

JPTUV-048535-M3

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Ratings and principal characteristics Valeurs nominales et charactéristiques principales

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

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

Model / Type Ref. Ref. de type

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire,

peuvent être indiqués sur la 2ème 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 la

As 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

LCD Monitor

Top Victory Electronics (Taiwan) Co., Ltd. 10F., No. 230, Liancheng Rd. Zhonghe Dist., New Taipei City, 23553 Taiwan

TPV Display Technology (China) Co., Ltd. No. 106 Jinghai 3 Rd., BDA Beijing City 100176, P.R. China

See additional page(s)

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

AOC

N/A

236LM000**, *2460****, 240LM000** (* = A-Z, a-z, 0-9, +, -, \, / or blank)

For model differences, refer to the test report. Re-issue of JPTUV-048535-M2 dated 18.07.2013, due to third modification.

IEC 60950-1:2005+A1
National differences see test report

17028332 004

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



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Fax + 81 45 914-3354 Mail: info@jpn.tuv.com Web: www.tuv.com

Signature:

Ing. M. Eichenseder

Date:

19.11.2013

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- Tatung Mexico S.A. de. C.V. Ave. Rosa Ma. Fuentes #7050 Complejo Industrial Fuentes C.P. 32320, Cd. Juarez. Chih, MEXICO
- TPV Display Technology (Wuhan)
 Co., Ltd.
 Unique No. 11, Zhuankou Development
 District of Economic Technological
 Development Zone, Wuhan City 430056, P.R. China
- TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian Province P.R. China
- Envision Industry of Electronic Products Ltd.
 Joao Marcos Pozzetti Street, Industrial District II,
 709.075-215 Manaus, Am, Brazil
- Envision Industry of Electronic Products Ltd.
 Rodovia Anhanguera S/N-KM 49 13.205-700 Tijuco Preto-Jundiaí-SP-Brazil
- TPV Displays Polska Sp. z o.o. ul. Zlotego Smoka 9 66-400 Gorzów Wikp. Poland
- L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, Fujian 350301, P.R. China
- 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
- Envision Industry of Electronic Products Ltd.
 Av Torquato Tapajós 7503, Galpão: Il Bloco: B-Condomínio de Galpões-Tarumã-Manaus, AM, Brazil

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

Report Ref. No.: 17028332 004

Date: 19.11.2013

Signature:

Ing. M. Eichenseder



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TPV Technology (Qingdao)
 Co., Ltd.
 No.99 Huoju Road, High-tech
 Industrial Development Zone
 Qingdao City, Shandong Province, P.R. China

 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.: 17028332 004

Date: 19.11.2013

Signature:

Ing. M. Eichenseder



Test Report issued under the responsibility of:



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

 Report Number.
 17028332 004

 Date of issue.
 19 Nov., 2013

 Total number of pages
 13 pages

CB Testing Laboratory...... TÜV Rheinland (Shenzhen) Co., Ltd.

South, 5th Industrial Area, High-Tech Industry Park North,

Nanshan District, 518057, Shenzhen, P.R. China

Applicant's name...... Top Victory Electronics (Taiwan) Co., Ltd.

23553 Taiwan

Manufacturer's name...... TPV Display Technology (China) Co., Ltd.

Test specification:

Standard IEC 60950-1:2005 (Second Edition) + Am 1:2009

Test procedure: CB Scheme

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

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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

definition of *)

Ratings I/P: 100-240Vac, 50/60Hz, 1.5A

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Testi	Testing procedure and testing location:					
	CB Testing Laboratory:	TÜV Rheinland (Shenz	hen) Co., Ltd.			
Testi	ng 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				
	Associated CB Laboratory:	N/A				
Testi	ng location/ address	N/A				
	Tested by (name + signature):	Andrew Zhu	Indrew 2hm			
	Approved by (name + signature):	Paddy Qiu	Paddy O.			
	Testing procedure: TMP	N/A				
Testi	ng location/ address:	N/A				
	Tested by (name + signature) Approved by (name + signature)					
	Testing procedure: WMT	N/A				
Testi	ng location/ address:	N/A				
	Tested by (name + signature)					
	Witnessed by (name + signature):					
	Approved by (name + signature):					
	Testing procedure: SMT	N/A				
Test	ing location/ address	N/A				
	Tested by (name + signature)					
	Approved by (name + signature):					
	Supervised by (name + signature):					
	Testing procedure: RMT	N/A				
Test	ing 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:

Tests performed (name of test and test clause):

Following tests performed during evaluation

name of test	test clause number
Input Current Test	1.6.2
Steady Force Test, 250N	4.2.4
Impact Test (Steel Ball)	4.2.5
Stress relief test	4.2.7
Maximum Temperature Test	4.5.2
Openings in enclosures	4.6
Fault Condition Test	5.3

Testing location:

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

Note: All tests were performed on the combination with Panel M240HVN** (AUO), with power board: **715G5361 type D**, main board: **715G6124**.

Summary of compliance with National Differences

See the original report 17028332 003.

Copy of marking plate

See the original report 17028332 001.

Test item particulars	
Equipment mobility:	[x] movable (for unit with base stand) [] hand-held [] transportable [x] stationary (for unit without base stand) [] for building-in [] direct plug-in
Connection to the mains:	[x] pluggable equipment [x] type A [] type B [] permanent connection [x] detachable power supply cord [] non-detachable power supply cord [] not directly connected to the mains
Operating condition:	[x] continuous [] rated operating / resting time:
Access location:	[x] operator accessible [] restricted access location
Over voltage category (OVC):	[] OVC I [x] OVC II [] OVC III [] OVC IV [] other:
Mains supply tolerance (%) or absolute mains supply values:	±10% (requested by client)
Tested for IT power systems	[] Yes [x] No
IT testing, phase-phase voltage (V):	
Class of equipment:	[x] Class I [] Class II [] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	16A (20A for CA and US)
Pollution degree (PD):	[] PD 1 [x] PD 2 [] PD 3
IP protection class:	IPX0
Altitude during operation (m):	•
Altitude of test laboratory (m):	Less than 2000
Mass of equipment (kg):	Approx. 6.5 kg (for unit with stand base type A), 2.27 kg for base stand type A
	Approx. 4.58 kg (for unit with stand base type B), 0.35 kg for base stand type B
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:	Nov.2013
Date(s) of performance of tests:	Nov.2013



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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 comma / point is used as the decimal separator.				
Throughout this report a comma / point is use	u as the decimal separator.			
Manufacturer's Declaration per sub-clause 6.2.5 o	of IECEE 02:			
The application for obtaining a CB Test Certificate	⊠ Yes			
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				
When differences exist; they shall be identified in the	General product information section.			

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Name and address of factory (ies)	1.	Tatung Mexico S.A. de. C.V. Ave. Rosa Ma. Fuentes #7050 Complejo Industrial Fuentes C.P. 32320, Cd. Juarez.
	2	Chih, MEXICO TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone,
	3	Wuhan City 430056,P.R. China 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	Envision Industry of Electronic Products Ltd Rodovia Anhanguera S/N-KM 49, 13.205-700 Tijuco Preto-Jundiaí-SP-Brazil
	6	TPV Displays Polska Sp. z o.o. ul. Zlotego Smoka 9, 66-400 Gorzów Wlkp, Poland
	7	L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian 350301, P.R. China
	8	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
	9	Envision Industry of Electronic Products Ltd. Av Torquato Tapajós 7503, Galpão : II Bloco: B – Condomínio de Galpões – Tarumã - Manaus, AM, Brazil
	10	TPV Technology (Qingdao) Co., Ltd. No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, P.R. China
	11	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 one alternative main board 715G6124 with DP, VGA and DVI ports.
- 2. Add one alternative design of plastic enclosure which was defined as Type B and the original one is Type A. Type B is identical to Type A, except enclosure shape.
- 3. Add one alternative power board **715G5361 type D**, which is identical to 715G5361 type A except that **715G5361 type D** without secondary connector (CN903).
- 4. Change the manufacturer name from "TPV Technology (Beijing) Co., Ltd." to "TPV Display Technology (China) Co., Ltd.". And Change the manufacturer's address from "No.10, Jiu Xian Qiao Rd., Chao Yang District, Beijing 100016, P.R. China" to "No.106 Jinghai 3 Rd., BDA, Beijing City 100176, P.R. China.".
- 5. Delete the factory "TPV Technology (Beijing) Co., Ltd." in the report.
- 6. Change address of factory "TPV Electronics (Fujian) Co., Ltd." from "Yuan Hong Rd., Shang-Zheng Hong-Lu Fuqing City Fujian 350301 P.R. China" to "Shangzheng, Yuan Hong Road Fuqing City, Fujian Province P.R. China".

