#### 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

May 25, 2019

This Report Concerr	ns: Equipment Type:
⊠ Original Report	Wall Mount Speaker
Test Engineer:	Eric/ EV.C
Report Number:	TH19ER-817S
Test Date: Reviewed By:	January 18-25, 2019  Prince /
Approved By:	Prince / Pri
Prepared By:	Shenzhen Tian Hai Test Technology Co., Ltd.  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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#### TEST REPORT

IEC 60065: 2014

#### &EN 60065:2014/A11:2017

Audio, video and similar electronic apparatus- Safety requirements

Report Reference No......TH19ER-817S

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

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

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

Date of issue...... May 25, 2019

Testing Laboratory Name...... Shenzhen Tian Hai Test Technology Col, 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.

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

China

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

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

China

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

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

China

Test specification

Standard...... EN 60065: 2014/A11:2017/ IEC 60065: 2014

Test procedure ...... CE-LVD

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

Test item description.....: Wall Mount Speaker

Trade mark.....

HC

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

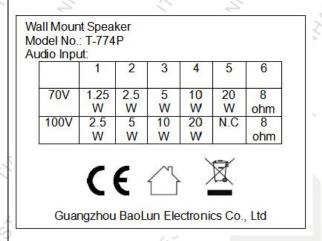
Rating(s)..... See marking plate.

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#### Copy of marking plate

(use model T-774P as an example. The marking label of other models are similar except for model names.)



#### 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:

- 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

Supply Not directly connected to the mains

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

Date(s) of performance of tests...... January 18~25, 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:

- 1. These models are Wall Mount Speaker.
- 2. These models are the same in electrical circuit, construction, critical components, etc.
- 3. These models are similar in appearance and dimensions.
- 4. Model T-774P was selected to do all the tests.

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	IEC/EN 60065		4
Clause	Requirement – Test	Result – Remark	Verdict
3	GENERAL REQUIREMENTS	THE STATE OF THE S	
T.B.	Safety class of the apparatus:	Not classified.	N/A
4	GENERAL CONDITIONS OF TESTS	7,4	P
4.1.4	Ventilation instructions require the use of the test box	No The appliance positioned in accordance with the instructions for use provided by the manufacturer.	HAMITES
5	MARKING	The The	Р
	Comprehensible and easily discernible	No S	Р
,	Permanent durability against water and petroleum spirit	No E	P
5.1	Identification and supply ratings	E B K	P
FIL	a) Identification, maker :	Guangzhou Baolun Electronic Co., Ltd.	Р
~	b) Model number or type reference :	T-774P	B
1	c) Class II symbol if applicable :	5 5	N/A
43	d) Nature of supply :	~ 2 5	P
XF.	e) Rated supply voltage :	See marking plate.	Р
	f) Mains frequency if safety dependant :	T <sub>A</sub>	N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use:		N/A
178	Measured current or power consumption :		N/A
R	Deviation % (max 10%) :	The Tile	N/A
7-	h) Rated current or power consumption for apparat-us intended for connection to an a.c. mains supply :	See marking plate.	N/A
5	Measured current or power consumption :	See marking plate.	N/A
,	Measured current or power consumption for Television set :	Not Television set	N/A
The	Deviation % (max 10%) :	See appended table	P
5.2	Terminal	, , , , ,	N/A
	a) Earth terminal	,6	N/A

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77,	IEC/EN 60065	The state of the s	
Clause	Requirement – Test	Result – Remark	Verdict
	b) Hazardous live terminals	4 5	N/A
4 3	c) Markings on supply output terminals	The Property of	N/A
5.3	Caution marking	No such part	N/A
	a) Use of triangle with exclamation mark		N/A
5	b) marking on loudspeaker grille, IEC 60417-5036		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.	HT P
<u>ر</u> د	b) Hazardous live terminals, instructions for wiring	No hazardous terminal	N/A
	c) Instructions for replacing lithium battery	No battery.	N/A
	d) Class I earth connection warning	E B	N/A
ZZZ	e) Instructions for multimedia system connection	, E	Р
T. T.	f) Special stability warning for attachment of the apparatus to the floor/wall	5	N/A
4	g) Warning: battery exposure to heat	\$ 5	N/A
4	h) Warning: protective film on CRT face	3 4 ;	N/A
5.4.2	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	The The The	N/A
	c) Instructions for permanently connected equipment		N/A
· · ·	Marking, signal lamps or similar for completely disconnection from the mains		N/A
6	HAZARDOUS RADIATION	HIP LIFE	N/A
6.1	Ionizing radiation <36 pA/kg (0,5 mR/h)	No ionizing radiation inside the equipment	N/A
5	Ionizing radiation under fault condition	L 2	N/A
6.2	Laser radiation, emission limits to IEC 60825-1:200:	No laser radiation inside the equipment	N/A
FZ	Emission limits under fault conditions:		N/A

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	IEC/EN 60065	L.T.	
Clause	Requirement – Test	Result – Remark	Verdict
<u></u>	HEATING UNDER NORMAL OPERATING COND	DITIONS	Р
7.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	See appended table	P
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
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	HT P
7.1.5	Parts not subject to a limit under 7.1.1 to 7.1.4	See appended table	Р
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
3	CONSTRUCTIONAL REQUIREMENTS WITH RI	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	A A	N/A
3.4	No risk of electric shock following the removal of a cover which can be removed by hand	The state of the s	N/A
3.5	Class I equipment	6	N/A
_	Basic insulation between hazardous live parts and earthed accessible parts	5 5	N/A
ZH	Resistors bridging basic insulation complying with 14.1 a)	A A A	N/A
72	Capacitors bridging basic insulation complying with 14.2.1 a)	TAN TO THE PARTY OF THE PARTY O	N/A
	Protective earthing terminal		N/A
3.6	Class II equipment and Class II constructions within Class I equipment	5	N/A
	Reinforced or double insulation between hazardous live parts and accessible parts	Z Z Z	N/A
Z	Components bridging reinforced or double insulation complying with 14.1 a) or 14.3		N/A
7/1	Basic insulation bridged by components	No such components	N/A

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	IEC/EN 60065	V. T. K.	
Clause	Requirement – Test	Result – Remark	Verdict
<u>ر</u>	Basic and supplementary insulation each being bridged by a capacitor complying with 14.2.1a)	No such components.	N/A
I.B.	Reinforced or double insulation being bridged with 2 capacitors in series complying with 14.2.1 a)	No such components.	N/A
,	Reinforced or double insulation being bridged with a single capacitor complying with 14.2.1 b)	No such components.	N/A
3.7	This clause is Void	9 1	N/A
3.8	Basic or supplementary insulation >0,4mm (mm):		N/A
7	Reinforced insulation >0,4mm (mm):	The Ville	N/A
	Thin sheet insulation (excluding non-separable thin sheet insulation. See 8.22)	The state of the s	N/A
	Basic or supplementary insulation, at least two layers, each meeting 10.3		N/A
	Basic or supplementary insulation, three layers any two of which meet 10.3		N/A
ZHE	Reinforced insulation, two layers each of which meet 10.3	The same of the sa	N/A
Th	Reinforced insulation, three layers any two which meet 10.3	.5	N/A
3.9	Adequate insulation between internal hazardous live conductors and accessible parts	5	N/A
Z Z	Adequate insulation between internal hazardous live parts and conductors connected to accessible parts	THE THE I	N/A
3.10	Double insulation between conductors connected to the mains and accessible parts.	7	N/A
	Double insulation between internal hazardous live parts and conductors connected to accessible parts.		N/A
3.11	Detaching of wires	A A	N/A
TA	No undue reduction of creepages or clearance distances if wires become detached	A CONTRACTOR OF THE CONTRACTOR	N/A
	Vibration test carried out :	4	N/A
3.13	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20N for 10s)	5 4	N/A
3.14	Adequate fastening of covers (pull test 50N for 10s)	£ 3 5	N/A
	No wiels of alexander to the insulation of internal		N/A
3.15	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges	· F	IN/A

