulation between internal hazardous live parts and conductors connected to accessible parts.	TA	N/A
3.11	Detaching of wires	49	N/A
5	No undue reduction of creepages or clearance distances if wires become detached	The Later of the L	N/A
	Vibration test carried out:	The state of the s	N/A
3.13	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20N for 10s)	TA	N/A
3.14	Adequate fastening of covers (pull test 50N for 10s)	150	N/A
3.15	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges	3 4 3	N/A
3.16	Only special supply equipment can be used	JR JR	N/A
8.17	Insulated winding wire without additional interleaved insulation	TAN TO THE PARTY OF THE PARTY O	N/A
3.18	Endurance test as required by 8.17	4	N/A
3.19	Disconnection from the mains	1 L	N/A
3.19.1	Disconnect device	Lill All	N/A
, N	All-pole switch or circuit breaker with >3mm contact separation	E THE ST	N/A
3.19.2	Mains switch ON indication	77	N/A
8.20	Switch not fitted in the mains cord	,6	N/A

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	IEC/EN 60065	~ LA	
Clause	Requirement – Test	Result – Remark	Verdic
.21	Bridging components comply with clause 14	4 5	N/A
.22	Non-separable thin sheet material	The Property of the Property o	N/A
TR	ELECTRIC SHOCK HAZARD UNDER NORMAL O	OPERATING CONDITIONS	P
.1	Testing on the outside	~ ~	P
.1.1.5	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation	No such high voltage	N/A
K1.1	a) Open circuit voltages	Measured between L/N and accessible parts only: U1: max. 1,02Vpeak U2: max. 0,256Vpeak (Limited: U1≤35Vpeak U2≤0,35Vpeak)	PHAR
	b) Touch current measured from terminal devices using the network in annex D:	See appended table	N/A
4	c) Discharge not exceeding 45µC	Less than 45 μC.	Р
· A	d) Energy of discharge not exceeding 350mJ	F F F	N/A
1.1.2	Test with test finger and test probe	No live parts can be touched	N/A
1.2	No hazardous live shafts of knobs, handles or levers	Not directly connected to the mains	N/A
.1.3	Ventilation holes and other holes tested by means of 4mm x 100mm test pin	No hazardous live parts became accessible.	N/A
1.4	Terminal devices tested with 1mm x 20mm test pin (10N); test probe D of IEC 61032	See above.	N/A
	Terminal devices tested with 1mm x 100mm straight wire (1N); test probe D of IEC 61032	72	N/A
1.5	Pre-set controls tested with 2.5mm x 100mm test pin (10N); test probe C of IEC 61032	No pre-set controls	N/A
1.6	No shock hazard due to stored charge on withdrawal of the mains plug; voltage (V) after 2 s	No such parts	N/A
R	If C is not greater than 0,1 μF no test needed	THE THE	N/A
1.7	Resistance to external forces	TA	N/A
	a) Test probe 11 of IEC 61032 for 10 s (50 N)	No hazard.	N/A
	b) Test hook of fig. 4 for 10 s (20 N)	No hazard.	/ N/A
	c) 30 mm diameter test tool for 5 s (100 or 250 N):	The state of	N/A
2 18	No hazard after removing a cover by hand	St. Th. St.	N/A
D. F.	INSULATION REQUIREMENTS	4	N/A
0.1	Insulation resistance (M Ω) at least 2 M Ω min. after	No insulation requirements.	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
1	insulation :		4
10.2	Humidity treatment 48 h or 120 h :	F Li Z	N/A
10.3	Insulation resistance and dielectric strength between mains teminals	See appended table	N/A
	Insulation Resistance and dielectric strength across BASIC or SUPPLEMENTARY insulation (Class 1)	See appended table	N/A
25	Insulation resistance and dielectric strength across REINFORCED insulation (Class II)	See appended table	N/A
[1]	FAULT CONDITIONS		P
11.1	No shock hazard under fault condition	No shock hazard.	Zi ^P P
11.2	Heating under fault condition	No hazard.	P
^	No hazard from softening solder	No solder softened during the test.	P
4	Flames extinguish within 10 seconds	No flames.	P 3
J. J. J.	Soldered terminations not used as protective mechanism	THE THE	P
11.2.1	Measurement of temperature rises	See appended table	P
11.2.2	Temperature rise of accessible parts	See appended table	P,S
11.2.3	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	See appended table	P
11.2.4	Temperature rise of parts acting as a support or mechanical barrier	THE THE	N/A
11.2.5	Temperature rise of windings	See appended table	N/A
11.2.6	Temperature rise of printed boards shall not exceed the limits of table 3 by max. 100 K for max. 5 min	No electrical insulation.	P
A A A	Printed circuit boards (PCB) classified as V-0 according to 60695-11-10 or Clause G.1 may exceed the limit in table 3 in case a) and b):	Within limit	N/A
T. S.	a) Temperature rise of printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ² :	Within limit	N/A
	b) Temperature rise of printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm² for a maximum of 5 min	Within limit	N/A
Ź	Meets all the special conditions if conductors on printed circuit boards are interrupted	Within limit	N/A
TR	Class I protective earthing maintained	St. Th. Th.	N/A
11.2.7	Temperature rise of parts not subject to the limits of 11.2.1 to 11.2.6 shall not exceed the limits in table 3, item e), "Fault conditions".	See appended table	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
12	MECHANICAL STRENGTH	4 5	N/A
12.1.1	Bump test where mass >7 kg	Less than 7Kg	N/A
12.1.2	Vibration test	No hazards	N/A
12.1.3	Impact hammer test	A	N/A
5	Steel ball test		N/A
12.1.4	Drop test for portable apparatus where mass < 7 kg	2 5	N/A
12.1.5	Thermoplastic enclosures strain relief test		N/A
12.2	Fixing of knobs, push buttons, keys and levers	E	N/A
12.3	Remote controls with hazardous live parts	No remote control	N/A
12.4	Drawers (pull test 50 N, 10 s)	No drawers	N/A
12.5	Antenna coaxial sockets providing isolation	No antenna sockets	N/A
12.6	Telescoping or rod antennas construction	No antenna used	N/A
12.6.1	Telescoping or rod antennas securement	No antenna used	N/A
13	CLEARANCE AND CREEPAGE DISTANCES	5	N/A
13.1	Clearances in accordance with 13.3	8	N/A
Ž.	Creepage distances in accordance with 13.4	The state of the s	N/A
13.2	Determination of operating voltage		N/A
13.3	Clearances	4	N/A
13.3.1	General	4	N/A
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	The state of the s	N/A
13.3.3	Circuits not conductively connected to the mains comply with table 10	The The	N/A
13.3.4	Measurement of transient voltages	TA	N/A
13.4	Creepage distances	<u> </u>	N/A
	Creepage distances greater than table 11 minima	\$ £	A N/A
13.5	Printed boards	No such part	N/A
13.5.1	Clearances and creepage distances between conductors on printed circuit boards, one of which may be conductively connected to the mains, as in fig. 10	The like the	N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	4 4 1	N/A
	N 6 2 6	2 6	

