



Ref. Certif. No.

JPTUV-053732-M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

LCD monitor

Name and address of the applicant
Nom et adresse du demandeurTPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City, Fujian Province, P.R. ChinaName and address of the manufacturer
Nom et adresse du fabricantTPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City, Fujian Province, P.R. ChinaName and address of the factory
Nom et adresse de l'usine

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

AC 100-240V; 50/60Hz; 1.5A; Class I

Trademark (if any)
Marque de fabrique (si elle existe)

AOC

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type280LM000**, *2870*****
(* = A-Z, a-z, 0-9, -, \, /, + or blank; Represents
different enclosure color and sales regions for marketing
purpose only, no technical difference.)
For model differences, refer to the test report.
Re-issue of JPTUV-053732 dated 29.10.2013,
due to first modification.Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,
peuvent être indiqués sur la 2^{ème} page)A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à laIEC 60950-1:2005 + A1
National differences see test reportAs shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

17034402 002

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 07.01.2014

Signature:

Dipl.-Ing. (FH) C. Nasca

1. Tatung Mexico S.A. de C.V.
Ave. Rosa Ma. Fuentes #7050
Complejo Industrial Fuentes
C.P. 32320, Cd. Juarez. Chih,
MEXICO
2. TPV Display Technology (Wuhan)
Co., Ltd.
Unique No. 11, Zhuankou Development
District of Economic Technological
Development Zone, Wuhan City 430056, P.R. China
3. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City, Fujian Province
P.R. China
4. Envision Industry of Electronic
Products Ltd.
895, Joao Marcos Pozzetti Street,
Industrial District II,
69.075-215 Manaus, Am, Brazil
5. Tatung Czech s.r.o
U Nove Hospody 4
30100 Plzen
Czech Republic
6. Envision Industry of Electronic
Products Ltd.
Rodovia Anhanguera S/N-KM 49
13.205-700 Tijuco Preto-Jundiaf-SP-
Brazil
7. TPV Displays Polska Sp. z o.o.
ul. Zlotego Smoka 9
66-400 Gorzów Wlkp.
Poland
8. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao
Economic and Technological
Development Zone
Fuqing, Fujian 350301, P.R. China
9. Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz
de 19602 Nueva Tijuana,
22435 Tijuana Baja California
MEXICO

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 17034402 002

Date: 07.01.2014

Signature:


Dipl.-Ing. (FH) C. Nasca

10. TPV Display Technology (Beihai)
Co., Ltd.
China Electronic Beihai Industry
Park, Northeast of the Crossing
Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
11. Envision Industry of Electronic
Products Ltd.
Av Torquato Tapajós 7503,
Galpão : Il Bloco: B-Condomínio
de Galpões-Tarumã-Manaus, AM, Brazil
12. TPV Technology (Qingdao)
Co., Ltd.
No.99 Huoju Road, High-tech
Industrial Development Zone
Qingdao City, Shandong Province, P.R. China
13. TPV Display Technology (China)
Co., Ltd.
No. 106 Jinghai 3 Rd., BDA
Beijing City 100176
P.R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

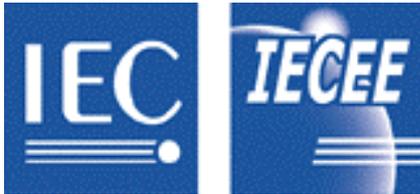
Report Ref. No.: 17034402 002



Date: 07.01.2014

Signature:

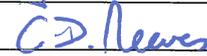
Dipl.-Ing. (FH) C. Nasca



Test Report issued under the responsibility of:



TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number	17034402 002
Date of issue	09. Jan., 2014
Total number of pages	13 pages
CB Testing Laboratory	TÜV Rheinland (Shenzhen) Co., Ltd.
Address	3 & 4 F, Cybio Technology Building No. 1, Langshan No. 2 Road South, 5th Industrial Area, High-Tech Industry Park North, Nanshan District, 518057, Shenzhen, P.R. China
Applicant's name	TPV Electronics (Fujian) Co., Ltd.
Address	Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China
Manufacturer's name	Same as applicant
Address	Same as applicant
Test specification:	
Standard	IEC 60950-1:2005 (Second Edition); Am 1:2009
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No	IEC60950_1C
Test Report Form(s) Originator	SGS Fimko Ltd
Master TRF	Dated 2012-08
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
Test item description	LCD monitor
Trade Mark	AOC
Manufacturer	See above
Model/Type reference	280LM000**, *2870***** (See page 6 for definition of *)
Ratings	I/P: 100-240Vac, 50/60Hz, 1.5A

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.
Testing location/ address		3 & 4 F, Cybio Technology Building No. 1, Langshan No. 2 Road South, 5th Industrial Area, High-Tech Industry Park North, Nanshan District, 518057, Shenzhen, P.R. China
<input type="checkbox"/>	Associated CB Laboratory:	N/A
Testing location/ address		N/A
Tested by (name + signature)		Jet Luo 
Approved by (name + signature)		C. D. Reeves 
<input type="checkbox"/>	Testing procedure: TMP	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: WMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: SMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		
<input type="checkbox"/>	Testing procedure: RMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		