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	IEC/EN 60065	, Th	
Clause	Requirement – Test	Result – Remark	Verdict
8.17	Insulated winding wire without additional interleaved insulation		N/A
8.18	Endurance test as required by 8.17	The Part of the	N/A
8.19	Disconnection from the mains	The state of the s	N/A
8.19.1	Disconnect device	, ^	N/A
2	All-pole switch or circuit breaker with >3mm contact separation		N/A
8.19.2	Mains switch ON indication		N/A
8.20	Switch not fitted in the mains cord	The The	N/A
8.21	Bridging components comply with clause 14	7, 7,	N/A
8.22	Non-separable thin sheet material	554	N/A
9	ELECTRIC SHOCK HAZARD UNDER NORMAL	OPERATING CONDITIONS	Pyg
9.1	Testing on the outside	F F A	P
9.1.1	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation	No such high voltage	N/A
9.1.1.1	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)	P
5	b) Touch current measured from terminal devices using the network in annex D :	See appended table	N/A
	c) Discharge not exceeding 45µC	(5)	Р
	d) Energy of discharge not exceeding 350mJ	5 5	N/A
9.1.1.2	Test with test finger and test probe	No live parts can be touched	N/A
9.1.2	No hazardous live shafts of knobs, handles or levers	Not directly connected to the mains	N/A
9.1.3	Ventilation holes and other holes tested by means of 4mm x 100mm test pin	No hazardous live parts became accessible.	N/A
9.1.4	Terminal devices tested with 1mm x 20mm test pin (10N); test probe D of IEC 61032	See above.	N/A
6	Terminal devices tested with 1mm x 100mm straight wire (1N); test probe D of IEC 61032	A A A	N/A
9.1.5	Pre-set controls tested with 2.5mm x 100mm test pin (10N); test probe C of IEC 61032	No pre-set controls	N/A
9.1.6	No shock hazard due to stored charge on withdrawal of the mains plug; voltage (V) after	No such parts	N/A

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Clause	IEC/EN 60065		
	Requirement – Test	Result – Remark	Verdict
	2 s.	8 1	4
5	If C is not greater than 0,1 µF no test needed	F Li E	N/A
9.1.7	Resistance to external forces	AT HE IN	N/A
1	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
LE	c) 30 mm diameter test tool for 5 s (100 or 250 N):		N/A
9.2	No hazard after removing a cover by hand	F Z	N/A
10	INSULATION REQUIREMENTS	The state of the s	N/A
10.1	Insulation resistance (M $\Omega$ ) at least 2 M $\Omega$ min. after surge test for basic and 4 M $\Omega$ min. for reinforced insulation :	No insulation requirements.	N/A
10.2	Humidity treatment 48 h or 120 h :	The state of the s	N/A
10.3	Insulation resistance and dielectric strength between mains teminals	See appended table	N/A
TIN	Insulation Resistance and dielectric strength across BASIC or SUPPLEMENTARY insulation (Class 1)	See appended table	N/A
	Insulation resistance and dielectric strength across REINFORCED insulation (Class II)	See appended table	N/A
11/4/	FAULT CONDITIONS		P
11.1	No shock hazard under fault condition	No shock hazard.	P
ř. 1. 1			Г
11.2	Heating under fault condition	No hazard.	Р
	Heating under fault condition  No hazard from softening solder	No hazard.  No solder softened during the test.	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No solder softened during the	P
	No hazard from softening solder	No solder softened during the test.	P
11.2	No hazard from softening solder  Flames extinguish within 10 seconds  Soldered terminations not used as protective	No solder softened during the test.	P P
11.2	No hazard from softening solder  Flames extinguish within 10 seconds  Soldered terminations not used as protective mechanism	No solder softened during the test.  No flames.	P P
	No hazard from softening solder  Flames extinguish within 10 seconds  Soldered terminations not used as protective mechanism  Measurement of temperature rises	No solder softened during the test.  No flames.  See appended table	P P P
11.2.1	No hazard from softening solder  Flames extinguish within 10 seconds  Soldered terminations not used as protective mechanism  Measurement of temperature rises  Temperature rise of accessible parts  Temperature rise of parts, other than windings and printed boards, providing electrical	No solder softened during the test.  No flames.  See appended table  See appended table	P P P P
11.2.1 11.2.2 11.2.3	No hazard from softening solder  Flames extinguish within 10 seconds  Soldered terminations not used as protective mechanism  Measurement of temperature rises  Temperature rise of accessible parts  Temperature rise of parts, other than windings and printed boards, providing electrical insulation  Temperature rise of parts acting as a support or	No solder softened during the test.  No flames.  See appended table  See appended table	P P P P P

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2	IEC/EN 60065	T. R.	
Clause	Requirement – Test	Result – Remark	Verdict
5	exceed the limits of table 3 by max. 100 K for max. 5 min		4
NAN I	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
4	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 <sup>2</sup> :	Within limit	N/A
NHW THE	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
X.	Meets all the special conditions if conductors on printed circuit boards are interrupted	Within limit	N/A
	Class I protective earthing maintained	5	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
12	MECHANICAL STRENGTH	A THE	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	\$ 15	N/A
L	Steel ball test		N/A
12.1.4	Drop test for portable apparatus where mass < 7 kg	T. A. C.	N/A
12.1.5	Thermoplastic enclosures strain relief test		N/A
12.2	Fixing of knobs, push buttons, keys and levers	H L L	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
2.5	Antenna coaxial sockets providing isolation	No antenna sockets	N/A
2.6	Telescoping or rod antennas construction	No antenna used	N/A
12.6.1	Telescoping or rod antennas securement	No antenna used	N/A
3	CLEARANCE AND CREEPAGE DISTANCES	the state of	N/A
13.1	Clearances in accordance with 13.3	St. Th. The	N/A
N. P.	Creepage distances in accordance with 13.4	778	N/A
13.2	Determination of operating voltage	<u> </u>	N/A

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7	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
13.3	Clearances	Le jo	N/A
13.3.1	General	The Property of the Property o	N/A
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	A THE TOTAL	N/A
13.3.3	Circuits not conductively connected to the mains comply with table 10	5	N/A
13.3.4	Measurement of transient voltages	4 4	N/A
13.4	Creepage distances	A A	N/A
X	Creepage distances greater than table 11 minima	IN 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		N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)		N/A
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	F F F F F F F F F F F F F F F F F F F	N/A
23	Conductive parts along reliably cemented joints comply with 8.8	The state of the s	N/A
EN X	Temperature cycle test and dielectric strength test	The Thin Y	N/A
	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety		N/A
13.7	Enclosed, enveloped or hermetically sealed parts: not conductively connected to the mains: clearances and creepage distances as in table 12	SHAM WANTED	N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8	T. R.	N/A
14	COMPONENTS	5	Р
14.1	Resistors	Not such resistors used	N/A
	a) Resistors between hazardous live parts and accessible metal parts	A A A	N/A
ZH	b) Resistors, other than between hazardous live parts and accessible parts		N/A
7/1	Resistors separately approved	4	N/A 🗸