See below table for construction details:

Product model name	Power board model	Main board model	Plastic enclosure	Base type	Optional Negative ion generator	USB board	
	715G5361 type A	715G5436	Type A	Type A, Type B	Yes	Yes Yes	
236LM000**,	715G5361 type B	715G5270	Type A	Type A, Type B	No	No	
*2460****, 240LM000**	715G5361 type C	715G5121	Type A	Type A, Type B	No	Yes	
	715G5361 type D	715G6124	Type B	Type A, Type B	No	No	

Definition of variable(s):

Variable:	Range of variable:	Content:
*	can be A-Z, a-z,0-9, +, -, \ , /, blank	Represent color difference and sales region difference, no constructional difference.

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For the above described change(s) the following was considered to be necessary:				
Change	Testing	Comments		
1.	Input test Maximum Temperature Test Fault Condition Test (block opening)	Details see clause 1.6, 4.5.2, 5.3 and appended tables 1.6.2, 4.5.2 and 5.3.		
2.	Steady Force Test, 250N Impact Test (Steel Ball) Stress relief test Openings in enclosure	Details see clause 4.2.4, 4.2.5, 4.2.7 and appended tables 4.6.		
3.	No additional test required	N/A		
4.	No additional test required	N/A		
5.	No additional test required	N/A		
6.	No additional test required	N/A		

History of amendments and modifications:

Refer to 17028332 001, date 14 Dec., 2012 (original report)

Refer to 17028332 002, date 04 Mar., 2013 (1st modification)

Refer to 17028332 003, date 16 Jul., 2013 (2nd modification)

Refer to 17028332 004, date 19 Nov., 2013 (3rd modification)

Abbreviations used in the report:

 normal conditions functional insulation double insulation between parts of opposite polarity 	N.C. OP DI BOP	single fault conditionsbasic insulationsupplementary insulationreinforced insulation	S.F.C BI SI RI	
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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
1.6	Power interface		P
1.6.1	AC power distribution systems	TN power system	Р
1.6.2	Input current	(see appended table 1.6.2)	Р
4.2	Mechanical strength		P
4.2.4	Steady force test, 250 N Test performed on plastic enclosure for all material sources, no hazardous.		
4.2.5	Impact test	500g steel ball falls freely from 1.3m on top, back and bottom of plastic enclosure, no access to hazardous parts.	Р
	Fall test		Р
	Swing test		N/A
4.2.7	Stress relief test	70°C, 7 hours, no deformation on all sources of plastic enclosure.	Р
4.5	Thermal requirements		P
4.5.1	General	No parts exceeding temperature limits.	Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L:	Equipment loaded with rated output current.	_
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.6	Openings in enclosures		Р
4.6.1	Top and side openings	No hazardous parts or energy within a vertical projection of 5°.	Р
	Dimensions (mm):	(see appended table 4.6.1 and 4.6.2)	_
5.3	Abnormal operating and fault conditions		P
5.3.1	Abnormal operating and fault conditions Protection against overload and abnormal (see appended table 5.3)		P

Motors not used.