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

- Photo documentation (4 pages)

Summary of testing:

Test performed (see page 6):

The test was carried out under the most unfavorable combination within the manufacturer's operating specifications of the following parameters:

- supply voltage, which ranged from 100-240Vac
- operating temperature, Max. ambient temperature 40°C declared by the client
- operating mode: continuous
- operating load:
100% brightness, 100% contrast, full white screen and optimal resolution@60Hz, which consumed maximum output power; speakers were loaded with 1KHz sinusoidal signal and turned to maximum volume (for mainboard 715G6124 with speakers unit only)

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2

Summary of compliance with National Differences

See original report 17034402 001

Copy of marking plate

See original report 17034402 001

Test item particulars:	
Equipment mobility.....:	<input checked="" type="checkbox"/> movable (for unit with base stand) <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input checked="" type="checkbox"/> stationary (for unit without base stand) <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input checked="" type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains
Operating condition.....:	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values	±10% (requested by client)
Tested for IT power systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	16A (20A for North America)
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IP20
Altitude during operation (m)	Up to 5000
Altitude of test laboratory (m)	Less than 2000
Mass of equipment (kg)	Approx. 4.97kg for unit with base stand (for unit without speakers unit); Approx. 5.17kg for unit with base stand (for mainboard 715G6124 with speakers unit); Approx. 0.43kg for base stand
Possible test case verdicts:	
- test case does not apply to the test object	: N/A
- test object does meet the requirement.....	: P (Pass)
- test object does not meet the requirement.....	: F (Fail)
Testing:	
Date of receipt of test item	: Dec., 2013
Date(s) of performance of tests	: Dec., 2013-Jan., 2014
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 Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	

Manufacturer's Declaration per sub-clause 6.2.5 of IEC60950-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided: Yes Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... :	<ol style="list-style-type: none"> 1 Tatung Mexico S.A. de. C.V. Ave. Rosa Ma. Fuentes #7050, Complejo Industrial Fuentes, C.P. 32320, Cd. Juarez. Chih, MEXICO 2 TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development, District of Economic Technological Development Zone, Wuhan City 430056, P.R. China 3 TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China 4 Envision Industry of Electronic Products Ltd. 895, Joao Marcos Pozzetti Street, Industrial District II, 69.075-215 Manaus, Am, Brazil 5 TPV Displays Polska Sp. z o.o. ul. Zlotego Smoka 9, 66-400 Gorzów Wlkp., Poland 6 Tatung Czech s.r.o. U Nove Hospody 4, 30100 Plzen, Czech Republic 7 Envision Industry of Electronic Products Ltd. Rodovia Anhanguera S/N-KM 49, 13.205-700 Tijuco Preto-Jundiaí-SP-Brazil 8 L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian 350301, P. R. China 9 Trend Smart CE Mexico S de RL de CV Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuans Baja California, MEXICO 10 TPV Display Technology (Beihai) Co., Ltd. China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China 11 Envision Industry of Electronic Products Ltd. Av Torquato Tapajós 7503, Galpão : II Bloco: B – Condomínio de Galpões – Tarumã - Manaus, AM, Brazil 12 TPV Technology (Qingdao) Co., Ltd. No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, P.R. China 13 TPV Display Technology (China) Co., Ltd No.106 Jinghai 3 Rd., BDA, Beijing City 100176 P.R. China
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General product information:
Description of change(s):

1. Add new mainboard 715G6124 which integrated VGA, DVI, HDMI, earphone out and audio in ports in one board;
2. Add another construction for mainboard 715G6124 which is identical with mainboard mentioned above except for additional DISPLAY port and port of external speaker. Construction contains two speakers (4ohm, 3W for each one).
3. Delete below factory
TPV Technology (Beijing) Co., Ltd.
No.10 Jiu xian qiao Rd., Chao yang District, Beijing 100016, P.R. China

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1	1.6.2	See table 1.6.2 in bold for mainboard 715G6124 without speakers. As the power consumption measured is lower than mainboard 715G6148, no additional test is required.
2	1.6.2, 2.10.2, 4.2.10, 4.5.2 and 5.3	--See table 1.6.2 in bold for mainboard 715G6124 with speakers. --After the working voltage (2.10.2) remeasured the required distances are not changed, so not required to remeasure the distance on the power board; --Due to the weight of EUT is slightly increased, the test force applied is higher for test of clause 4.2.10.
3	N/A	See factory list on page 5.

Definition of variable(s):

Variable:	Range of variable:	Content:
*	can be A-Z, a-z, 0-9, "+", "-", "/", "\" or blank	Represents different enclosure color and sales regions for marketing purpose only, no technical difference.