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7,	IEC/EN 60065	L' K	
Clause	Requirement – Test	Result – Remark	Verdict
14.2	Capacitors and RC units		N/A
	Capacitors separately approved	The Property of	N/A
14.2.1	Y capacitors tested to IEC 60384-14:2005:	No such parts	N/A
14.2.2	X capacitors tested to IEC 60384-14:2005:	No such parts	N/A
14.2.3	Capacitors operating at mains frequency but not connected to the mains: tests for X2	No such capacitors	N/A
14.2.5	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 THE	N/A
	Capacitors with volume exceeding 1750 mm³, mounted closer to a potential ignition source than table 5 permits: compliance with IEC 60384-1, 4.38 category B or better:	THE STATE OF THE S	N/A
	Shielded by a barrier acc. to 20.1.4/ table 21 or metal		N/A
14.3	Inductors and windings	Audio amplifier transformer only applied.	N/A
NA.	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.1.4	TA	N/A
14.3.1	Transformers and inductors marked with manufacturer's name and type:	4	N/A
45	Transformers and inductors separately approved	The Last	N/A
14.3.2	General	The The The	N/A
	Insulation material complies with clause 20.1.4	T. T.	N/A
14.3.3	Constructional requirements	6	N/A
14.3.3.1	Clearances and creepage distances comply with clause 13	£ 5 £	N/A
14.3.3.2	Transformers meet the constructional requirements	A A	N/A
14.3.4	Separation between windings	F	N/A
14.3.4.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)	2	N/A
V	Coil formers and partition walls > 0,4 mm	19 R 19	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	THE THE SHE	N/A
14.3.4.3	Separating transformers with at least basic insulation	No separating transformers	N/A
		65	6

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
14.3.5	Insulation between HAZARDOUS LIVE parts and ACCESSIBLE parts		N/A
14.3.5.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)	A. A. L.	N/A
	Coil formers and partition walls > 0,4 mm	~	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	LE TON THE STATE OF THE STATE O	N/A
₹	Winding wires connected to protective earth have adequate current-carrying capacity	N. S.	N/A
14.4	High voltage components	No such components	N/A
	High-voltage components and assemblies: U > 4 kV (peak) separately approved	5 5	N/A
4	Component meets category V-1 of IEC 60695-11-10		N/A
14.4.1	High voltage transformers and multipliers tested as part of the submission	TIN	N/A
14.4.2	High voltage assemblies and other parts tested as part of the submission	5	N/A
14.5	Protective devices	£ 15	N/A
Zű.	Protective devices used within their ratings		N/A
X X	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened	THE RESERVE TO THE PERSON OF T	N/A
14.5.1.1	a) Thermal cut-outs separately approved	49	N/A
A.	b) Thermal cut-outs tested as part of the submission	F LE M	N/A
14.5.1.2	a) Thermal links separately approved	A A	N/A
77	b) Thermal links tested as part of the submission	, F	N/A
14.5.1.3	Thermal devices re-settable by soldering	, L	N/A
4.5.2.1	Fuse-links in the mains circuit according to IEC 60127		N/A
14.5.2.2	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	The The	N/A
4.5.2.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool:	YE	N/A
14.5.3	PTC thermistors comply with IEC 60730-1:2007	No PTC thermistors used	N/A

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	IEC/EN 60065	LIT	
Clause	Requirement – Test	Result – Remark	Verdict
<u> </u>	PTC devices (15 W) category V-1 or better	No PTC devices used	N/A
14.5.4	Circuit protectors have adequate breaking capacity and their position is correctly marked	No circuit protectors used	N/A
14.6	Switches	The state of the s	N/A
14.6.1 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	To SHINK TO THE TO SHINK THE TO SHINK TO SHINK THE SHINK THE TO SHINK THE SH	N/A
14.6.1 b)	Tested in the apparatus:	72 73	N/A
	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		N/A
The state of the s	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	The state of the s	N/A
THE	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	50	N/A
14.6.2	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	THE THE TANK	N/A
14.6.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use		N/A
14.6.4	Switch tested to 14.6.1 b) has adequate dielectric strength	1 2 X	N/A
14.6.5	Mains switch controlling mains socket outlets additional tests to IEC 60058-1	THE TANK	N/A
7,	Socket outlet current marking correct	N. S.	N/A
14.7	Safety interlocks	No safety interlocks used	N/A
5	Safety interlocks to 2.8 of IEC 60950-1	2 2	N/A
14.8	Voltage setting devices and the like	Li A Li	N/A
JR	Voltage setting device not likely to be changed accidentally	E THE THE	N/A
14.9	Motors	No motors.	N/A
14.9.1	Endurance test on motors	.6	N/A

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
4	Motor start test	4 5	N/A
9	Dielectric strength test	H H ZH	N/A
14.9.2	Not adversely affected by oil or grease etc.	E Zin Vin	N/A
14.9.3	Protection against moving parts		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	TO THE WAY	N/A
14.10	Batteries	No batteries used	N/A
14.10.1	Batteries mounted with no risk of accumulation of flammable gases	Ta Ta	N/A
14.10.2	No possibility of recharging non-rechargeable batteries	5 5	N/A
14.10.3	Recharging currents and times within manufacturers limits		N/A
ZH.	Lithium batteries discharge and reverse currents within the manufacturers limits		N/A
14.10.4	Battery mould stress relief	5	N/A
14.10.5	Battery drop test	5	N/A
14.11	Optocouplers	The state of	N/A
The state of	a) Comply with 13.6 (jointed insulation) and N.2.1	The The The	N/A
	b) Comply with IEC 60747-5-5:2007		N/A
/	Alternative to a) and b) optocoupler comply with 13.8		N/A
ZH.F.	a) Comply with 13.6 (jointed insulation) and N.2.1	A A A A A A A A A A A A A A A A A A A	N/A
14.12	Surge suppression varistors	No surge suppression varistors used	N/A
	Comply with IEC 61051-2	~	N/A
50	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus	A THE STATE OF THE	N/A
, Y	Complies with the current pulse, fire hazard and thermal stress requirements of 14.12		N/A
15	TERMINALS	The state of the s	N/A
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the	5	N/A