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	IEC/EN 60065	T. T. T.	
Clause	Requirement – Test	Result – Remark	Verdic
3.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4		N/A
K	Conductive parts along reliably cemented joints comply with 8.8	EN THE THE	N/A
	Temperature cycle test and dielectric strength test	T. T.	N/A
5	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety	5	N/A
3.7	Enclosed, enveloped or hermetically sealed parts: not conductively connected to the mains: clearances and creepage distances as in table 12	SH WHAT WAS A SHARE OF THE SHAR	N/A
3.8	Parts filled with insulating compound, meeting the requirements of 8.8	A TI	N/A
4	COMPONENTS	5	P
4.1	Resistors	Not such resistors used	N/A
4	a) Resistors between hazardous live parts and accessible metal parts		N/A
Y. Y.	b) Resistors, other than between hazardous live parts and accessible parts		N/A
The same of the sa	Resistors separately approved:		N/A
4.2	Capacitors and RC units	4 1	N/A
15	Capacitors separately approved	The things of the tenth of the	N/A
4.2.1	Y capacitors tested to IEC 60384-14:2005:	No such parts	N/A
4.2.2	X capacitors tested to IEC 60384-14:2005:	No such parts	N/A
4.2.3	Capacitors operating at mains frequency but not connected to the mains: tests for X2	No such capacitors	N/A
4.2.5	Capacitors with volume exceeding 1750 mm³, where short-circuit current exceeds 0,2 A: compliance with IEC60384-1, 4.38 category B or better	The state of the s	N/A
T. R.	Capacitors with volume exceeding 1750 mm ³ , mounted closer to a potential ignition source than table 5 permits: compliance with IEC 60384-1, 4.38 category B or better	THE THE THE	N/A
	Shielded by a barrier acc. to 20.1.4/ table 21 or metal	Ś	N/A
4.3	Inductors and windings	Audio amplifier transformer only applied.	N/A
X	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.1.4	A LA HA	N/A
4.3.1	Transformers and inductors marked with manufacturer's name and type:	, ZF	N/A
	Transformers and inductors separately approved:	,5	N/A

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	IEC/EN 60065	T.A.	
Clause	Requirement – Test	Result – Remark	Verdict
14.3.2	General		N/A
The	Insulation material complies with clause 20.1.4	The Fr St	N/A
14.3.3	Constructional requirements	B. S. V.	N/A
14.3.3.1	Clearances and creepage distances comply with clause 13		N/A
14.3.3.2	Transformers meet the constructional requirements		N/A
14.3.4	Separation between windings	14 II	N/A
14.3.4.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)	THE THE	N/A
\(\text{\chi}\)	Coil formers and partition walls > 0,4 mm		N/A
14.3.4.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions of 14.3.4.2 are met		N/A
14.3.4.3	Separating transformers with at least basic insulation	No separating transformers	N/A
14.3.5	Insulation between HAZARDOUS LIVE parts and ACCESSIBLE parts	I.R.	N/A
14.3.5.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
2	Coil formers and partition walls > 0,4 mm	The state of the s	N/A
14.3.5.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal	The Thirty T	N/A
K	Winding wires connected to protective earth have adequate current-carrying capacity	\$ 5	N/A
14.4	High voltage components	No such components	N/A
TA	High-voltage components and assemblies: U > 4 kV (peak) separately approved	Maria Vi	N/A
4	Component meets category V-1 of IEC 60695-11-10	4	N/A
14.4.1	High voltage transformers and multipliers tested as part of the submission	5	N/A
14.4.2	High voltage assemblies and other parts tested as part of the submission		N/A
14.5	Protective devices	The state of the s	N/A
TA	Protective devices used within their ratings	4	N/A
	External clearances and creepage distances meet	, 42 ,	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
	requirement of clause 13 for the voltage across the device when opened		4
4.5.1.1	a) Thermal cut-outs separately approved	THE PER PER	N/A
1/2	b) Thermal cut-outs tested as part of the submission	T. F.	N/A
4.5.1.2	a) Thermal links separately approved	~ ~	N/A
15	b) Thermal links tested as part of the submission	5 1 2	N/A
4.5.1.3	Thermal devices re-settable by soldering	LE IN	N/A
4.5.2.1	Fuse-links in the mains circuit according to IEC 60127	AND LE	N/A
4.5.2.2	Correct marking of fuse-links adjacent to holder:	No fuse fitted in parallel	N/A
4.5.2.3	Not possible to connect fuses in parallel:	,5	N/A
4.5.2.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool:		N/A
4.5.3	PTC thermistors comply with IEC 60730-1:2007	No PTC thermistors used	N/A
ZZZ	PTC devices (15 W) category V-1 or better	No PTC devices used	N/A
4.5.4	Circuit protectors have adequate breaking capacity and their position is correctly marked	No circuit protectors used	N/A
4.6	Switches	5 5	N/A
(4.6.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - Make and break speed independent of speed of actuation V-0 compliance with annex G, G.1.1	THE THE PARTY OF T	N/A
4.6.1 b)	Tested in the apparatus:	B S B	N/A
THE	Switch controlling > 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.3, 14.6.4 and V-0 in annex G, G.1.1	ENTRY LIE	N/A
	Switch controlling > 0.2A with open contact voltage < 35 V (peak)/24 V dc complying with 14.6.3 and V-0 in annex G, G.1.1	25	N/A
Ä	Switch controlling < 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 in annex G, G.1.1	SHARW ST	N/A
4.6.2	Switch tested to 14.6.1 b) constructed to IEC 61058-1 subclause 13.1 and has making/breaking action independent of speed of actuation	K. T. LER	N/A
4.6.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining	19	N/A

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	IEC/EN 60065	7. 18.	
Clause	Requirement – Test	Result – Remark	Verdict
8	excessive temperatures in use	4 6 3	4
14.6.4	Switch tested to 14.6.1 b) has adequate dielectric strength	ALL ALL ALL	N/A
14.6.5	Mains switch controlling mains socket outlets additional tests to IEC 60058-1	A A A	N/A
4	Socket outlet current marking correct	4	N/A
14.7	Safety interlocks	No safety interlocks used	N/A
.X	Safety interlocks to 2.8 of IEC 60950-1	The This	N/A
14.8	Voltage setting devices and the like	THE THE	N/A
Ä	Voltage setting device not likely to be changed accidentally	T. T.	N/A
14.9	Motors	No motors.	N/A
14.9.1	Endurance test on motors	£ X 4	N/A
	Motor start test	E B B	N/A
ZZ	Dielectric strength test	, E	N/A
14.9.2	Not adversely affected by oil or grease etc.		N/A
14.9.3	Protection against moving parts	LE L	N/A
14.9.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B	THE THE PERSON OF THE PERSON O	N/A
14.10	Batteries	No batteries used	N/A
14.10.1	Batteries mounted with no risk of accumulation of flammable gases	\$	N/A
14.10.2	No possibility of recharging non-rechargeable batteries	The	N/A
14.10.3	Recharging currents and times within manufacturers limits	ALL LE	N/A
	Lithium batteries discharge and reverse currents within the manufacturers limits	72	N/A
14.10.4	Battery mould stress relief	, 2	N/A
14.10.5	Battery drop test	2 4	N/A
14.11	Optocouplers	A A A	N/A
ZYP	a) Comply with 13.6 (jointed insulation) and N.2.1	z y Zu	N/A
IR	b) Comply with IEC 60747-5-5:2007	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N/A
	Alternative to a) and b) optocoupler comply with	42	N/A