History of amendments and modifications:

Ref. No. 17034402 001, dated 24. Oct., 2013 (original report)

Ref. No. 17034402 002, dated 09. Jan., 2014 (1st modification)

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6	Power interface		P
1.6.1	AC power distribution systems	TN power system	P
1.6.2	Input current	(see appended table 1.6.2)	P
2.10.2	Determination of working voltage		P
2.10.2.1	General	The rms and the peak voltage were measured with unit connected to a 240V TN power system. The input neutral and secondary ground were connected during measurement. Pollution Degree 2 and Overvoltage Category II considered.	P
2.10.2.2	RMS working voltage	See table 2.10.2	P
2.10.2.3	Peak working voltage	See table 2.10.2	P
4.2	Mechanical strength		P
4.2.10	Wall or ceiling mounted equipment; force (N) :	An additional force 139.4N applied downwards through the centre of gravity of the equipment for 1 min after the removal of base (by client's request). After the test, the equipment was not damaged. (139.4N = 3 x 4.74 x 9.8N)	P
4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L :	Equipment loaded with rated output current.	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	Ventilation openings blocked, output of power supply board overloaded, no unaccepted overheating of parts (see appended table 5.3)	P
5.3.3	Transformers	(see appended Annex C and table 5.3)	P
5.3.7	Simulation of faults	(See appended table 5.3.)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	P
5.3.9.2	After the tests	No reduction of clearance and creepage distance. Electric strength test is made on basic, supplementary and reinforced insulation after test.	P

1.6.2	TABLE: electrical data (in normal conditions)						P
U(V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
Tested with panel M280HKJ (CHIMEI INNOLUX), VGA mode ^{a)}							
90V/50Hz	0.66	--	35.4	F901	0.66	Maximum normal load ^{2.}	
90V/60Hz	0.66	--	35.2	F901	0.66	Maximum normal load ^{2.}	
100V/50Hz	0.61	1.5	35.1	F901	0.61	Maximum normal load ^{2.}	
100V/60Hz	0.61	1.5	35.2	F901	0.61	Maximum normal load ^{2.}	
240V/50Hz	0.31	1.5	34.9	F901	0.31	Maximum normal load ^{2.}	
240V/60Hz	0.32	1.5	35.3	F901	0.32	Maximum normal load ^{2.}	
264V/50Hz	0.30	--	35.2	F901	0.30	Maximum normal load ^{2.}	
264V/60Hz	0.30	--	35.1	F901	0.30	Maximum normal load ^{2.}	
Tested with panel M280HKJ (CHIMEI INNOLUX), DVI mode ^{a)}							
90V/50Hz	0.67	--	36.6	F901	0.67	Maximum normal load ^{2.}	
90V/60Hz	0.67	--	36.4	F901	0.67	Maximum normal load ^{2.}	
100V/50Hz	0.63	1.5	36.5	F901	0.63	Maximum normal load ^{2.}	
100V/60Hz	0.62	1.5	36.2	F901	0.62	Maximum normal load ^{2.}	
240V/50Hz	0.32	1.5	36.0	F901	0.32	Maximum normal load ^{2.}	
240V/60Hz	0.33	1.5	35.9	F901	0.33	Maximum normal load ^{2.}	
264V/50Hz	0.30	--	35.7	F901	0.30	Maximum normal load ^{2.}	
264V/60Hz	0.31	--	35.6	F901	0.31	Maximum normal load ^{2.}	
Tested with panel M280HKJ (CHIMEI INNOLUX), HDMI mode ^{a)}							
90V/50Hz	0.68	--	37.9	F901	0.68	Maximum normal load ^{2.}	
90V/60Hz	0.67	--	37.6	F901	0.67	Maximum normal load ^{2.}	
100V/50Hz	0.63	1.5	37.4	F901	0.63	Maximum normal load ^{2.}	
100V/60Hz	0.62	1.5	37.7	F901	0.62	Maximum normal load ^{2.}	
240V/50Hz	0.33	1.5	36.9	F901	0.33	Maximum normal load ^{2.}	
240V/60Hz	0.34	1.5	37.1	F901	0.34	Maximum normal load ^{2.}	
264V/50Hz	0.31	--	37.3	F901	0.31	Maximum normal load ^{2.}	
264V/60Hz	0.32	--	37.1	F901	0.32	Maximum normal load ^{2.}	
Tested with panel M280HKJ (CHIMEI INNOLUX), DISPLAY mode ^{a)}							
90V/50Hz	0.67	--	37.8	F901	0.67	Maximum normal load ^{2.}	
90V/60Hz	0.67	--	37.5	F901	0.67	Maximum normal load ^{2.}	
100V/50Hz	0.62	1.5	37.2	F901	0.62	Maximum normal load ^{2.}	
100V/60Hz	0.62	1.5	37.1	F901	0.62	Maximum normal load ^{2.}	
240V/50Hz	0.33	1.5	36.6	F901	0.33	Maximum normal load ^{2.}	
240V/60Hz	0.33	1.5	36.9	F901	0.33	Maximum normal load ^{2.}	