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	IEC/EN 60065	A. LA	
Clause	Requirement – Test	Result – Remark	Verdict
<i>L</i>	appropriate standard	4 6 5	4
N. A.	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	No mains socket outlets.	N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets	No mains socket outlets	N/A
15.1.2	Connectors for antenna, earth, audio, video or data		P
R	No risk of insertion in mains socket-outlets	The The	P
1	No risk of insertion into audio- or video- outlets marked with the symbol of 5.2	THE IN	HT P
15.1.3	Output terminals of a.c. adaptors or similar devices not compatible with household mains socket-outlets	No such terminals	N/A
15.2	Provision for protective earthing	89 X 89	N/A
MARKET	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	I I RIVER I WHEN I WAS A STATE OF THE STATE	N/A
Y.	Protective earth conductors correctly coloured		N/A
182	Equipment with non-detachable mains cord provided with separate protective earth terminal near mains input	The state of the s	N/A
F	Protective earth terminal resistant to corrosion	The Tay of tay of the tay of the tay of the tay of tay of tay of the tay of t	N/A
. /	Earth resistance test: < 0,1 $\Omega$ at 25 A:	T. A.	N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		N/A
15.3.1	Adequate terminals for connection of permanent wiring	The state of the s	N/A
15.3.2	Reliable connection of non-detachable cords:	The The	N/A
~	Not soldered to conductors of a printed circuit board	T. R.	N/A
45/	Adequate clearances and creepage distances between connections should a wire break away		N/A
	Wire secured by additional means to the conductor	The state of the s	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	5	N/A

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7	IEC/EN 60065	The state of the s	
Clause	Requirement – Test	Result – Remark	Verdict
/	means	4 6	4
3	Clamping of conductor and insulation if not soldered or held by screws	THE THE THE	N/A
15.3.5	Terminals allow connection of appropriate cross-sectional area of conductors, for the rated current of the equipment	E THE TOTAL	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
T	Terminals designed to avoid conductor slipping out when tightened or loosened	N. S.	N/A
	Terminals adequately fixed to avoid loosening when the clamping is tightened or loosened and stress on internal wiring is avoided	7 7 7	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	THE STATE OF THE S	N/A
	Terminals located and shielded: test with 8 mm strand	29 1	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	The state of the s	N/A
15.4.2	Device complies with standard for dimensions of mains plugs		N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)	The state of the s	N/A
16	EXTERNAL FLEXIBLE CORDS	THE THE	N/A
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords	T. W.	N/A
5	Non-detachable cords for Class I have green/yellow core for protective earth	5	N/A
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment	E IN THE STATE OF	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	No interconnection wires used	N/A

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
/	dielectric strength	4 6 5	4
S N	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress (3.2 of IEC 60227-2)	AND THE TANK	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		NA
16.5	Adequate strain relief on external flexible cords	1 2 T	N/A
Tr.	Not possible to push cord back into equipment	A B	N/A
	Strain relief device unlikely to damage flexible cord	THE TREE TO	N/A
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor	6 14 6	N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use	The state of the s	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
254	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 MECHANIC	AL FIXINGS	N/A
17.1	Torque test to table 20:	4	N/A
	- Screws into metal: 5 times	4 4	N/A
	- Screws into non-metallic material: 10 times	F 2 3	N/A
17.2	Correct introduction into female threads in non-metallic material	THE THE	N/A
17.3	Cover fixing screws: captive	The state of the s	N/A
5	Non-captive fixing screws: no hazard when replaced by a screw whose length is 10 times its diameter		N/A
17.4	No loosening of conductive parts carrying a current > 0,2 A		N/A
7.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0,2 A	S. A. LANDER	N/A
7	2,000	A	

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7	IEC/EN 60065	T. T.	
Clause	Requirement – Test	Result – Remark	Verdict
5	carrying a current > 0,2 A with screw terminals not consolidated by solder		4
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		N/A
18	Mechanical strength of picture tubes and protection implosion	on against the effects of	N/A
18.1	Picture tube separately approved to IEC 61965 :	No picture tubes used	N/A
2	Picture tube separately approved to 18.2:	L 2 L	N/A
18.2	Non-intrinsically protected tubes tested to 18.2	La Fa La	N/A
19	STABILITY AND MECHANICAL HAZARDS	E LIFE HATE	P
, E	Mass of the equipment exceeding 7 kg:	T. A.	N/A
	Apparatus intended to be fastened in place – suitable instructions	25	2
19.1	Test on a plane, inclined at 10o to the horizontal	THE STATE OF THE S	N/A
19.2	100 N force applied vertically downwards	The The Tale	N/A
19.3	100 N force, or 13% of weight, applied horizontally to point of least stability.	Less than 25kg, test not required	N/A
19.4	Edges or corners not hazardous	Edges or corners are smooth and rounded.	Р
19.5	Glass surfaces (exc.laminated) with an area exceeding 0,1 m² 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	50N applied. After tests, No hazard.	P
20	RESISTANCE TO FIRE		Р
20.1	Electrical components and mechanical parts	H H	PZ
MAN	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with openings not exceeding 1 mm in width	SE THE WAY	N/A
~	b) Exemption for small components as defined in 20.1	£ 2	PS

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7	IEC/EN 60065	Y K	
Clause	Requirement – Test	Result – Remark	Verdict
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	ALL LAND LAND	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	AMANA TEST	ANTES, A
Z.	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	WAIT TO	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	PHMAIL
THE THE PERSON OF THE PERSON O	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13	55	N/A
14 14 14 14 14 14 14 14 14 14 14 14 14 1	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	WHAN TEST	N/A
20.2	Fire enclosure	1 15	N/A <sup>/</sup>
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	A TEST	N/A
20.2.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	Alle The	N/A
20.2.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	<i>K</i>	N/A
Á	ANNEX A, ADDITIONAL REQUIREMENTS PROTECTION AGAINST SPLASHING WATER	FOR APPARATUS WITH	N/A
A.5	Marking and instructions	ET IN THE	N/A
A.5.1	j) Marked with IPX4 (IEC 60529), 5.4.1 a) does	THE	N/A
1	not apply		

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7	<u> </u>	A (4)	
Z.	IEC/EN 60065	T, TE	
Clause	Requirement – Test	Result – Remark	Verdic
A.10.2	Splash and humidity treatment	4 19	N/A
A.10.2.1	Enclosure provides protection against splashing water	A A A	N/A
A.10.2.2	Humidity treatment carried out for 7 days	The second second	N/A
	7,	_	
В	ANNEX B, APPARATUS TO BE CONNECTED TO NETWORKS	O THE TELECOMMUNICATION	N/A
ZIV	Complies with IEC 62151 clause 1	A A	N/A
X.	Complies with IEC 62151 clause 2	A C	N/A
	Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard	2 6	N/A
,	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	THE	N/A
RHA	Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard	TIN TINE	N/A
~	Complies with IEC 62151 clause 6	150	N/A
4	Complies with IEC 62151 clause 7	\$ 5	N/A
E STATE OF THE STA	Complies with IEC 62151 annex A, B and C		N/A
7	ANNEX L, ADDITIONAL REQUIREMENTS APPARATUS FOR PHOTOGRAPHIC PURPOSE		N/A
L. 5	Marking and instructions		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	STATE OF THE STATE	N/A

7. ×	ANNEX L, ADDITIONAL REQUIREMENTS APPARATUS FOR PHOTOGRAPHIC PURPOSE		N/A
L. 5	Marking and instructions		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	R. J. H. M.	N/A
TA	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used	The state of the s	N/A
L. 7	Heating under normal operating conditions	4	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	E LE	N/A
L. 9	Electric shock hazard under normal operating conditions	S	N/A