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	IEC/EN 60065	TA	
Clause	Requirement – Test	Result – Remark	Verdic
	13.8	£ 5 .	4
378	a) Comply with 13.6 (jointed insulation) and N.2.1	THE STEEL STATE	N/A
4.12	Surge suppression varistors	No surge suppression varistors used	N/A
	Comply with IEC 61051-2		N/A
A/YESY	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	N/A
Σ'	Complies with the current pulse, fire hazard and thermal stress requirements of 14.12	THE THE	N/A
5	TERMINALS	The state of the s	N/A
5.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard		N/A
A LUI	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	No mains socket outlets.	N/A
N. S.	Overloading of internal wiring prevented if the apparatus has mains socket outlets	No mains socket outlets	N/A
5.1.2	Connectors for antenna, earth, audio, video or data	15	P
4	No risk of insertion in mains socket-outlets	\$ 15	P
47	No risk of insertion into audio- or video- outlets marked with the symbol of 5.2	THE THE PERSON OF THE PERSON O	P
5.1.3	Output terminals of a.c. adaptors or similar devices not compatible with household mains socket-outlets	No such terminals	N/A
5.2	Provision for protective earthing		N/A
MARKET	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	A LEW MAN	N/A
The state of the s	Protective earth conductors correctly coloured	N. A.	N/A
	Equipment with non-detachable mains cord provided with separate protective earth terminal near mains input		N/A
	Protective earth terminal resistant to corrosion	£ X	9 N/A
	Earth resistance test: $< 0.1 \Omega$ at 25 A	A A A	N/A
5.3	Terminals for external flexible cords and for permanent connection to the mains supply		N/A
5.3.1	Adequate terminals for connection of permanent wiring	15	N/A

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	IEC/EN 60065	7 18	
Clause	Requirement – Test	Result – Remark	Verdict
15.3.2	Reliable connection of non-detachable cords:		N/A
37	Not soldered to conductors of a printed circuit board	THE SEL PRINCE	N/A
TA	Adequate clearances and creepage distances between connections should a wire break away	The state of the s	N/A
4	Wire secured by additional means to the conductor	4	N/A
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar	No such fixing	N/A
15.3.4	Soldered conductors wrapped around terminal prior to soldering or held in place by additional means	THE	N/A
4	Clamping of conductor and insulation if not soldered or held by screws	N. C.	N/A
15.3.5	Terminals allow connection of appropriate cross-sectional area of conductors, for the rated current of the equipment	E LA LA LOS	N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	No such terminals.	N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure	No such terminals.	N/A
	Terminals designed to avoid conductor slipping out when tightened or loosened	153	N/A
524	Terminals adequately fixed to avoid loosening when the clamping is tightened or loosened and stress on internal wiring is avoided	A A A A A A A A A A A A A A A A A A A	N/A
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic	No such terminals.	N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other	8 5 5	N/A
NA N	Terminals located and shielded: test with 8 mm strand		N/A
15.4	Devices forming a part of the mains plug	Audio signal input, not directly connected to the mains, no such terminals	N/A
15.4.1	No undue strain on mains socket-outlets	19	N/A
15.4.2	Device complies with standard for dimensions of mains plugs	E HE S	N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)	A IN IN	N/A
16	EXTERNAL FLEXIBLE CORDS		N/A
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic	5	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
1	rubber cords	2 6	4
Z.Y.	Non-detachable cords for Class I have green/yellow core for protective earth	THE STEEL STATE	N/A
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment	A WALL	N/A
16.3	a) Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages, have adequate dielectric strength	No interconnection wires used	N/A
	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress (3.2 of IEC 60227-2)	A A	N/A
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions	The state of the s	N/A
16.5	Adequate strain relief on external flexible cords	E F A	N/A
ZZZ	Not possible to push cord back into equipment	, E	N/A
Th.	Strain relief device unlikely to damage flexible cord		N/A
_	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor	15	N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use	THE THE PERSON OF THE PERSON O	N/A
16.7	Transportable musical instruments and amplifiers fitted with detachable cord set with appliance inlet to IEC 60320-1	Not transportable apparatus	N/A
THE STATE OF THE S	Transportable musical instruments and amplifiers fitted with detachable cord sets or with means of stowage to protect the cord	Not transportable apparatus	N/A
17	ELECTRICAL CONNECTIONS AND MECHANICA	AL FIXINGS	N/A
17.1	Torque test to table 20:	~	N/A
	- Screws into metal: 5 times	15	N/A
	- Screws into non-metallic material: 10 times	S F	N/A
17.2	Correct introduction into female threads in non-metallic material	THE THE PARTY OF T	N/A
17.3	Cover fixing screws: captive	L.F.	N/A
7,	Non-captive fixing screws: no hazard when replaced by a screw whose length is 10 times its diameter	45	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
17.4	No loosening of conductive parts carrying a current > 0,2 A		N/A
17.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0,2 A	Will The like	N/A
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder	No such screw terminals used	N/A
17.7	Cover fixing devices other than screws have adequate strength and their positioning is unambiguous	Screws used for fixing enclosure	N/A
17.8	Fixing devices for detachable legs or stands provided	No such fixing	N/A
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected	5	N/A
18	Mechanical strength of picture tubes and protection ag	ainst the effects of implosion	N/A
18.1	Picture tube separately approved to IEC 61965:	No picture tubes used	N/A
Th	Picture tube separately approved to 18.2:	The state of the s	N/A
18.2	Non-intrinsically protected tubes tested to 18.2		N/A
19	STABILITY AND MECHANICAL HAZARDS	5	P
49	Mass of the equipment exceeding 7 kg:	<u> </u>	ZYY P
1	Apparatus intended to be fastened in place – suitable instructions	THE THE T	N/A
19.1	Test on a plane, inclined at 10o to the horizontal	A 8	, P
19.2	100 N force applied vertically downwards	Le L	P
19.3	100 N force, or 13% of weight, applied horizontally to point of least stability.	The state of the s	N/A
19.4	Edges or corners not hazardous	No sharp edges	Pill
19.5	Glass surfaces (exc.laminated) with an area exceeding 0,1 m ² or maximum dimension > 450 mm, pass the test of 19.5.1	No glass surface used	N/A
19.6	Wall or ceiling mountings means	E A	ŷР
20	RESISTANCE TO FIRE	A A A	P, F
20.1	Electrical components and mechanical parts	, F	P
Y.	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with	5	N/A

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	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
ļ.	openings not exceeding 1 mm in width	4 6 3	× ·
N. S.	b) Exemption for small components as defined in 20.1	A A A	P
20.1.1	Electrical components meet the requirements of Clause 14 or 20.1.4	See appended table	P
20.1.2	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, not contributing to the spread of fire	Internal wiring working at voltages not exceeding 4 kV	N/A
20.1.3	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC 60707, unless used in a fire enclosure	V-1	P
^	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60707	1544	N/A
20.1.4	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21	See appended table	P
4	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A
ŽŽŽ	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure	THE	N/A
20.2	Fire enclosure	Metal enclosure, no need	N/A
20.2.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1	R. J. H. H.	N/A
20.2.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	THE STATE OF THE S	N/A
20.2.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure		N/A
A	ANNEX A, ADDITIONAL REQUIREMENT PROTECTION AGAINST SPLASHING WATER	S FOR APPARATUS WITH	N/A
A.5	Marking and instructions	, E	N/A
A.5.1	j) Marked with IPX4 (IEC 60529), 5.4.1 a) does not apply	,5	N/A

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7	IEC/EN 60065	The state of the s	
Clause	Requirement – Test	Result – Remark	Verdict
A.10	Insulation requirements		N/A
A.10.2	Splash and humidity treatment	The Fr The	N/A
A.10.2.1	Enclosure provides protection against splashing water	A MA LI	N/A
A.10.2.2	Humidity treatment carried out for 7 days	4	N/A
65	رفي	(S) L L4	4
В	ANNEX B, APPARATUS TO BE CONNECTED NETWORKS	TO THE TELECOMMUNICATION	N/A