264V/50Hz	0.30	--	37.3	F901	0.30	Maximum normal load ²
264V/60Hz	0.31	--	37.2	F901	0.31	Maximum normal load ²
Tested with panel M280HKJ (CHIMEI INNOLUX), VGA mode ^{b)}						
90V/50Hz	0.51	--	31.7	F901	0.51	Maximum normal load ¹
90V/60Hz	0.50	--	31.7	F901	0.50	Maximum normal load ¹
100V/50Hz	0.47	1.5	31.5	F901	0.47	Maximum normal load ¹
100V/60Hz	0.46	1.5	31.5	F901	0.46	Maximum normal load ¹
240V/50Hz	0.23	1.5	31.0	F901	0.23	Maximum normal load ¹
240V/60Hz	0.23	1.5	31.0	F901	0.23	Maximum normal load ¹
264V/50Hz	0.22	--	31.2	F901	0.22	Maximum normal load ¹
264V/60Hz	0.21	--	31.1	F901	0.21	Maximum normal load ¹
Tested with panel M280HKJ (CHIMEI INNOLUX), DVI mode ^{b)}						
90V/50Hz	0.52	--	32.3	F901	0.52	Maximum normal load ¹
90V/60Hz	0.51	--	32.3	F901	0.51	Maximum normal load ¹
100V/50Hz	0.47	1.5	32.3	F901	0.47	Maximum normal load ¹
100V/60Hz	0.47	1.5	32.2	F901	0.47	Maximum normal load ¹
240V/50Hz	0.23	1.5	31.7	F901	0.23	Maximum normal load ¹
240V/60Hz	0.23	1.5	31.6	F901	0.23	Maximum normal load ¹
264V/50Hz	0.22	--	31.7	F901	0.22	Maximum normal load ¹
264V/60Hz	0.22	--	31.8	F901	0.22	Maximum normal load ¹
Tested with panel M280HKJ (CHIMEI INNOLUX), HDMI mode ^{b)}						
90V/50Hz	0.52	--	32.2	F901	0.52	Maximum normal load ¹
90V/60Hz	0.51	--	32.2	F901	0.51	Maximum normal load ¹
100V/50Hz	0.47	1.5	32.1	F901	0.47	Maximum normal load ¹
100V/60Hz	0.47	1.5	32.0	F901	0.47	Maximum normal load ¹
240V/50Hz	0.24	1.5	31.5	F901	0.24	Maximum normal load ¹
240V/60Hz	0.23	1.5	31.5	F901	0.23	Maximum normal load ¹
264V/50Hz	0.22	--	31.6	F901	0.22	Maximum normal load ¹
264V/60Hz	0.22	--	31.6	F901	0.22	Maximum normal load ¹
Tested with panel M280HKJ (CHIMEI INNOLUX), VGA mode ^{c)}						
90V/50Hz	0.72	--	39.3	F901	0.72	Maximum normal load ¹
90V/60Hz	0.72	--	39.3	F901	0.72	Maximum normal load ¹
100V/50Hz	0.67	1.5	38.8	F901	0.67	Maximum normal load ¹
100V/60Hz	0.67	1.5	38.8	F901	0.67	Maximum normal load ¹
240V/50Hz	0.38	1.5	38.4	F901	0.38	Maximum normal load ¹
240V/60Hz	0.38	1.5	38.4	F901	0.38	Maximum normal load ¹

264V/50Hz	0.36	--	38.5	F901	0.36	Maximum normal load ^{1.}
264V/60Hz	0.36	--	38.5	F901	0.36	Maximum normal load ^{1.}
Tested with panel M280HKJ (CHIMEI INNOLUX), DVI mode ^{c)}						
90V/50Hz	0.72	--	39.0	F901	0.72	Maximum normal load ^{1.}
90V/60Hz	0.72	--	39.0	F901	0.72	Maximum normal load ^{1.}
100V/50Hz	0.66	1.5	38.6	F901	0.66	Maximum normal load ^{1.}
100V/60Hz	0.66	1.5	38.6	F901	0.66	Maximum normal load ^{1.}
240V/50Hz	0.38	1.5	38.3	F901	0.38	Maximum normal load ^{1.}
240V/60Hz	0.38	1.5	38.3	F901	0.38	Maximum normal load ^{1.}
264V/50Hz	0.35	--	38.4	F901	0.35	Maximum normal load ^{1.}
264V/60Hz	0.35	--	38.4	F901	0.35	Maximum normal load ^{1.}
Supplementary information: ^{a)} with mainboard 715G6124 with speakers unit, ^{b)} with mainboard 715G6124 without speakers unit, ^{c)} with mainboard 715G6148, data from previous CB report 17034402 001.						
<ol style="list-style-type: none"> 1. Operated under 100% brightness, 100% contrast, full white screen and optimal resolution@60Hz, which consumed maximum output power. 2. Operated under 100% brightness, 100% contrast, full white screen and optimal resolution@60Hz, which consumed maximum output power, speakers were loaded with 1KHz sinusoidal signal and turned to maximum volume. 3. Panel M280HKJ (CHIMEI INNOLUX) chosen for the tests, due to higher power consumption specified in panel specification than other panels. 						