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Z	IEC/EN 60065	TIP TEN	
Clause	Requirement – Test	Result – Remark	Verdict
L9.1.1	Terminals to connection to synchroniser not HAZARDOUS LIVE	THE	N/A
L9.1.1.1	If possible, flashing is made during the measurements	EN WHE THE	N/A
L.10	Insulation requirements	, ^	N/A
L10.3.2	High frequency puls ignition	5 1	N/A
L. 12	Mechanical strength	THE THE	N/A
L12.1.3	Windows for flash tubes are excluded from the steel ball inpact test	A IN IN	N/A
L. 14	Components		N/A
L14.6.6	Mains switch characteristics appropriate to its function under normal conditions		N/A
L. 20	Resistance to fire	E Z	N/A
L20.1 c)	Trigger coil for discharge purpose is not considered to be a POTENTIAL IGNITION SOURCE	T. A. T. M.	N/A

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1/1	IEC 60065, GROUP DIFFERENCES (CENELEC common modifications (EN))	· 4
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	P LST
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.	N/A
2.2 (A12:2011)	In EN 60065:2002/A11:2008  Delete the definition 2.2.Z1	N/A

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7	T T T	- T	
3.1	Add the following indent at the end of the list	T. E	N/A
12	- Exposure to excessive sound pressures from headphones or earphones	~	5
15 1 3 N	NOTE A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment	19 7	
The state of the s	<ul> <li>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:</li> </ul>	TA	N. N. W.
JAMHA I ES	Headphones 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.	THE MAN WELL STATE OF THE PARTY	MIANTEST
3.1	In EN 60065:2002		N/A
(A12:2011)	Delete the addition of indent regarding sound pressure excessive	5	4
3.Z1	After 3.2 add a new clause 3.Z1:	5 5	P
(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):	I'R HA	NA N
~ <u>_</u>	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;		54
THE STATE OF THE S	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 Tile	THE STATE OF THE S
9	c) it is permitted for equipment supplied via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS, to rely on dedicated over current and short-circuit protection in the	The Market	
THE	building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	THE TENTH	A BANK
145	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		1.0.
4.1.1	Replace the text of the note by: NOTE For ROUTINE TEST reference is made to EN 50514.	The File	N/A

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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
5.4.1 (A12:2011)	In EN 60065:2002/A1:2006 and EN 60065;2002/A11:2008  Delete the modification in indent za)  Add the following clause and annex to the excisting standard and amendments	N/A
5	Zx Protection against excessive sound pressure from personal music players	4



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_	Shenzhen Han Hai Test	- 2		T.
	Zx.1 General	Υ,	F	N/A
	This sub-clause specifies requirements for		~	
	protection against excessive sound pressure from			,5
	personal music players that are closely coupled to	,42	4	4
4	the ear. It also specifies requirements for	8	4 5	X
3	earphones and headphones intended for use with	77,	E Z	V
	personal music players.			ZY,
	A personal music player is a portable equipment	T.		18
	for personal use, that:		4	
	is designed to allow the user to listen to		49	
	recorded or broadcast sound or video; and	5		5
	primarily uses headphones or earphones that	24	FIL	14
	can be worn in or on or around the ears; and	F	F	F
	allows the user to walk around while in use.	Z.	~	7
	NOTE 1 Examples are hand-held or body-worn	The second	/	1
	portable CD players, MP3 audio players, mobile		4	
	phones with MP3 type	1	Li Company	4
	features, PDA's or similar equipment.	9	£ /	5
4	A personal music player and earphones or	V 3	,	
	headphones intended to be used with personal	L.F	The	18
	music players shall comply with the requirements of		E.	
	this sub-clause.		77	
	The requirements in this sub-clause are valid for	5		.5
	music or video mode only.	24	4	24
	The requirements do not apply:	T.	4	- F
	while the personal music player is connected	2	5	
	to an external amplifier; or		ZN X	7
^	while the headphones or earphones are not		F	, 5
	used.	L /		_
	NOTE 2 An external amplifier is an amplifier which	69		,9°
1	is not part of the personal music player or the	~	5	~
-	listening device, but which is		W XT	4
	intended to play the music as a standalone music	F	F	F
	player.	7	7	- Fix
	The requirements do not apply to:	7/2		77
	hearing aid equipment and professional		4	
	equipment;		19	
	NOTE 3 Professional equipment is equipment sold	6	E	6
	through special sales channels. All products sold	4	Y X	4 28
1	through normal	F. E.	T	· E
Y	electronics stores are considered not to be	1,	Z.	1
	professional equipment.		The	
	analogue personal music players (personal	A		4

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players without any kind of digital

music



	- 7		— — — — — — — — — — — — — — — — — — —	//
	Cont.	Zx.2 Equipment requirements	T, E	N/A
1	A.	No safety provision is required for equipment that	A.	, 4
	N.	complies with the following:	4	,5
	,	equipment provided as a package (personal	4 6	<b>Y</b>
	5	music player with its listening device), where	2 4 3	1 14
X	4 3	the acoustic output LAeq,T is ≤ 85 dBA measured	R E Z	5
F	F	while playing the fixed "programme		37
		simulation noise" as described in EN 50332-1;	18 Tolland	IF
		and		~
	6	a personal music player provided with an	19	
	4	analogue electrical output socket for a listening	6 5	5
	, F	device, where the electrical output is ≤ 27 mV	41 11	4
	77	measured as described in EN 50332-2, while	R F	F R
	R	playing the fixed "programme simulation noise" as	Tr. V.	Z. V.
		described in EN 50332-1.	The state of the s	
	. A	NOTE 1 Wherever the term acoustic output is used		
	S	in this clause, the 30 s A-weighted equivalent sound		. P
1	/	pressure level LAeq,T is	5 7 5	F.
7	,4	meant. See also Zx.5 and Annex Zx.		37,
	2	All other equipment shall:	The The	F
	74,	a) protect the user from unintentional acoustic	7	
	R	outputs exceeding those mentioned above; and		
		b) have a standard acoustic output level not	5	,5
	,	exceeding those mentioned above, and	L L	14
	.6	automatically return to an output level not	Z 42	78,
	14	exceeding those mentioned above when the	3 8 .	
	J.	power is switched off; and		3
3		c) provide a means to actively inform the user of the	T. T.	12
1/1		ncreased sound pressure when the equipment is		_
		operated with an acoustic output exceeding	65	p .
	4 4	those mentioned above. Any means used shall	5 5	6
4	P	be acknowledged by the user before activating a	The File	4
(~	The same	mode of operation which allows for an acoustic	The state of the s	T
	TE	output exceeding those mentioned above. The	Z. Y.	=======================================
		acknowledgement does not need to be repeated	7/2	77
	Cont.	more than once every 20 h of cumulative	4	
	4	listening time; and	15	10
	47	NOTE 2 Examples of means include visual or		6
· F		audible signals. Action from the user is always	4 2 4	i z
7,	4	required.	E E	F
	The	NOTE 3 The 20 h listening time is the accumulative		
	F	listening time, independent how often and how long	1/4	
	~	the personal music	<u>^</u>	4
		player has been switched off. d) have a warning as specified in 7x 3: and	4	4
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		T	V / / V	

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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 acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.