Complies with IEC 62151 clause 2 Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard Complies with IEC 62151 clause 4 but with 4.1.2, 4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard Complies with IEC 62151 clause 6 Complies with IEC 62151 clause 6	В	ANNEX B, APPARATUS TO BE CONNECTED TO NETWORKS	O THE TELECOMMUNICATION	N/A
Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard Complies with IEC 62151 clause 4 but with 4.1.2, 4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard Complies with IEC 62151 clause 6 Complies with IEC 62151 clause 7		Complies with IEC 62151 clause 1	Z. Z.	N/A
modified to 2.4.10 of this standard Complies with IEC 62151 clause 4 but with 4.1.2, 4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard Complies with IEC 62151 clause 6 Complies with IEC 62151 clause 7	,	Complies with IEC 62151 clause 2	~ ~	N/A
4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard Complies with IEC 62151 clause 6 Complies with IEC 62151 clause 7	,			N/A
modified in accordance with annex B of this standard Complies with IEC 62151 clause 6 Complies with IEC 62151 clause 7	N. A.	4.1.3 and 4.2.1.2 modified in accordance with annex		N/A
Complies with IEC 62151 clause 7	NA.	modified in accordance with annex B of this	18	N/A
		Complies with IEC 62151 clause 6	\$ 5	N/A
	LES	Complies with IEC 62151 clause 7	3 5 .	N/A
Complies with IEC 62151 annex A, B and C	8 /	Complies with IEC 62151 annex A, B and C	THE THE T	N/A

L	ANNEX L, ADDITIONAL REQUIREMENTS APPARATUS FOR PHOTOGRAPHIC PURPOSES.	FOR ELECTRONIC FLASH	N/A
L. 5	Marking and instructions	F S X	N/A
L5.4	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used	AND LINE	N/A
49	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N/A
L. 7	Heating under normal operating conditions	2 2 2	N/A
L7.1.5 & L11.2.7	Lithium batteries meet permissible temp rise in Table 3, unless comply with 6.2.2.1 or 6.2.2.2 of IEC 60086-4		N/A

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Z) /	(, 3, 4,3,	7, 5	
	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
	,9	,9	4
L. 9	Electric shock hazard under normal operating conditions	A LE LE	N/A
L9.1.1	Terminals to connection to synchroniser not HAZARDOUS LIVE	S. Market Ville	N/A
L9.1.1.1	If possible, flashing is made during the measurements		N/A
L.10	Insulation requirements	S. A.	N/A
L10.3.2	High frequency puls ignition	A ST	N/A
L. 12	Mechanical strength	IN THE STATE OF TH	N/A
L12.1.3	Windows for flash tubes are excluded from the steel ball inpact test	22	N/A
L. 14	Components		N/A
L14.6.6	Mains switch characteristics appropriate to its function under normal conditions	THE SHE	N/A
L. 20	Resistance to fire	1/1/k	N/A
L20.1 c)	Trigger coil for discharge purpose is not considered to be a POTENTIAL IGNITION SOURCE		N/A

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	IEC 60065, GROUP DIFFERENCES (CENELEC common modifications (EN))				
Contents	Add the following annexes: Annex ZA (normative) Other international publications quoted in this standard with the references of the relevant European publications (See the CB Bulletin) Annex ZB (nominative) Special national conditions Annex ZC (informative) A-deviations				
Definition 2.2.Z1 (A11:2008)	Add after the definition 2.2.12 the following new definition: PORTABLE SOUND SYSTEM small battery powered audio equipment: • whose prime purpose is to listen to recorded or broadcasted sound; and • that uses headphones or earphones that can be worn in or on or around the ears; and • that allows the user to walk around NOTE Examples are mini-disc or CD players, MP3 audio players or similar equipment.				
2.2 (A12:2011)	In EN 60065:2002/A11:2008 N/A Delete the definition 2.2.Z1				

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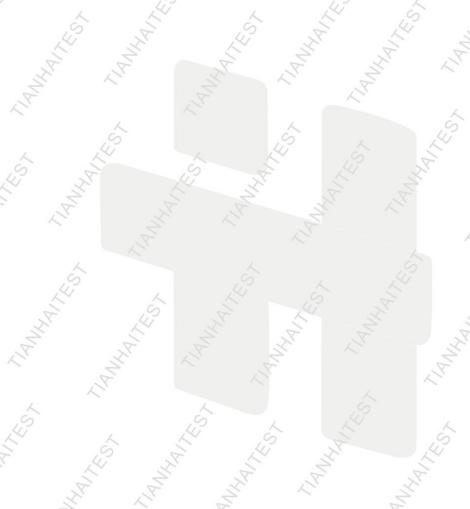


	- 7	4 4	. ~		_
7	3.1	Add the following indent at the end of the list	T. J.	N/A	,
		 Exposure to excessive sound pressures from headphones or earphones 	_	5	
000	44,	NOTE A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment	THE THE WAY	4	1
	W. W.	 Maximum sound pressure level measurement methodology and limit considerations – Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones 	M. I.	TANK!	
	HAITEST	and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	TO THE STATE OF TH	175.87	
. 1	3.1	In EN 60065:2002	The Table	N/A	
	(A12:2011)	Delete the addition of indent regarding sound pressure excessive	A. T.	R	
A	3.Z1	After 3.2 add a new clause 3.Z1:	5	P	,
5	(A2:2010)	To protect against excessive current, short-circuits and earth faults in MAINS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	9 4 9	I'MMA	41.
	THE THE PERSON OF THE PERSON O	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 11 shall be included as parts of the equipment;	THE THE	6	
	AITEST	b) for components in series or parallel with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	THE SERVICE SERVICES	AMHAI TE	
1///		c) it is permitted for equipment supplied via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS, to rely on dedicated over current and	7	4	11
くつ	N. N	short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	THE THE STATE OF T	7 	00
	N. N	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for not via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS the building installation shall be regarded	7	HWEI	
4	4.1.1	Replace the text of the note by: NOTE For ROUTINE TEST reference is made to EN 50514.	Sy The	N/A	1/2
	5.4.1 za) (A11:2008)	Modify indent za) as follows: za) For a PORTABLE SOUND SYSTEM, a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N/A	7

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5.4.1 (A12:2011)	In EN 60065:2002/A1:2006 a 60065;2002/A11:2008	nd EN	T. IN	N/A
(1112.2011)	Delete the modification in indent za)		4	,5
٨.	Add the following clause and annex to the standard and amendments	ne excisting	£ 5	5
3	Zx Protection against excessive sound pressur	re from persor	nal music players	Z Z