2.10.2	Table: working voltage measurement			P
Location	Peak voltage (V)	RMS voltage (V)	Comments	
T901A: Pin 1 to pin 7,8	352	216	--	
T901A: Pin 1 to pin 9,10	342	212	--	
T901A: Pin 1 to pin 11,12	362	214	--	
T901A: Pin 3 to pin 7,8	436	218	--	
T901A: Pin 3 to pin 9,10	468	219	--	
T901A: Pin 3 to pin 11,12	392	217	--	
T901A: Pin 4 to pin 7,8	376	217	--	
T901A: Pin 4 to pin 9,10	350	217	--	
T901A: Pin 4 to pin 11,12	436	218	--	
T901A: Pin 6 to pin 7,8	484	254	--	
T901A: Pin 6 to pin 9,10	492	258	Max Vrms & Vpeak	
T901A: Pin 6 to pin 11,12	468	240	--	
IC902 Pin1-3	352	214	--	
IC902 Pin1-4	352	213	--	
IC902 Pin2-3	352	214	--	
IC902 Pin2-4	352	213	--	

C900 primary pin – secondary pin	342	212	--
Note(s): Input Voltage is 240Vac, 50Hz			

4.5	TABLE: maximum temperatures			P	
	test voltage (V)	a) 90V/60Hz, b) 264V/50Hz		—	
	t1 (°C)	--		—	
	t2 (°C)	--		—	
Maximum temperature T of part/at:		T (°C)	allowed T _{max} (°C)		
Tested with panel M280HKJ (CHIMEI INNOLUX), HDMI mode					
Test voltage	a)	b)	--		
Line pin of AC Inlet CN901 (on power board)	31.2	30.4	53.2		
PCB near NR901 (on power board)	41.2	36.3	88.2		
C902 body (on power board)	37.0	34.0	68.2		
C900 body (on power board)	35.5	33.8	68.2		
C908 body (on power board)	40.9	36.6	68.2		
L901 coil (on power board)	51.9	43.5	88.2		
PCB near BD901 (on power board)	52.1	41.5	88.2		
C907 body (on power board)	45.0	40.4	88.2		
PCB near Q901 (on power board)	58.7	58.3	88.2		
T901A coil (on power board)	65.2	65.2	93.2		
T901A core (on power board)	63.1	63.1	93.2		
PCB near IC902 (on power board)	58.7	58.3	88.2		
PCB near D901 (on power board)	56.3	58.2	88.2		
PCB near L801 (on power board)	58.9	58.6	88.2		
PCB near U801 (on power board)	52.1	52.3	88.2		
PCB near U401 (on main board)	50.6	50.1	88.2		
Panel surface	24.2	24.9	78.2		
Metal	23.8	24.3	53.2		
Plastic enclosure outside	28.9	29.2	43.2		
Plastic enclosure inside near T901A	31.4	31.6	--		
Ambient	23.2	23.2	--		
Temperature T of winding:	R ₁ (Ω)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class

Note(s):

1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
2. With a specified ambient temperature of 40°C, and the minimum ambient temperature during test Tam, Temperature is calculated as follows:

Winding components providing safety isolation:

- T901A, Class B → $T_{max} = 120^{\circ}\text{C} - 10^{\circ}\text{C} - 40^{\circ}\text{C} + 23.2 = 93.2^{\circ}\text{C}$.

Components with maximum absolute temperature of others:

- $T_{max} = T_{max} \text{ of component} - 40 + T_{amb}$.

5.3		TABLE: Fault condition tests					P
		Ambient temperature (°C)			See below		—
		Power source for EUT: Manufacturer, model/type, output rating			--		—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
Tested with panel M280HKJ (CHIMEI INNOLUX), DISPLAY mode							
Ventilation openings	blocked	240	4.5hours	F901	0.34	Unit operated normally, no hazards, no damage. After temperature reached stable, max. measured temp. in T901A coil = 67.5°C, T901A core = 65.4°C, IC902 = 60.6°C, ambient = 23.2°C	
Speaker	s-c	240	2hours	F901	0.34	No sound output, no hazards, no damage. Max. measured temp. in T901A coil = 63.1°C, T901A core = 61.1°C, IC902 = 55.9°C, ambient = 22.9°C	
Supplementary information:							
<ol style="list-style-type: none"> 1. The unit passed 3000V hi-pot test between primary and accessible output connector after single fault test above. 2. In fault column, where o-l = overload, s-c = short circuit. 3. For fuse opened conditions were tested with each source of fuse. 4. Temp. limit of transformer according to table C.1 is $175^{\circ}\text{C} - 10 - (40^{\circ}\text{C} - 22.9) = 147.9^{\circ}\text{C}$ for Class B. 							

Product: LCD Monitor

Type Designation: 280LM000**, *2870*****



Figure 1 Metal enclosure with mainboard 715G6124 (without speakers)



Figure 2 Metal enclosure with mainboard 715G6124 (with speakers)