N/A

TRF No. IEC60950_1C

5.3.2

operation Motors

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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.3.3	Transformers	(see original report 17028332 001 appended table 5.3 and Annex C)	Р
5.3.4	Functional insulation: By short-circuited, results see appended table 5.3 of original test report 17028332 001.		Р
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Audio amplifiers in ITE		N/A
5.3.7	Simulation of faults	(see appended table 5.3.)	Р
5.3.8	Unattended equipment	No such equipment.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions		Р
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	Р
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: Electi	rical data (in	normal condit	ions)			Р
Fuse #	U (V)	I (A)	Irated (A)	P (W)	Ifuse (A)	Conditio	n/status
Test on mo	odel *2460**** w	ith power bo	oard 715G5361	type D and	main boar	d 715G6124, \	/GA mode
F901	90V/50Hz	0.55		32.0	0.55	Normal load	condition
F901	90V/60Hz	0.58		31.9	0.58	Normal load	condition
F901	100V/50Hz	0.50	1.5	31.7	0.50	Normal load	condition
F901	100V/60Hz	0.53	1.5	31.8	0.53	Normal load	condition
F901	240V/50Hz	0.25	1.5	31.9	0.25	Normal load	condition
F901	240V/60Hz	0.28	1.5	31.8	0.28	Normal load	condition
F901	264V/50Hz	0.24		32.0	0.24	Normal load	condition
F901	264V/60Hz	0.25		31.9	0.25	Normal load	condition
Test on mo	odel *2460**** w	ith power bo	oard 715G5361	type D and	main boar	d 715G6124, I	DVI mode
F901	90V/50Hz	0.54		31.6	0.54	Normal load	condition
F901	90V/60Hz	0.56		31.1	0.56	Normal load	condition
F901	100V/50Hz	0.49	1.5	31.2	0.49	Normal load	condition
F901	100V/60Hz	0.51	1.5	31.5	0.51	Normal load	condition
F901	240V/50Hz	0.25	1.5	31.0	0.25	Normal load	condition
F901	240V/60Hz	0.26	1.5	31.1	0.26	Normal load	condition
F901	264V/50Hz	0.23		32.0	0.23	Normal load	condition
F901	264V/60Hz	0.25	-	32.0	0.25	Normal load	condition
Test on mo	odel *2460**** w	ith power bo	oard 715G5361	type D and	main boar	d 715G6124, I	DP mode
F901	90V/50Hz	0.54		31.9	0.54	Normal load	condition
F901	90V/60Hz	0.56		31.8	0.56	Normal load	condition
F901	100V/50Hz	0.49	1.5	31.8	0.49	Normal load	condition
F901	100V/60Hz	0.52	1.5	31.7	0.52	Normal load	condition
F901	240V/50Hz	0.25	1.5	31.9	0.25	Normal load	condition
F901	240V/60Hz	0.26	1.5	31.5	0.26	Normal load	condition
F901	264V/50Hz	0.23		31.7	0.23	Normal load	condition
F901	264V/60Hz	0.25		32.0	0.25	Normal load	condition

Note(s):

^{1.} Operated under 100% brightness, 100% contrast, full white screen, speaker output with max. non-clipped output power and optimal resolution@60Hz.

^{2.} Tested with panel: Panel M240HVN** (AUO), due to it has the highest power consumption declared in specification. See the original report for detail.

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4.5	TABLE: maximum temperatures					
	test voltage (V)	b) 90V/6	60 Hz (Ho 60 Hz (Ve /60 Hz (V	_		
	t1 (°C)			_		
	t2 (°C)			_		
Maximum measured temperature T of part/at::				Allowed Tmax (°C)		
Unit teste	ed with power board 715G5361 type D, main	board 715G	6124.			
Test cond	lition	a)	b)	c)		
1. AC inle	t near L pin	36.3 36.3 34.1 70				
2. PCB ne	ear NR901	56.6	55.6	48.3	105-40+25.4=90.4	
3. C908 b	ody	47.5	46.8	42.2	85-40+25.4=70.4	
4. L901 co	oil	53.1	52.3	44.0	105-40+25.4=90.4	
5. PCB ne	ear BD901	53.7	53.4	46.4	105-40+25.4=90.4	
6. C907 b	ody	45.2	46.2	43.5	105-40+25.4=90.4	
7. PCB ne	ear Q901	55.3	59.5	58.0	105-40+25.4=90.4	
8. IC902 I	body	53.1	56.0	52.2	100-40+25.4=85.4	
9. T901 c	oil	66.3	67.3	70.6	110-40+25.4=95.4	
10. T901 core			66.7	68.6	110-40+25.4=95.4	
11. PCB near D901			57.8	64.2	105-40+25.4=90.4	
12. PCB r	near U401 (main board)	50.7	53.2	50.7	105-40+25.4=90.4	
13. Plasti	3. Plastic enclosure inside near T901		34.7	31.3		
14. Plasti	c enclosure outside near T901	33.2	33.3	29.0	95-40+25.4=80.4	
15. Panel	15. Panel body		34.5	35.8	95-40+25.4=80.4	
16. Ambient			26.5	25.4		