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			_
1	Zx.1 General	N/A	1
	This sub-clause specifies requirements for protection	4	
	against excessive sound pressure from	5	
	personal music players that are closely coupled to the	~~	
D	ear. It also specifies requirements for		56
, ,	earphones and headphones intended for use with	. 5	Š
	personal music players.	7	
	A personal music player is a portable equipment for	IF	
	personal use, that:		
	is designed to allow the user to listen to recorded		
	or broadcast sound or video; and	5	
	primarily uses headphones or earphones that can	4	
	be worn in or on or around the ears; and	, P	
	allows the user to walk around while in use.	Z.	3
	NOTE 1 Examples are hand-held or body-worn portable	Z.	
1	CD players, MP3 audio players, mobile phones with		
	MP3 type		4
	features, PDA's or similar equipment.		
0	A personal music player and earphones or headphones	Th	
	intended to be used with personal	F	
	music players shall comply with the requirements of this	7	
	sub-clause.		
	The requirements in this sub-clause are valid for music	4	
	or video mode only.	147	
	The requirements do not apply:	6	
	while the personal music player is connected to	Zy,	
	an external amplifier; or	Z,	
~	while the headphones or earphones are not used.		7
	NOTE 2 An external amplifier is an amplifier which is		1
	not part of the personal music player or the listening	S	
1	device, but which is	V	
	intended to play the music as a standalone music player.	.<	2
	The requirements do not apply to:		
	hearing aid equipment and professional	FY.	
	equipment;	F	
	NOTE 3 Professional equipment is equipment sold	~	
	through special sales channels. All products sold through		
	normal	4	L
	electronics stores are considered not to be professional	5	5
1	equipment.		
-	analogue personal music players (personal music	T.R.	
	players without any kind of digital	171000	
	processing of the sound signal) that are brought to the		
	market before the end of 2015.	,5	
	NOTE 4 This exemption has been allowed because this	14	
			-

| NOTE 4 This exemption has been allowed because this |
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		D 35	Α,
Cont.	Zx.2 Equipment requirements	Y, E	N/A
T.	No safety provision is required for equipment that	~	4
170	complies with the following:	4	15
,	equipment provided as a package (personal music	4 6	2"
,6	player with its listening device), where	5 4 5	5
<u> </u>	the acoustic output LAeq,T is ≤ 85 dBA measured	E E	4
7	while playing the fixed "programme	Zi, Yi,	<u> </u>
	simulation noise" as described in EN 50332-1; and	T.	T
	a personal music player provided with an		
ć	analogue electrical output socket for a listening	40	
4	device, where the electrical output is $\leq 27 \text{ mV}$	5	.5
F	measured as described in EN 50332-2, while	The File	24
74	playing the fixed "programme simulation noise" as	R R	A.
ZT	described in EN 50332-1.	Zr. Y.	7
	NOTE 1 Wherever the term acoustic output is used in	4	1
	this clause, the 30 s A-weighted equivalent sound	<u>^</u>	
,6	pressure level LAeq,T is	4	4
~	meant. See also Zx.5 and Annex Zx.	, F. 13	b A
	All other equipment shall:	St. E.	Z.
V	a) protect the user from unintentional acoustic	The The	T. E.
7,	outputs exceeding those mentioned above; and	E.	
18°	b) have a standard acoustic output level not exceeding		
	those mentioned above, and		,5
	automatically return to an output level not exceeding	K 1	74
,6	those mentioned above when the	JE W	The state of the s
74	power is switched off; and	E E	8
JE.	c) provide a means to actively inform the user of the	Zi, Y	3
5	ncreased sound pressure when the equipment is	T. B.	18
7	operated with an acoustic output exceeding those		4
	mentioned above. Any means used shall be	2	8
4	acknowledged by the user before activating a mode of	5	Ś
5	operation which allows for an acoustic output	The Th	24
, \(\frac{1}{2}\)	exceeding those mentioned above. The	JF JF	J.F.
72	acknowledgement does not need to be repeated more	Z' A.	2
	than once every 20 h of cumulative	7/1	77,
Cont.	listening time; and	4	
6	NOTE 2 Examples of means include visual or audible	49	
4	signals. Action from the user is always required.		5
7	NOTE 3 The 20 h listening time is the accumulative	, The Y	4 3
	listening time, independent how often and how long the	IF IF	F
3	personal music	7	~
F	player has been switched off.	17	
~	d) have a warning as specified in Zx.3; and	5	á
	e) not exceed the following:	4	4
Report No	1) equipment provided as a package (player with).: TH19AR-129S	page	27 of 44
14/	7 7 7		- 22

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen Tel:+86-755-86615100 Fax:+86-755-86615105 http://www.tianhaitest.com



N/A For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an

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acknowledgement as long as the average sound level of

the song is not above the basic limit of 85 dBA.



7	2 2 2	1	Α,	_
A. S.	Zx.3 Warning	F	N/A	Ž
	The warning shall be placed on the equipment, or on the		4	
	packaging, or in the instruction manual and shall consist	,	12	ĺ
4	of the following:	5		
5	the symbol of Figure 1 with a minimum height	1 3		A
7	of 5 mm; and	F	5	-
T	the following wording, or similar:	7	7	ĺ
	Z Z Z		TA	ĺ
	"To prevent possible hearing damage, do not listen at	4		ĺ
5	high volume levels for long periods."	40		ĺ
4	mgn votame levels for long periods.		5	ĺ
R	8 - 8 - 8	The	L	ĺ
7		E	R	ĺ
K	Z \ \ Z \ Z \ \ \ \ \ \ \ \ \ \ \ \ \ \		74.	1
		Ä	A	ĺ
	(3)(3)\	<		ĺ
4)	,	4
4		. 0	5	
4	S A 13 A 14	14	Th.	ĺ
	Z 1 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F	F	ĺ
The	Figure 1 – Warning label (IEC 60417-6044)	TX.	7	ĺ
E.	Alternatively, the entire warning may be given through	T		ĺ
77	the equipment display during use,		4	ĺ
	when the user is asked to acknowledge activation of the		40	ĺ
4	higher level.	-6	7,	ĺ
Cont.	Zx.4 Requirements for listening devices (headphones and earphones)	4	N/A	ĺ
1	Zu Tr Zu Zu Zu	F.	F	ĺ
Z 2	Zx.4.1 Wired listening devices with analogue input	5 4	N/A	
S	With 94 dBA sound pressure output LAeq,T, the input		IN/A	Z
	voltage of the fixed "programme simulation noise"		4	ĺ
	described in EN 50332-2 shall be ≥ 75 mV.	,4	8	ĺ
Z	This requirement is applicable in any mode where the			ċ
o R	headphones can operate (active or	FY		4
7	The second second	F	F	ĺ
Y. B.	passive), including any available setting (for example	1	7	
	built-in volume level control).		TA	
	NOTE The values of 94 dBA – 75 mV correspond with	4		
4	85dBA – 27 mV and 100 dBA – 150 mV.	6		ĺ

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	· A · A · A			_
Z.	Zx.4.2 Wired listening devices with digital input	T. IN	N/A	Ž,
	With any playing device playing the fixed "programme	8	22	
5 3	simulation noise" described in EN 50332-1 (and respecting the digital interface	The state of the s		1
. \(\int_{\infty}\)	standards, where a digital interface standard	The state of the s	7	7
17	exists that specifies the equivalent acoustic level), the	E	E.	İ
	acoustic output LAeq,T of the listening device shall be \le		77	
4	100 dBA.	(5)		
. 43	THE A. L.		6]
E.	This requirement is applicable in any mode where the	, X/	4	l
ZZ,	headphones can operate, including any available setting		, P	
F	(for example built-in volume level control, additional	Tr. V.	Z,	1
	sound feature like	T. T.	(R)	
, ,	equalization, etc.).	4	`	l
<u> </u>	NOTE An avaignly of a wined listening device with	45	,	4
7	NOTE An example of a wired listening device with digital input is a USB headphone.	6 5	6	
4			27/4	ĺ
E.	Zx.4.3 Wireless listening devices	The state of the s	N/A	
77	In wireless mode:		^ '	ĺ
F	with any playing and transmitting device playing			ĺ
~	the fixed programme simulation noise described	5	5	
	in EN 50332-1; and	Let L	4	
4	respecting the wireless transmission standards,	F S	R	
4	where an air interface standard exists that	The Property of the Property o	Tr.	
V	specifies the equivalent acoustic level; and	The state of	7	
\$C \	with volume and sound settings in the listening			B
3	device (for example built-in volume level control,		, 4	
	additional sound feature like equalization, etc.) set to	,6	S	
	the combination of positions that maximize the		V	
	measured acoustic output for the above- mentioned	4 5	_<	Ü
Th.	programme simulation noise, the acoustic output	E Z	A.	
R	LAeq,T of the listening device shall be $\leq 100 \text{ dBA}$.	Zi, Yi,	Zy,	
~	NOTE As second of a minute listening desired	18	(R)	
	NOTE An example of a wireless listening device is a			
4	Bluetooth headphone.	,5		İ
45	Zx.5 Measurement methods	1	N/A	1
	Measurements shall be made in accordance with EN	Li Ji	\$ S	3
4	50332-1 or EN 50332-2 as applicable.	5 3 5	. 2	
The	Unless stated otherwise, the time interval T shall be 30 s.	11, TH,	77	
E.	NOTE Test method for wireless equipment provided	The		
7,	without listening device should be defined.	4	\$	
L		47	477	

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1	. V V			
6.1	Replace the entire subclause in EN 60065:2002 and EN 60065:2002/A1:2006 by:	T. T. R.	N/A	^
(A11:2008)	Ionizing radiation	4	,5	
4	Apparatus including a potential source of ionizing radiation shall be so constructed that personal			
	protection against ionizing radiation is provided under normal operating conditions and under fault	Fig. 12. 12.	7	1
77	conditions.	E	4	
	Compliance is checked by measurement under the following conditions:		7,	
,5	In addition to the normal operating conditions, all			
24	controls adjustable from the outside BY HAND, by any object such as a tool or a coin, and those internal	5	,5	
J.R.	adjustments or pre-sets which are not locked in a reliable	The Fig.	7	
2	manner, are adjusted so as to give maximum radiation	The The	72	
	whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	E	E.	
	NOTE 1 Soldered joints and paint lockings are examples			
	of adequate locking.	5		
2	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.		o H	1
I A HALL	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	The Tarker	THE STATE OF THE S	
	The dose-rate shall not exceed 1µSv/h (0,1 mR/h) taking account of the background level.		45	
25	NOTE 2 These values appear in Directive 96/29/Euratom of 13th May 1996.	The state of the s	ZYR	
E Z	A picture is considered to be intelligible if the following conditions are met:	The Table 1	7	V
	- a scanning amplitude of at least 70 % of the usable screen width;	7 77	4	1
4	- a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator;		S	7
TA	- a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;	THE WAR	3	K
F	- not more than one flashover per 5 min.	The The	The state of the s	
- / ~	¥ / / \			4

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	1	(P) (P) (P)	· A	<u> </u>
V	Z1	Add the following new clause after Clause 20:	L' E	N/A
X	(A11:2008)	Z1 Resistance to candle flame ignition	~	4
	4	A television set shall be so designed that the likelihood of ignition and the spread of fire caused by a candle flame is reduced.		LES Y
1	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NOTE 1 An apparatus with a viewing screen is not regarded to be a television set if it is declared not to be so by the manufacturer.	THE THE LAW THE	X
		This requirement does not apply to the display screen of rear projection TV's.	77.	77
	MITEST	NOTE 2 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.		12
110	7	NOTE 3 The frame around the screen is not exempted from the requirements.	AN IN	ENT'S
1	, A	Wood and WOOD-BASED MATERIAL with a thickness of at least 6 mm is considered to fulfil the V-1 requirement when applying CLC/TS 62441.		
1	1	Compliance is checked according to CLC/TS 62441.		٨.
	18WHAITES	NOTE 4 The term vertical, as used in the first dash of clause 5.2 of CLC/TS 62441, does not mean a perfectly vertical position. It should be interpreted as any surface that can be touched by the flame of a candle of 150 mm height and 20mm diameter while the candle is still touching the supporting surface. A typical candle used in the home is assumed to be 20 mm diameter.	LIAM LAMBER	S HWH
	7537	NOTE 5 It is expected that CLC/TS 62441 will in the future be replaced by a standard, at which time that standard will become applicable, subject to a vote by National Committees at the time.	A STATE OF THE STA	AWHAITE.
1/1/1.	General	Delete note 4. Delete note 4 and note 5. Delete notes 1 and 2.	THE Y	N/A
	4	15.1.1 Delete notes 1 and 2. 15.2 Delete note 2. 16.1 Delete note 1. 16.2 Delete the note.		55
/	MILE	20 Delete note 2. Annex B Replace note 1 by: In the CENELEC special national conditions apply.	countries listed in IEC 62151,	IN
	~	Annex G Annex J.2 Delete the note. Delete the notes of Table J.1. Annex N Add after the introduction: For ROUTINE 50333. (Replaced by EN 50514)	ETEST reference is made to EN	The state of the s
1	General	In IEC 60065:2001/A2	1 14	/ N/A
7/	(A2:2010)	Delete all the "country" notes according to the following I 5.3 Note 5.4.1 Note 20 Note For special national conditions, see Annex ZB.	list:	STATE
	Bibliograph y	Additional EN standards.	É	S
		4)		

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the equipment. Justification:

5.3

(A2:2010)

protected by a 20 A fuse.

Finland, Norway and Sweden

the building installation wiring

connection to protective earth

network TERMINALS and

varustettuun pistorasiaan"

follows:

addition is intended for connection

apparatus must be connected to an earthed MAINS socket-outlet.

In Denmark an existing 13 A socket outlet can be

CLASS I apparatus which is intended for connection to

via a plug or an appliance coupler, or both and in

to other apparatus or a network shall, if safety relies on

or if surge suppressors are connected between the

ACCESSIBLE parts, have a marking stating that the

The marking text in the applicable countries shall be as

In Finland: "Laite on liitettävä suojakoskettimilla

In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"

To the end of the subclause the following is added:

Shenzhen Tian Hai Test Technology Co., Ltd.

ZA	Normative references to international publications P with their corresponding European publications
<u> </u>	
ZB	ANNEX ZB TO EN 60065, SPECIAL NATIONAL CONDITIONS (EN)
2.6.1	DK: The following is added: Certain types of CLASS I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socket-outlets
HA HA	Justification: Heavy Current Regulations, Section 107.
3.Z1	Denmark N/A
(A2:2010)	Add to the end of the subclause
	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for

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5.4	Finland, Norway and Sweden	T, 'R	N/A
(A11:2008)	To the end of 5.4 the following is added:	^	4
S AMARIAN S	CLASS I apparatus which is intended for connection to the building installation wiring via a plug or an appliance coupler, or both and in addition is intended for connection to other apparatus or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network TERMINALS and ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an MAINS socket-outlet with protective earth.	STINE WAR	ST THE STATE OF TH
SHANNA .	The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	5	MHAITEST