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F	T T T	- K X	
P. S.	Zx.3 Warning	T. IN	N/A
4.	The warning shall be placed on the equipment, or		_
	on the packaging, or in the instruction manual and	5	4
4	shall consist of the following:	4 5	
6	the symbol of Figure 1 with a minimum	R Th Th	4
	height of 5 mm; and	Z. Z. Z.	72
The	the following wording, or similar:	THE THE PERSON NAMED IN TH	TAN
3	"To prevent possible hearing damage, do not listen		
,6	at high volume levels for long periods."		,
THE PARTY OF THE P		THE THE THE TENT OF THE TENT O	WHINE ST
S WHA	Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given	STATE OF THE STATE	, MAN
TA	through the equipment display during use,	~	,
	when the user is asked to acknowledge activation of the higher level.	25	145
Cont.	Zx.4 Requirements for listening devices (headphone	s and earnhones)	N/A
14	ZX.4 (Coquirements for insterning devices (fieldphone	3 and carphones	
T	3 44 MC 18:30 1 1 1 1 1 1 1 1	7, 7,	
2	Zx.4.1 Wired listening devices with analogue input	T	N/A
X	With 94 dBA sound pressure output LAeq,T, the	~	_
	input voltage of the fixed "programme simulation	(9)	0
4	noise" described in EN 50332-2 shall be ≥ 75 mV.	5 5	ć
9	This requirement is applicable in any mode where	THE THE	4
\ \_\\	the headphones can operate (active or	A A	F.
F	passive), including any available setting (for	Th. Th.	Zz.
~	example built-in volume level control).	T. S.	T. B.
	NOTE The values of 94 dBA – 75 mV correspond		
-2-	with 85dBA – 27 mV and 100 dBA – 150 mV.	â	

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7	- C		
N. S.	Zx.4.2 Wired listening devices with digital input	T. T.	N/A
TANK!	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device	AND AND LINES	LS THE WALL
18 WHALTEST	shall be ≤ 100 dBA.  This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like	State of the state	TO SALLES
5	equalization, etc.).  NOTE An example of a wired listening device with digital input is a USB headphone.		
TEST TANNALL	Zx.4.3 Wireless listening devices In wireless mode:    with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and    respecting the wireless transmission standards, where an air interface standard exists that		N/A
NH.	specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.)		70
S. HAM	set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	THE THE THE	NAWA KANANGA K
453	NOTE An example of a wireless listening device is a Bluetooth headphone.		48

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			1.3		
Z.	Zx.5 Measurement methods	V. A		N/A	7,
17	Measurements shall be made in accordance with			4	
	EN 50332-1 or EN 50332-2 as applicable.	4		5	
4	Unless stated otherwise, the time interval T shall be	4 6		~	
5	30 s.	F W	The		1
\$ Z		Zi. A	F		P
T. B.	NOTE Test method for wireless equipment provided	· <u>×</u>	1		
	without listening device should be defined.	T		TA	



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	7	· A, · · · A, · · · · · · · · · · · · ·	· A X		_
`	6.1	Replace the entire subclause in EN 60065:2002 and EN 60065:2002/A1:2006 by:	T. T. T.	N/A	R
	(A11:2008)	Ionizing radiation	4	5	
	4	Apparatus including a potential source of ionizing radiation shall be so constructed that personal		4	S
1/1/		protection against ionizing radiation is provided under normal operating conditions and under fault	HT HT LANGE	J.R.	,
	17	conditions.	F.	E .	
	,	Compliance is checked by measurement under the following conditions:	~	2	
	,5	In addition to the normal operating conditions, all	, , , , , , , , , , , , , , , , , , , ,	7	
	20	controls adjustable from the outside BY HAND, by any object such as a tool or a coin, and those		5	
	T. S.	internal adjustments or pre-sets which are not	7, %	7,	
	E.	locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an		The 1	
1	(,	intelligible picture for 1 h, at the end of which the		5	
	1	measurement is made.	~		
0	S	NOTE 1 Soldered joints and paint lockings are examples of adequate locking.	2 2 2	4	
//	4	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at		ZHE	
	T.	any point 10 cm from the outer surface of the apparatus.		The	
	Z.	Moreover, the measurement shall be made under	F		
	Y. Y.	fault conditions causing an increase of the			
		high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the	1 - 1	49	
		measurement is made.	5 5		
	4	The dose-rate shall not exceed 1µSv/h (0,1 mR/h) taking account of the background level.	A A A	Z.	
	The Y	NOTE 2 These values appear in Directive 96/29/Euratom of 13th May 1996.		. 3	1///
X		A picture is considered to be intelligible if the following conditions are met:	6	4	
-	4	- a scanning amplitude of at least 70 % of the usable screen width;	S XX	0	)
j	HAZ	- a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator;	THE THE PARTY OF T	N. S.	
	T	- a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;		TRA	
	4	- not more than one flashover per 5 min.	5		

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					V- /		_
	Z1	Add the follo	wing new clause after Clause	20:	, E	N/A	1
2	(A11:2008)	Z1 Resistanç	e to candle flame ignition	3	^-		
	48	likelihood of	set shall be so designed ignition and the spread of fir lame is reduced.			9	4
4/2	AN IN	regarded to b	apparatus with a viewing scre be a television set if it is decla manufacturer.		The like	N. A.	
			ment does not apply to the ar projection TV's.	e display	T. T.	17	
	WHALTEST	this technological expected that	s exemption has been allowed ogy is falling out of use a at within a few years it will i kemption will not be extended	and it is no longer	K K K K K K K K K K K K K K K K K K K	ALTEST	
1	R		ne frame around the scree om the requirements.	n is not			
1	6	thickness of	WOOD-BASED MATERIAL at least 6 mm is considered to ent when applying CLC/TS 62	o fulfil the		4	Ġ.
	4	Compliance 62441.	is checked according to	CLC/TS	AN LE	ZIR.	
	Sy HAWHAY	of clause 5.2 perfectly ver as any surface a candle of while the casurface. A t	term vertical, as used in the 2 of CLC/TS 62441, does no tical position. It should be ince that can be touched by the 150 mm height and 20mm andle is still touching the stypical candle used in the pe 20 mm diameter.	t mean a Iterpreted It	ALL STATES AND	HA1783 714,	
18:		future be rep standard will	expected that CLC/TS 62441 laced by a standard, at which become applicable, subject Committees at the time.	time that	TRANK! IN		1/1/1
	General	13.3.1 14 15.1.1	Delete note 4. Delete note 4 and note 5. Delete notes 1 and 2.	12	5 5	N/A	くつ
0.7	N HH	15.2 16.1 16.2	Delete note 2. Delete note 1. Delete the note.	TINE TIME	THE THE	The state of the s	
	7,	20 Annex B	Delete note 2. Replace note 1 by: In the C special national conditions a		tries listed in IEC 62151,	THE	
	2	Annex G	Delete the note.	ppiy.			
	,5	Annex J.2	Delete the notes of Table J.1		4	/	1
1/	4	Annex N	Add after the introduction: For EN 50333. (Replaced by EN		EST reference is made to	S AR	1

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General	In IEC 60065:2001/A2	7.	R		N/A	/
(A2:2010)	Delete all the "country" notes according to the fo 5.3 Note 5.4.1 Note 20 Note For special national conditions, see Annex ZB.	ollowing list:	Z ZSZ	114/4	182	^
Bibliograph y	Additional EN standards.	The same of	ZHE ZHE	T/R/	The state of the s	7

ZA	Normative references to international publications with their corresponding European publications	25	P
74	A & A & S	8	,5