Supplementary information:

- 1. The temperatures were measured under worst normal mode defined in 1.2.2.1 and as described in summary of testing and at voltages as described above.
- 2. With maximum ambient temperature declared at 40°C, and the minimum ambient temperature during all tests is 25.4 °C, the max. Temperature is calculate d as follows:

Winding components (with safety isolation):

- Class B \rightarrow Tmax = 120°C 10°C 40°C + 25.4
- 3. Components with maximum absolute temperature of others:
- Tmax = Tmax of component 40°C + 25.4

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Temperature T of winding:	t₁ (℃)	R ₁ (Ω)	t ₂ (℃)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
Supplementary information:							

4.6.1, 4.6.2	Table: encl	osure openings	Р			
Location		Size (mm)	Comments			
External Plastic	enclosure					
Тор		Max. 2.5 by 2.3 to min. 5.6 by 2.1	Numerous rectangular openings provided.			
Others		None	No any openings.			
External plastic	enclosure at	vertical orientation				
Right		Max. 2.5 by 2.3 to min. 5.6 by 2.1	Numerous rectangular openings provided, which were covered by external plastic enclosure.			
Others		None	No any openings.			
Note(s): Measure	ed on Type B	plastic enclosure.				

5.3	TABLE: Fault condition tests						Р	
	Ambient temperature (°C)					_		
	Power source for EUT: ManuFacturer, model/type, output rating					_		
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)			
Test orientation: Vertical								
Ventilation opening	Blocked	264	1hr 29mins	F901	0.25	Unit normal operate Max. temperature: T901 coil = 71.7℃, T901 core = 68.3℃, ambient=26.8℃, no damaged, no hazards.		

- Supplementary information:
 1). The temperature limit for Class B transformer T901 under single fault condition is
 - 175-10-40+Tamb = Min. 151.8℃
- 2). Unit passed the electric strength tests after each fault condition test.





Fig. 1_Front view with type B plastic enclosure



Fig. 2_Front view with type B plastic enclosure



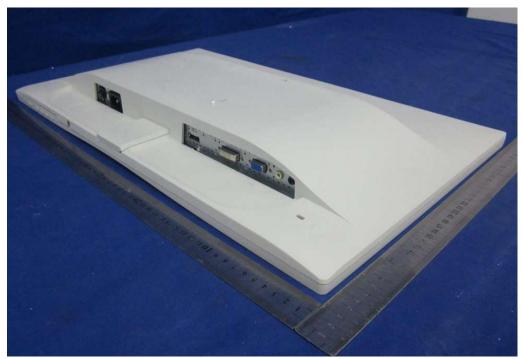


Fig. 3_Rear view with type B plastic enclosure

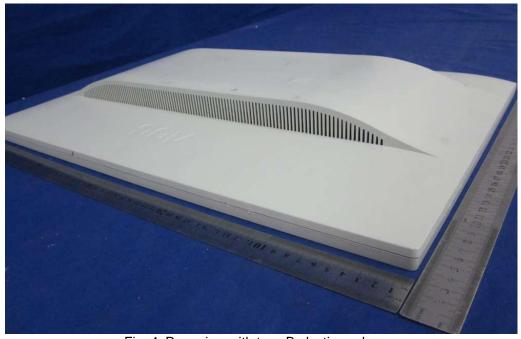


Fig. 4_Rear view with type B plastic enclosure





Fig. 5_Power board component side (Type D)

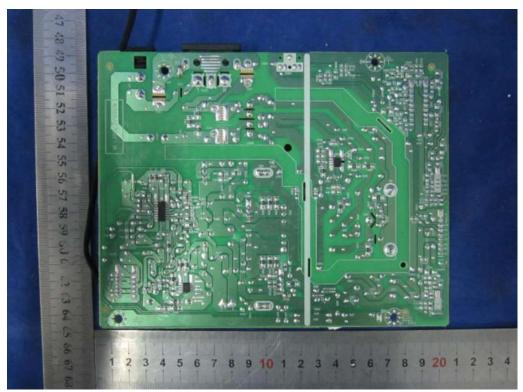


Fig. 6_Power board trace side (Type D)





Fig. 7_Main board component side (Model: 715G6124)



Fig. 8_Main board trace side (Model: 715G6124)