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	N. C.	SHCHZ	11011 117	111 11 11 11	1050 1	cenne	nogy Co	J., L.tu.	eX.
	5.4.1	Norway and Sv	weden	,	73,	7,	, F	N/A	
7	(A11:2008)	To the end of following is ad		compliance	statement) the	4	K.	,5	^
4	S LIMINE	not earthed at normally no e building. The	equipotential b refore the pr lation need to l	f the building onding syste otective ear be isolated from	g and there is m within the thing of the	SHIP.	THE LANGE THE PARTY OF THE PART		AWHAY
	100	It is however a to the equipm cable with gal- e.g. a retailer.	ent by an ada	pter or an ir	nterconnection	2 2 2			5
	A HA	The user manuinformation is respectively, equipment is in	depending on	and Swed in what	ish language	AMHA/7	THAM	A. H.	
07	12/2	building instal		the mains a connection distribution	connection or to protective system using	1.	To the second se	29	4
	W. H.	hazard. Conne therefore to b electrical isola	ction to a cab e provided th	le distributio rough a dev certain free	n system has ice providing	TANK!	I AND	E ZA	Z.
		NOTE In Nor cable distribut isolator shall p The insulation kV r.m.s., 50 H	ion systems, a rovide electrica shall withstand	nd in Swede al insulation l l a dielectric s	en, a galvanic below 5 MHz.	HALITEST	25	THE THE PERSON OF THE PERSON O	人の
	Z Z	Translation to accepted in No		e Swedish tex	kt will also be	V By	ZZZ	1 No.	
		"Utstyr som e og/eller via an kabel-TV nett, skal det ved t installeres en	net jordtilkople kan forårsake b tilkopling av u	et utstyr – og orannfare. For utstyret til ka	er tilkoplet et å unngå dette bel-TV nettet	195	77	254	7
)	TAN TAN	kabel-TV nette Translation to S	t."	S. S. S. S. S. S. S. S. S. S. S. S. S. S	ZIXIV.			1	1
	The state of the s		om är kopplad eller via annan	utrustning oc	h samtidigt är	THE THE PERSON NAMED IN COLUMN TO SERVICE AND SERVICE	Y	THE STATE OF THE S	7.
	5	Főr att undvika	detta skall vid	anslutning a	v utrustningen	9	3	J.	

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till kabel-TV nät galvanisk isolator finnas mellan

utrustningen och kabel-TV nätet."



		-
N/A		,
5,		200
	X	17 7
N/A	0	
77		
THE SELLEN		
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(7)
Zh	3	
TIR		
N. S.		
× .		
4	7	1 12
N/A	2	11111
	N/A	N/A

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	V			_
15.1.1	NO: Mains socket-outlets mounted on CLASS II apparatus shall comply with the specifications given in		N/A	4
	CEE Publ. 7 as far as a applicable, with the following	4	,6	
	amendments:	£ 1	4	
5 5	§ 8 Dimensions	5 6 3		
4 7	a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet		5	1
F	I. F F	34, 74	3	
	Mains sockel-cutlets mounted on CLASS II apparatus shall comply with the specifications given in CEE Publ. 7 as fas as a Applicable, with the following amendments: § 8 Dimensions a 2,5 A 250 V two pole sockel-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.	T. T.	TA	
4	STANDARD SHEET I	,5		
4	2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II		5	
TE	27,5 min. R 5 max.	The Man	1	
2	15+0.5-0	The The	77	l,
7	45 \$	E.	E.	
	39 +1 -1,5		N .	
1	Dimensions in rum	5		ĺ
9	Other dimensions according to CEE Publication 7 Standard Sheet I	4	< /	<
Ś	"Portable Single-Way Socket-Outlets".	D Z L	2 8	
24		3 5	= = = = = = = = = = = = = = = = = = = =	
F	§ 24 Mechanical strength a 2,5 A, 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested.	The The	7/1	
7	§ 24 Mechanical strength	, F	8	
12	A 2,5 A 250 V socket-outlets for CLASS II electronic	1	4	
	apparatus are tested as specified in 12.1.3 of EN 60065.	199	15	
- 2	Also the protecting rim shall be tested	E 6	7	
,5	Justification: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).	The Table	72	
		<u> </u>	Z'.	
15.1.1	UK: Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket		N/A	
3	conforming to BS 1363 by means of that flexible cable		,	1
	or cord and plug shall be fitted with a "standard plug" in	_	4	ì
ć	accordance with Statutory Instrument 1768: 1994: The		9	
4	Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those Regulations.	5 5		C
R	NOTE "Standard plug" is defined in SI 1768:1994 and	The The		4
7	essentially means an approved plug conforming to BS		T.	
TA	1363 or an approved conversion plug.	Z. Y.	= = = = = = = = = = = = = = = = = = = =	
	Justification: SI 1768: 1994	T. T.	T. A.	
J.2	NO: After Table J.1 the following is added:	4	N/A	
6	In Norway, due to the IT power distribution system	5		
4	used, the a.c. MAINS supply voltage is considered to be	5	5	1
5	equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault.	W XX	4 3	X
	Justification: Based on a use in Norway of an IT power	R R	F	
The	distribution system where the neutral is not provided.	7. 7.	1	
		. V	•	4

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ZC	ANNEX ZC TO EN 60065, A-DEVIATIONS (EN)	T. T.	N/A
5.1	IT: Additional markings on the outside of the TV receiver in Italian language	5	N/A
Κ ο ,	IT:User instructions in Italian language including a conformity declaration		N/A
7	IT: Certification number on the back cover	Z Z Z	N/A
6.1	DE: The following requirement applies: For the operation of any cathode ray tube intended for		N/A
A/7ESY	the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	5 1	154
H	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	The The	THE WAR
14	NOTE Contact address:	4	
	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de		
14	SE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.	IN AND	N/A
N. N. N. N. N. N. N. N. N. N. N. N. N. N	Justification: Ordinance (1990:944) on Prohibition in Connection with handling. Importation and exportation of Chemical Products (Certain Cases)	^ -	5

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5.1	TABLE:	Input test	- V			X			P
		nsumption in the onal switch (W)		by mode of		4	_		_
Cond.	Un (V)	Freq. (Hz)	In (A)	Pn (W)	Uout(V)	Pout (W)	Operation	ng cond	litions
- 2	F	4 3	Z	4	-78	\$	No	rmal op	peration
7.1	7.1 TABLE: temperature rise measurements			nents	R	ZZ	/	71	P
^	Loudspeaker impedance (Ω) :				~	8Ω			_
	Several loudspeaker systems :					/		5	
4	Markir	ng of loudspeaker	r terminals	_	4	51	8		
Monitore	d point:				dT (K) Lin			nit dT (K)	
						100V			
Internal w	vire				7.3			70	
Inductor					45.5			85	
Surface of	fenclosure				4.9			60	
Ambient						27.5°C			
	Winding to	emperature rise n	neasurement	ts	F	E.		F	, F
ZY	Ambient t	emperature t1 °C)	:		~ <u>-</u>		_	_
N.	Ambient to	emperature t2 °C)	:		7		_	_
Temperature rise dT of winding: $dT = (R2 - R1) \times (234.5 + t1) - (t2 - t1)$ $R1$			$R_1(\Omega)$	$R_2(\Omega)$	dT (K)		nit dT K)	Insulation class	
	P.Z.	- 5	Z.	175	45		N. J.	,	R
Note(s):			NE TO SERVICE		R	2			

7.2 TABLE: soft	ening temperature of thermopla	stics	N/A
Temperature T of part	T - normal con-ditions (°C)	T - fault condi-tions (°C)	Min T softening (°C)
- 4	-18	-17	- 72
		_ -	

10.3	TABLE: insulation resistance measurements	45	J.F.	N/A
Insulation re	esistance R between:		R (MΩ)	Required R (MΩ)
Th.	7, 8	, R		£ -
TA			7	

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1111	10.3	TABLE: electric streng	gth measurements	P. S.	7	T.R.	N/A
	Test voltage	applied between:			Test v	oltage (V)	Breakdown
1		Ÿ	- 4	4	2	- 6	120
0	R	45 -	- R	45	K	4	37,