ZB	ANNEX ZB TO EN 60065, SPECIAL NATIONAL CONDITIONS (EN)	P
2.6.1	DK: The following is added:	N/A
5	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	
4	Justification: Heavy Current Regulations, Section 107.	A A
3.Z1	Denmark	N/A
(A2:2010)	Add to the end of the subclause	777
~	Due to many existing installations where the socket-outlets can be protected with	25
15	fuses with higher rating than the rating of the socket-outlets the protection for	E X
N. T.	pluggable equipment type A shall be an integral part of the equipment.	A. TA
Z. v	Justification:	, 5
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	29

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	7		- A. K.	
	5.3	Finland, Norway and Sweden	T, E	N/A
2	(A2:2010)	To the end of the subclause the following is added:	~	4
		CLASS I apparatus which is intended for connection to the building installation wiring	5	53
4	\$ X	via a plug or an appliance coupler, or both and in addition is intended for connection	A LE MA	Š.
Y.	TAN TAN	to other apparatus or a network shall, if safety relies on connection to protective earth	The Ville	ZH
		or if surge suppressors are connected between the network TERMINALS and	73	77
	19	ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an	6	5
	· F	earthed MAINS socket-outlet.	41 25	4
	N. A. S.	The marking text in the applicable countries shall be as follows:	THE THE	THE Y
-		In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	3	
/	5	In Norway: "Apparatet må tilkoples jordet stikkontakt"	LE L	Ź
<	, Li	In Sweden: "Apparaten skall anslutas till jordat uttag"	THE LET	THE,
	5.4	Finland, Norway and Sweden	J. J.	N/A
	(A11:2008)	To the end of 5.4 the following is added:	2	
	F	CLASS I apparatus which is intended for connection		
		to the building installation wiring via a plug or an		5
		appliance coupler, or both and in addition is intended for connection to other apparatus or a		4
	6	network shall, if safety relies on connection to		R
	4	protective earth or if surge suppressors are		7.
	F S	connected between the network TERMINALS and ACCESSIBLE parts, have a marking stating that the		
-	Z. V.	apparatus must be connected to an MAINS		18
1		socket-outlet with protective earth.	A	
	4	The marking text in the applicable countries shall be as follows:		,
ć		In Finland: "Laite on liitettävä	12 JA	,47
4	Zir.	suojamaadoituskoskettimilla varustettuun pistorasiaan"	A A	N. N.
	72	In Norway: "Apparatet må tilkoples jordet stikkontakt"	THE TOTAL PROPERTY OF THE PROP	THE STATE OF THE S
	4	In Sweden: "Apparaten skall anslutas till jordat uttag"	6	
			, " , '	

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5.4.1	
(A11:2008)	١

Norway and Sweden

To the end of 5.4.1 (after the compliance statement) the following is added:

The screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.

It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.

The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:

"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"

NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.

Translation to Norwegian (the Swedish text will also be accepted in Norway):

"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet."

Translation to Swedish:

"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand.

Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet." N/A

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	1	· A · A · A	· A. K. Y		_
7	13.3.1	NO: To the second paragraph the following is added:	Z. Z.R.	N/A	· RI
	357	In Norway, due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault.			
XX	i Maria	Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided.	THE	, RHP	
	15.1.1	Denmark		N/A	
	(A11:2008)	The text of the Danish SNC in EN 60065:2002 has been modified as follows:		4	
	1	To the first paragraph the following is added:	43 7	40	
1	THAN THE	In Denmark, supply cords of single-phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations Section 107-2-D1.		MAN /	1.1
2/	KANTES VST	Appliances of CLASS I provided with socket-outlets with earth contact 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 the Heavy Current Regulations, Section 107-2-D1 standard sheet DK 2-1a.		I AMARIA	07
		To the second paragraph the following is added:	, F		
	XX 283	Socket outlets intended for providing power to CLASS II apparatus with a rated current of 2,5 A shall be in accordance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-4a.	,5	14/1/25	
'R'	TANA Z	Other current ratings socket outlets shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-3a or DKA 1-3b.	2 7		1/1/2
		To the third paragraph the following is added:	5		
10,0	N W W	Mains socket-outlets with earthing contact shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DK 1-3a, DK 1-5a or DK 1-7a.	S	N. A.	5
	17	Justification: Heavy Current Regulations, Section 107-2-D1	A Li	B	
4/2	15.1.1	IE: Apparatus which is fitted with a flexible cable or cord shall be provided with a 13 A plug in accordance with Statutory Instrument 525:97, "13 A Plugs and Conversion Adapters for Domestic Use Regulations:1997.	4 44	N/A	4/,
1	4	Justification: SI 525: 1997	E E	E.	

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7	A A A	X	
15.1.1	NO: Mains socket-outlets mounted on CLASS II apparatus shall comply with the specifications given in CEE Publ. 7 as far as a applicable, with the following amendments:		N/A
_	§ 8 Dimensions	4 5	
Si Maria	a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.  Mains socket-outlets 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 Comercions  a 2.5 A 250 V two pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.		TAWAY.
4	STANDARD SHEET I	.5	
44	2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II		5
(RAH)	27,5 min. 15+0,5-0	WHEN THE T	NH N
4		5	
40	Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets".	A LEW	J. J. H.
74	§ 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.	IN THE	I.R.
	§ 24 Mechanical strength	J. J.	
171	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		7537
54	Justification: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).		N. N. S.
15.1.1	UK: Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug shall be fitted with		N/A
S HA	a "standard plug" in accordance with Statutory Instrument 1768: 1994: The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those Regulations.	19 A	NA TRO
72	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.  Justification: SI 1768: 1994	1 , 3	ZIA.
\(\sigma_1\)	1/2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	* *	NI/A
J.2	NO: After Table J.1 the following is added: In Norway, due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault.	F F	N/A
1/2	Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided.		45
- 111/	- N - G	(6)	

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ZC	ANNEX ZC TO EN 60065, A-DEVIATIONS (EN)	^	N/A
5.1	IT: Additional markings on the outside of the TV receiver in Italian language	487	N/A
Sy	IT:User instructions in Italian language including a conformity declaration	A A A	N/A
~	IT: Certification number on the back cover	i Z	N/A
6.1	DE: The following requirement applies:  For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.		N/A
P. S.	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	R	N. I.
	NOTE Contact address:  Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	TO THE PERSON OF	S AN
14	SE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.		N/A
	Justification: Ordinance (1990:944) on Prohibition in Connection with handling. Importation and exportation of Chemical Products (Certain Cases)	24 1	17/16/57

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5.1	TABLE:	Input test	. V-		Υ		7.		^	Р
	the func	onsumption in th		and-by mo	de of	, and	40		A	_
Cond.	Un (V)	Freq. (Hz)	In (A)	Pn (W)	Ud	out(V)	Pout (W)	Operat	ing cor	nditions
8		A - A		72-	25	7	71.	Nor	mal op	eration
7.1	TABL	E: temperature r	ise measu	urements			77			R
	Louds	speaker impedar	nce (Ω) :			4	Ω8	1	87	_
Li	Seve	ral loudspeaker s	systems :		14		15 1	N. A.	4	
The	Marki	ng of loudspeak	er termina	ls	ZZ.	-	5 1	E.		
Monitored	d point:				dT (K) Limit dT			nit dT (K)		
							100V			
Internal w	vire						10.2			70
Transforn	ner windings	S			65.0				85	
Surface o	f enclosure						6.9			60
Ambient							27.7			
7,	Winding	temperature rise	measure	ments	7			, F		
77	Ambient	temperature t1 °	C <b>)</b>	:	•				_	_
	Ambient	temperature t2 °	C <b>)</b>	â:	ζ.		4		_	-
•	ture rise dT – R1) x (23	of winding: 4.5 + t1) – (t2 – t	1)	R <sub>1</sub> (Ω)		$R_2 (\Omega)$	dT (K	,	nit dT K)	Insulation class
	7.	- 21	().	8-			-8	5	_	
Note(s):	4	7,	<i>k</i>			6		<u>'</u>	Ċ	4