Product: LCD Monitor
Type Designation: 280LM000**, *2870*****

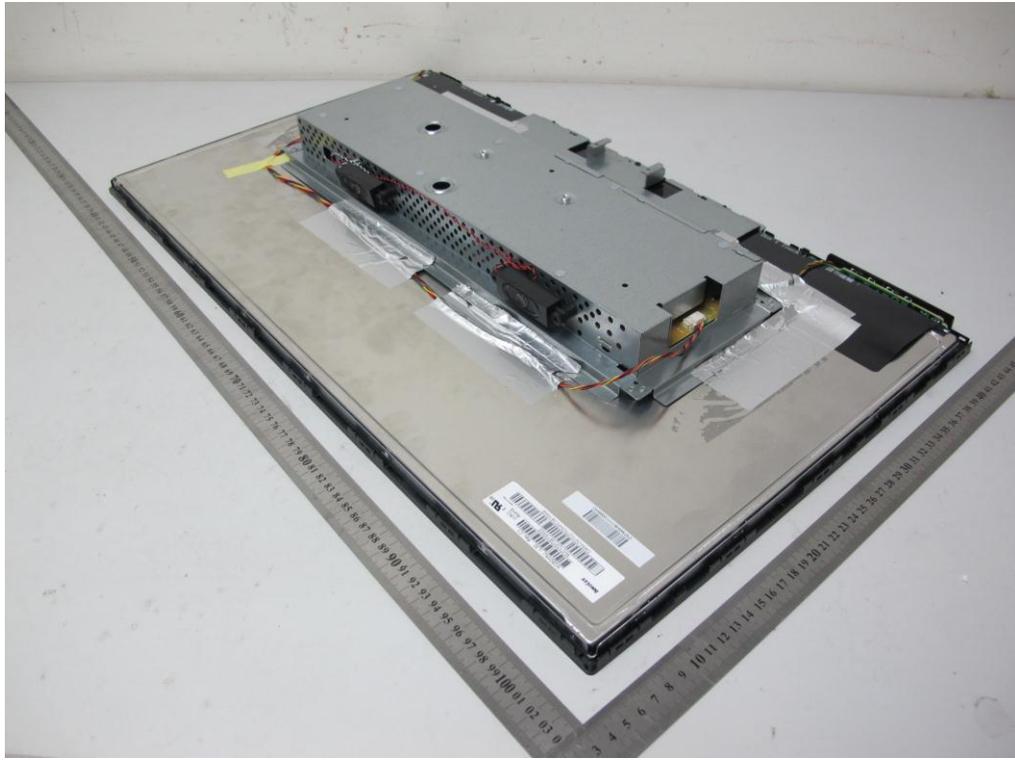


Figure 3 Metal enclosure with mainboard 715G6124 (with speakers)

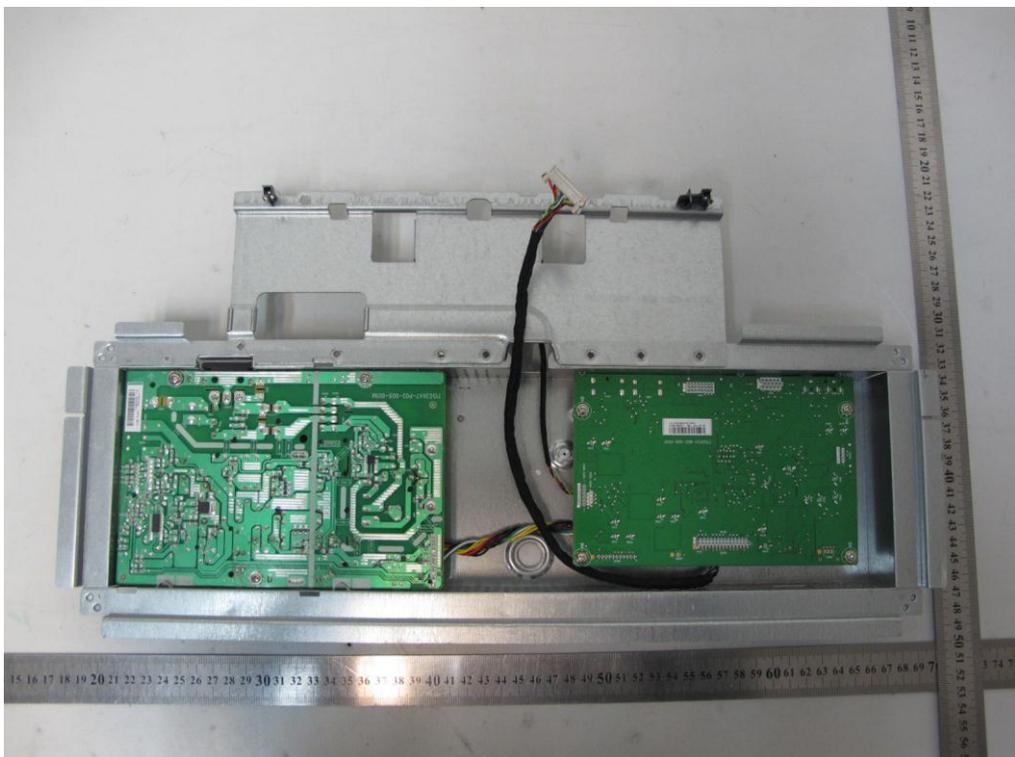


Figure 4 Internal view of metal enclosure with mainboard 715G6124

Product: LCD Monitor

Type Designation: 280LM000**, *2870*****

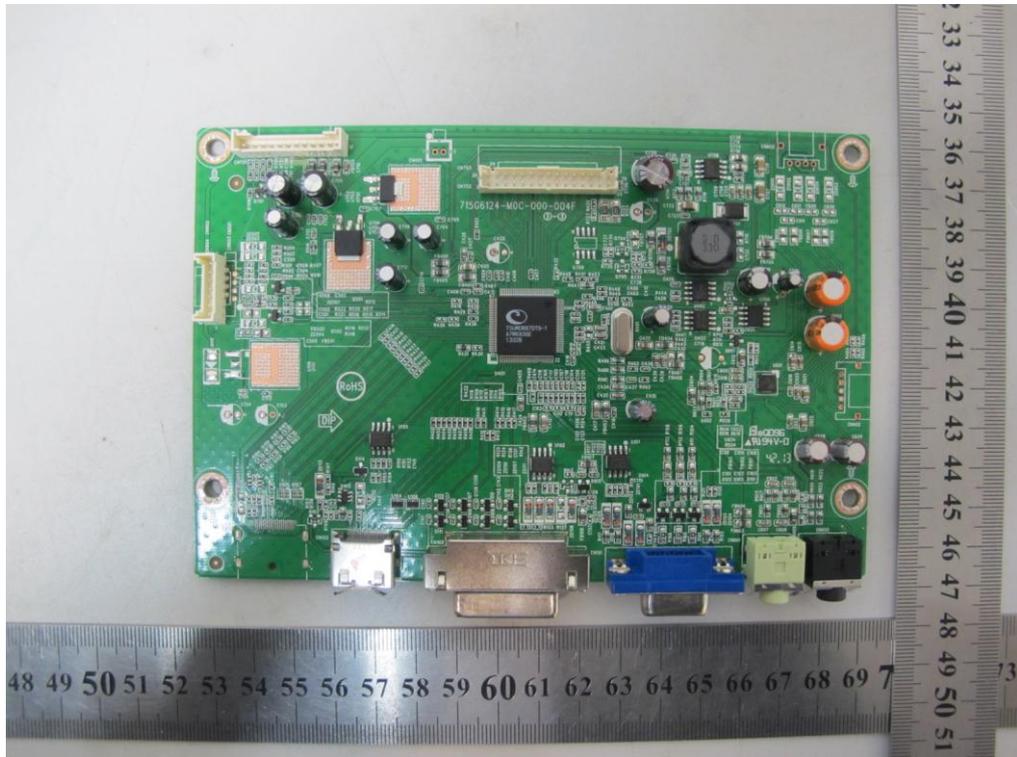


Figure 5 Main board 715G6124 without Display port

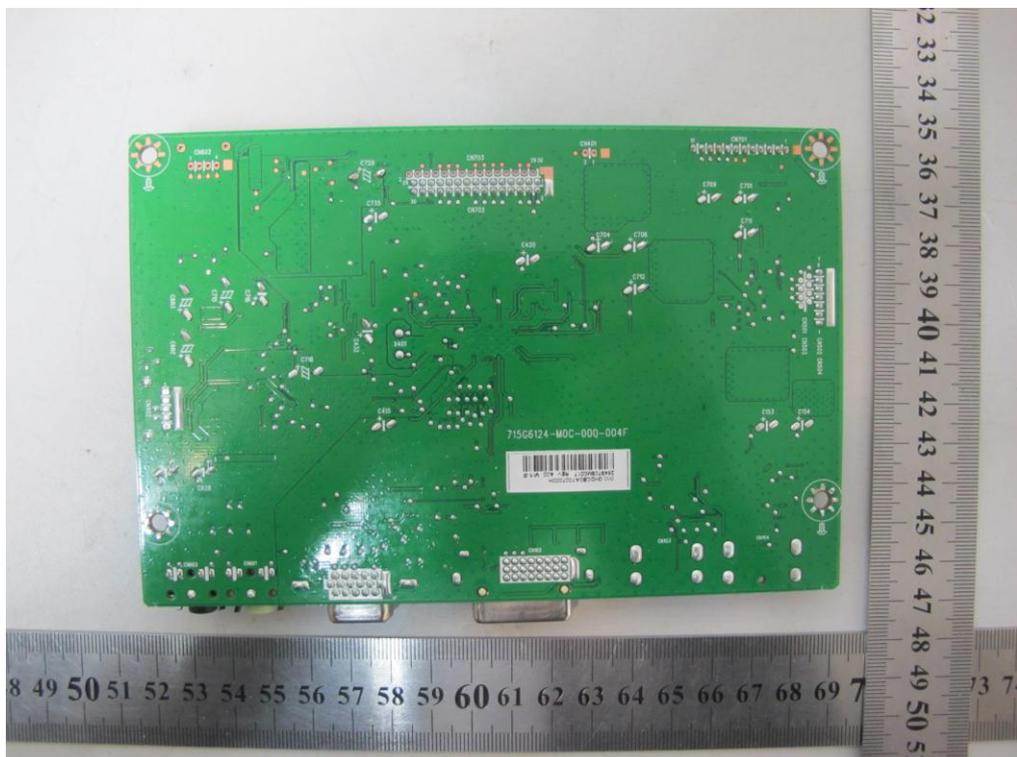


Figure 6 Main board 715G6124 without Display port

Product: LCD Monitor

Type Designation: 280LM000**, *2870*****

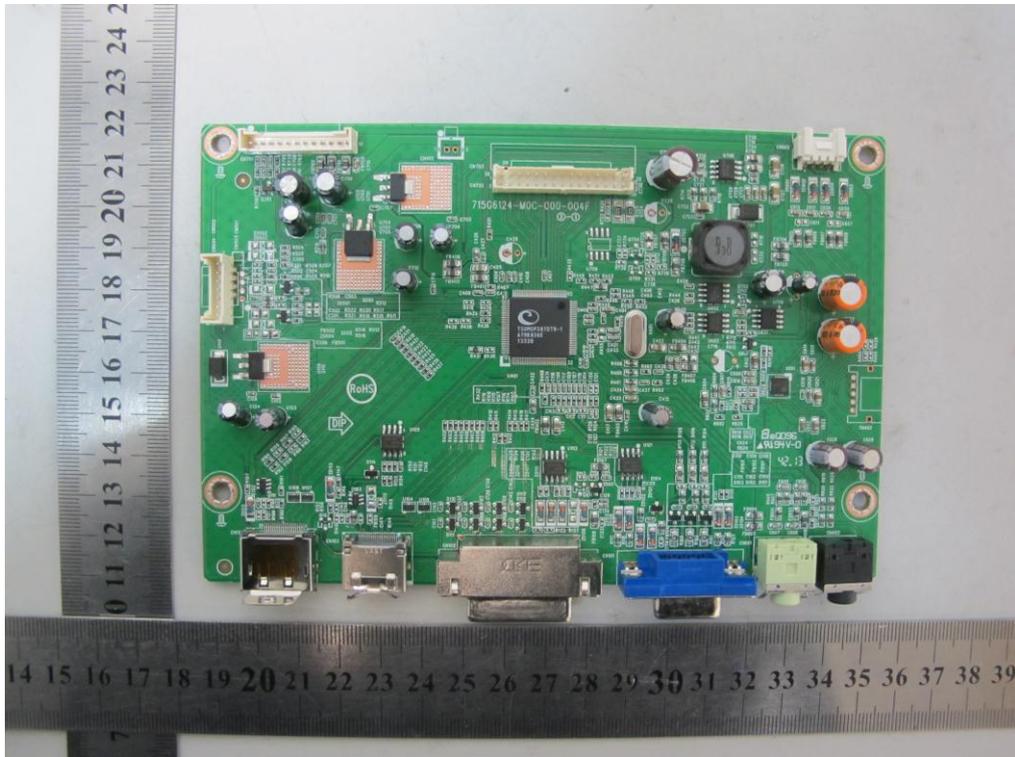


Figure 7 Main board 715G6124 with Display port

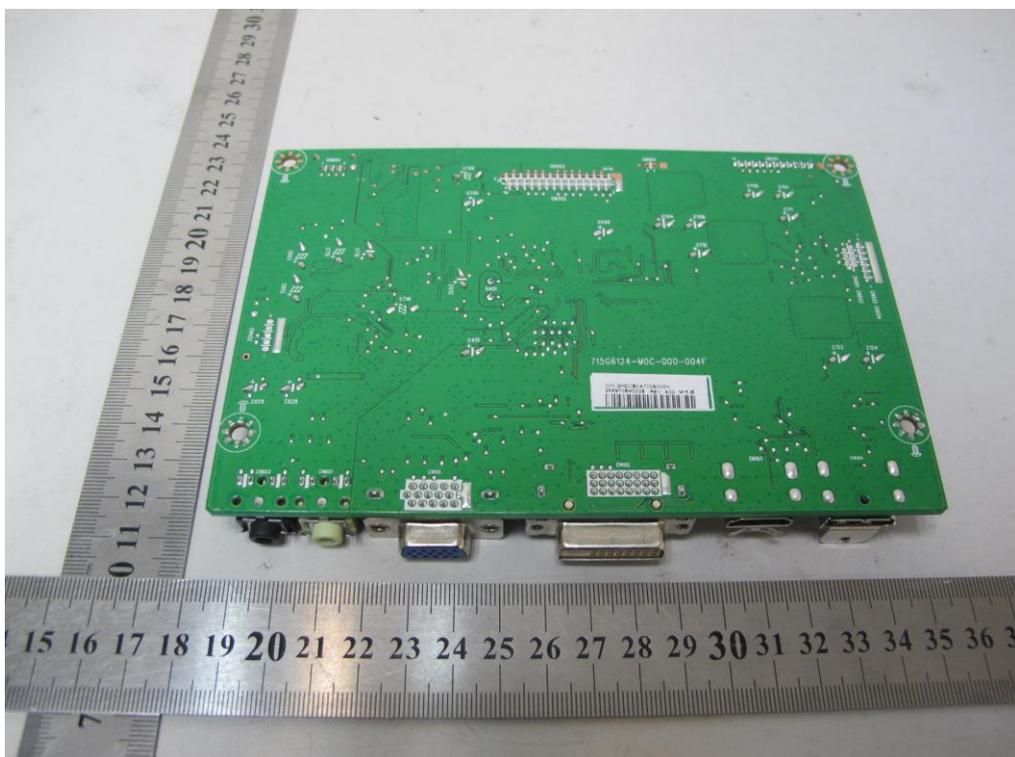


Figure 8 Main board 715G6124 with Display port