5	Z. F. Z.	4	E.	T.E.	B	
11.2	TABLE: summary of fault condition tests	2, 7	7	N. P.		P F
	Voltage (V) 0,9 or 1,1 times rated voltage	:	2	/	6	_
4	Frequency (Hz)		55	2	Lu Lu	
X	Ambient temperature (°C)			27.5	ZH	_
Fault o	condition:					
Short-	circuit speaker	1	R			F
No.	Monitored point: Under fault conditions specified below		dT (K)		Limit d	T (K)
1	Internal wire	5	9.5	R	70	9
2	Inductor	,	57.9	E S	150	0 8
3 💉	Surface of enclosure	T. S.	6.5	~	65	7
Fault o	condition:					
100%	Max. non-clipped output power			43	9	2
No.	Monitored point: Under fault conditions specified below		dT (K)		Limit d	T (K)
1	Internal wire	ZZ	10.9		70	T
2	Inductor	12	59.5	18	150	0
3	Surface of enclosure		6.9		65	5

~~	9	_	~~	150	T		60	F	
13.3 & 13.4	TABLES:	clearances a	and creepage d	istances	7	1	~	7	N/A
Rated supply	voltage:	- 8	Pollution	degree:		М	aterial Gro	oup: -	- 37
2 N force for i	nternal com	iponents app	olied:			F			R
30 N force on	outside of c	onductive e	nclosure applie	ed:			7		
Location			Operatin	g Voltage	Clearan	ce (mm)	Creepag	ge (mm)	CTI
			V peak	V rms	Min	Actual	Min	Actual	-
43	, 5	2	A CO	ZX	2		5,	~	
Notes: "Min"	= minimum	required. "	Actual " = Actu	ual dimensio	ns measure	ed.		T	R

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14	TABLE: list of critical c	components and m	naterials		P	
Component	Manufacturer/ trademark	Type / Model Technical Data		Standard	Approval /Reference	
Enclosure	5	Z	Wood material, Min 6,0 mm	- 54	A.	
External / Internal wires	FOSHAN NANPING ELECTRICAL WIRE FTY	1007, 1015	22AWG, 300V, 105°C	UL 758	A TA	
PCB	Various	Various	V-1 or better, 105°C	UL 796	ÚL	
Audio amplifier Transformer	5 1	AS-20W	See below	IEC/EN 60065	Tested with appliance	
- Magnet wire	QING YUAN SHI CHANGFA ENAMELLED WIRES MATERIAL OF COPPER CO LTD	2UEW QA-1	130°C	IEC/EN 60065	UL Tested with appliance	
- Bobbin	EI Dupont de Nemours Co., Inc.	Nylon 101L	Min.0,71 mm, 130°C	IEC/EN 60065	UL Tested with appliance	
Speaker Supplementary in	- 17	YI <u>A.</u>	8 ohm	IEC/EN 60065	UL Tested with appliance	

Supplementary information:

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¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.



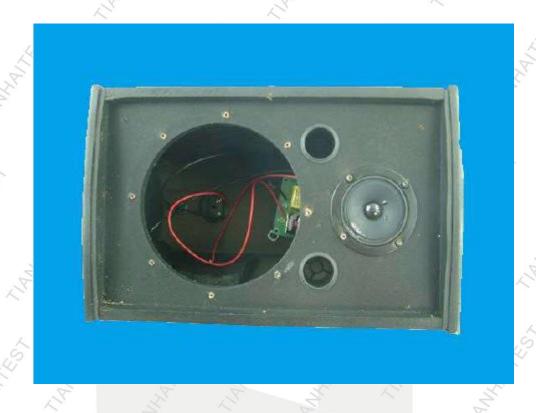
ANNEX A- EUT PHOTOGRAPHS





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		_		
Att	achment for	TH19AR-12	29 S	5
LA-2180	LA-2108	LA-1518	LA-205M	LA-112M
LA-118H	TS-8A	TS-8	TS-8W	TS-8AW
TS-9W	TS-10W	TS-10AW	TS-12W	TS-12H
TS-15H	TS-152	TS-112	TS-112H	TS-122
TS-215	TS-112B	TS-008	TS-010	TS-012
TS-153	TS-212	TS-182	TS-118	TS-218
LA-1200P	LA-2850P	LA-1500P	LA-2650	LA-2850
LA-1500	LA-P01	TS-10	TS-10A	TS-12
TS-29A	TS-29B	TS-29C	T-205AR	T-208AR
T-265R	T-582R	LA-1180	LA-1800P	LA-2100
T-250BM	T-2600	TS-08M	TS-10M	TS-12A03
TS-15A03	TS-3H	TS-3	TS-4A03	TS-2A03
TS-606A	TS-606M	TS-608	TS-608A	TS-608M
TS-612	TS-612F	TS-615	TS-615S	TS-618S
TS-812	TS-815	TS-108R	TS-818S	TS-828S
TS-08PG	TS-08PQ	TS-15PQ	TS-10PG	TS-10PQ
TS-12PQ	TS-15PG	T-210D	LA-2100P	LA-2180P
LA-1180P	T-220B	LA-2120P	T-250H	LA-2A18P
LA-2A6P	TS-610T	LA-2A10P	LA-2100H	LA-2A20P
LA-2A8P	TS-615T	LA-2A12P	15	N. S.
	LA-2180 LA-118H TS-9W TS-15H TS-215 TS-153 LA-1200P LA-1500 TS-29A T-265R T-250BM TS-15A03 TS-606A TS-612 TS-812 TS-08PG TS-12PQ LA-1180P LA-2A6P	LA-2180 LA-2108 LA-118H TS-8A TS-9W TS-10W TS-15H TS-152 TS-215 TS-112B TS-153 TS-212 LA-1200P LA-2850P LA-1500 LA-P01 TS-29A TS-29B T-265R T-582R T-250BM T-2600 TS-15A03 TS-3H TS-606A TS-606M TS-612 TS-612F TS-812 TS-815 TS-08PG TS-08PQ TS-12PQ TS-15PG LA-1180P T-220B LA-2A6P TS-610T	LA-2180 LA-2108 LA-1518 LA-118H TS-8A TS-8 TS-9W TS-10W TS-10AW TS-15H TS-152 TS-112 TS-215 TS-112B TS-008 TS-153 TS-212 TS-182 LA-1200P LA-2850P LA-1500P LA-1500 LA-P01 TS-10 TS-29A TS-29B TS-29C T-265R T-582R LA-1180 T-250BM T-2600 TS-08M TS-15A03 TS-3H TS-3 TS-606A TS-606M TS-608 TS-612 TS-612F TS-615 TS-812 TS-815 TS-108R TS-08PG TS-08PQ TS-15PQ TS-12PQ TS-15PG T-210D LA-1180P T-220B LA-2120P LA-2A6P TS-610T LA-2A10P	LA-118H TS-8A TS-8 TS-8W TS-9W TS-10W TS-10AW TS-12W TS-15H TS-152 TS-112 TS-112H TS-215 TS-112B TS-008 TS-010 TS-153 TS-212 TS-182 TS-118 LA-1200P LA-2850P LA-1500P LA-2650 LA-1500 LA-P01 TS-10 TS-10A TS-29A TS-29B TS-29C T-205AR T-265R T-582R LA-1180 LA-1800P T-250BM T-2600 TS-08M TS-10M TS-15A03 TS-3H TS-3 TS-4A03 TS-606A TS-606M TS-608 TS-608A TS-612 TS-612F TS-615 TS-615S TS-812 TS-815 TS-108R TS-818S TS-08PG TS-08PQ TS-15PQ TS-10PG TS-12PQ TS-15PQ TS-20DH LA-2100P LA-1180P T-220B LA-2120P T-250H LA-2A10P LA-2100H

*****END OF THE REPORT****

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