7.2 TABLE:	softening temperature of the	ermoplastics		THE	N/A
Temperature T of part	T - normal con-ditions	(°C) T - fault condi-tio	ons (℃)	Min T softe (°C)	ning
		6	ć		
S	3	4	4	-	~

10.3	TABLE: insulation resistance measurements	A.F.	N/A
Insulation re	sistance R between:	R (MΩ)	Required R (MΩ)
7,	<u>^</u>	4	&
	9 - 4	4	L KI

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10.3	10.3 TABLE: electric strength measurements							
Test vol	tage applie	d between:				Test voltage (V)	Breakdown	
0	J.R.	49	J.F	2	3		Zi'	
. 8	2	T.	-8	F	'A	127	Z Z	

		0		Co-	7		
11.2	4	TABLE: 9	summary of fault co	ondition tests		5	Р
Voltage (V			(V) 0,9 or 1,1 times	rated voltage:	£100	2	_
X		Frequenc	cy (Hz)	£ X	# 1	ZYT	
N. R.		Ambient	temperature (°C)		22.0-2	6.0	_
No.	Cor	nponent	Fault	dT (K) / Cor	nponent	Result	
1 Speaker		aker	Short-circuit	Surface of enclosure Winding of transform Internal wire: 10.8 K;	er: 87.7 K;	No tempera above limits. No hazard.	< A

	6		1	7.					1	1
13.3 & 13.4	TABLES:	clearances	and creepag	ge distance	s	~		7	5	N/A
Rated supply	/ voltage:	8	Pollution	degree:			Ma	terial Gr	oup:	
2 N force for	internal co	mponents a	applied:	7	·	ć				5
30 N force or	n outside o	f conductive	e enclosure a	ipplied:	_	14			~	14
Location			Operating	Operating Voltage Clearance (r			m)	Creepa	ge (mm)	CTI
			V peak	V rms	Min	Actu	al	Min	Actual	-
Z Z		T.	'A.	7				74.	~	
Notes: "Min"	= minimun	n required.	"Actual " = Ad	ctual dimer	sions me	easured	J. 🟑	Y.		34

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4.4	TABLE II ( C III )				
14	TABLE: list of critical of	components and	materials		Р
Component	Manufacturer/ trademark	Type / Model	Technical Data	Standard	Approval /Reference
Enclosure	ZHENJIANG CHI MEI CHEMICAL CO.,LTD	D-1200	Min. 1,0 mm, HB, 95℃	UL 94	UL E194560
External / Internal wires	FOSHAN NANPING ELECTRICAL WIRE FTY	1007, 1015	22AWG, 300V, 105°C	UL 758	UL E258510
Audio amplifier Transformer		254	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℃	IEC/EN 60065	UL Tested with appliance
- Bobbin	El Dupont de Nemours Co., Inc.	Nylon 101L	Min.0,71 mm, 130℃	IEC/EN 60065	UL Tested with appliance
- Insulation tape	Jingjiang Yahua Pressure Sensitive Glue Fty.	CT25#, PT25#	130℃	IEC/EN 60065	UL Tested with appliance
Speaker		The state of the s	8 ohm	IEC/EN 60065	UL Tested with appliance

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<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.



7					1	
	4	Att	achment Fo	r TH19AR-81	<b>7</b> S	5
ŀ	T-774P	T-774	Т-775	T-776	T-775W	T-776W
	T-775P	T-776P	T-774PW	T-775PW	T-776PW	T-776H
ľ	T-778H	T-103E	T-774HW	T-775HW	T-776HW	T-778HW
ľ	T-778P	T-601C	T-601	T-778PW	TS-18SP	T-601G
ľ	T-601S	T-109	T-109A	T-109B	T-601X	T-611
ľ	T-776AW	T-601L	T-775H	TK-12	TK-15	TK-10
ľ	TF-700	T-774H	T-612	T-601LR	T-601R	7-601B
ľ	T-776A	T-601XR	T-776WR	T-774R	T-601XW	T-775A
	T-601SR	T-775AW	T-602X	T-602XW	T-7707	T-7707BG
5	T-774S	T-774SW	T-775S	T-775SW	T-776S	T-776SW
ľ	T-778S	T-778SW	TS-6152	TS-774R	TS-774WR	TS-775R
ľ	TS-775WR	TS-776R	TS-776WR	TS-8A03	VA-515	VA-710A
ľ	VA-710K	VA-720A	VA-720B	VA-720R	VA-720X	VA-770T
ľ	VA-774H	VA-774HW	VA-775H	VA-775HW	VA-776H	VA-776HW
ľ	VA-780	T-501	T-601TW	T-601V	T-901TB	TS-12A02
ľ	TS-16A03	TS-24A02	TS-12S	TS-15SP	T-774W	T-7707GT
ľ	T-7707AK	T-7704K	T-776R	T-765	T-776RS	T-601D
ľ	T-7707BK	T-7707K	T-778	T-765W	T-771	T-601E
K	T-7707BGK	T-502	T-766	T-710AR	T-772	T-601F
ľ	T-7707BMK	T-503	T-766W	TS-10S	T-601T	T-601GR
	T-7782AK	T-504	T-767	T-778W	T-601P	T-601H
	T-7784AK	T-506	T-767W	T-775RS	T-601BR	T-601HZ
1	T-768	T-7707T	T-7707L	T-7707BT	T-7707BGT	T-7707UT
X	T-7707BMT	VA-565	SP-102	SP-101	2	
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#### **ANNEX A- EUT PHOTOGRAPHS**

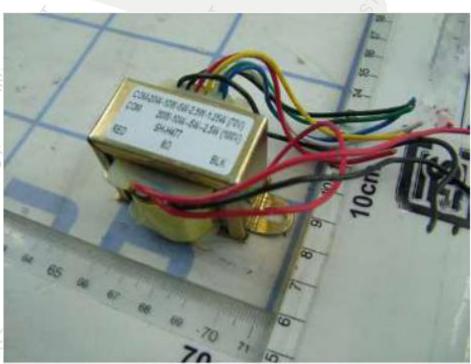




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\*\*\*\*END OF THE REPORT\*\*\*\*

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# China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE (Registration No. CNAS L5885)

#### Shenzhen Tianhai Test Technology Co., Ltd.

(Legal Entity: Shenzhen Tianhai Test Technology Co., Ltd.)

4B/F., Building A3, The Silicon Valley Power Intelligent Terminal Industrial

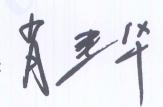
Park, Guanlan Street, Longhua District, Shenzhen, Guangdong, China

is accredited in accordance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.

Effective Date: 2019-01-22
Expiry Date: 2025-01-21

Signed on behalf of China National Accreditation Service for Conformity Assessment



China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA). The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml