



Ref. Certif. No.

JPTUV-042055-A1/M2

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

LCD Monitor

Name and address of the applicant
Nom et adresse du demandeur

TPV Technology (Beijing) Co., Ltd.
No. 10, Jiu Xian Qiao Rd.
Chao Yang District, Beijing 100016, P.R. China

Name and address of the manufacturer
Nom et adresse du fabricant

TPV Technology (Beijing) Co., Ltd.
No. 10, Jiu Xian Qiao Rd.
Chao Yang District, Beijing 100016, P.R. China

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

See additional page(s)

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

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

Trade mark (if any)
Marque de fabrique (si elle existe)

AOC

Model/type Ref.
Ref. de type

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

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

For model differences, refer to the test report.
Re-issue of JPTUV-042055-A1/M1 dated 15.05.2012,
due to second modification.

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

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

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 une partie de ce Certificat

17023859 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



TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
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Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 23.10.2012

Signature:

Dipl.-Ing. (FH) B. Scheirer

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.
Yuan Hong Rd., Shang-Zheng Hong-Lu
Fuqing City Fujian 350301
P.R. China
4. Tatung Czech s.r.o
U Nove Hospody 4
30100 Plzen
Czech Republic
5. TPV Technology (Beijing) Co., Ltd.
No.10 Jiuxianqiao Road
Chaoyang District
Beijing 100016
P.R. China
6. Envision Industry of Electronic
Products Ltd.
Rodovia Anhanguera S/N-KM 49
Tijuco Preto-Jundiá-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. 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

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

Report Ref. No.: 17023859 004

Date: 23.10.2012

Signature:



Dipl.-Ing. (FH) B. Scheirer

10. Envision Industry of Electronic Products Ltd.
Av Torquato Tapajós 7503,
Galpão : II Bloco: B-Condomínio
de Galpões-Tarumã-Manaus, AM, Brazil
11. TPV Technology (Qingdao)
Co., Ltd.
No.99 Huoju Road, High-tech Industrial
Development Zone
Qingdao City, Shandong Province, P.R. China
12. TPV DISPLAY TECHNOLOGY (CHINA)
CO., LTD.
2nd Floor of Building 3
No. 118, Jinghai First Rd., BDA
Beijing City 100015, P.R. China

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

Report Ref. No.: 17023859 004

Date: 23.10.2012

Signature:

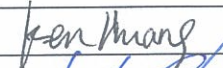


Dipl.-Ing. (FH) B. Scheirer



Test Report issued under the responsibility of:



TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number.....	17023859 004
Date of issue.....	22.Oct.2012
Total number of pages.....	6 pages
CB Testing Laboratory	TÜV Rheinland (Shanghai) Co., Ltd.
Address.....	B1-13/F No. 177, Lane 777, West Guangzhong Road, Zhabei District, Shanghai 200072, P.R. China
Applicant's name	TPV Technology (Beijing) Co., Ltd.
Address.....	No. 10, Jiu Xian Qiao Rd., Chao Yang District, Beijing 100016, P.R. China
Manufacturer's name.....	TPV Technology (Beijing) Co., Ltd.
Address.....	No. 10, Jiu Xian Qiao Rd., Chao Yang District, Beijing 100016, P.R. China
Test specification:	
Standard	IEC 60950-1:2005 (2nd Edition); Am 1:2009
Test procedure.....	CB Scheme
Non-standard test method.....	N/A
Test Report Form No.	IEC60950_1B
Test Report Form(s) Originator	SGS Fimko Ltd
Master TRF	Dated 2010-04
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Test item description.....	LCD Monitor
Trade Mark	AOC
Manufacturer.....	Same as above
Model/Type reference	236LM000**, *2460****, 240LM000** (* can be A-Z, a-z, 0-9, +, -, /, \ or blank, for marketing use only; No constructional differences. Models differ only in model name and marking label)
Ratings.....	I/P: 100-240V~, 50/60Hz, 1.5A

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.
Testing location/ address		B1-13/F No. 177, Lane 777, West Guangzhong Road, Zhabei District, Shanghai 200072, P.R. China
<input type="checkbox"/>	Associated CB Laboratory:	N/A
Testing location/ address		N/A
Tested by (name + signature).....		Ken Huang 
Approved by (name + signature)		Mark Chen 
<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 (2 pages)

Summary of testing:

Tests performed (name of test and test clause):

name of test	test clause number
Input Current Test	1.6.2

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 17023859 001-003.

Copy of marking plate

See original report 17023859 001-003.

Test item particulars:	
Equipment mobility.....:	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <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 (only for Norway) <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	IPX0
Altitude during operation (m)	3658m
Altitude of test laboratory (m)	Less than 2000
Mass of equipment (kg)	Refer to previous reports 17023859 001-003
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	: N/A
Date(s) of performance of tests	: N/A
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:

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)..... : See original report 17023859 003.

General product information:

Description of change(s):

1. Add an alternative power board **type B**, which is identical to original power supply except for adding audio function for optional. Meanwhile, original power supply mentioned in original report 17023859 001 named as type A.

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

Change	Testing	Comments
1.	Input test	See pages 6 for details. Input result is lower than original, no further test considered to be necessary.

Other comments:

Declaration of the manufacturer: the sample(s) submitted for evaluation is (are) representative of the products from each factory.

History of amendments and modifications:

- Ref. No.17023859 001, dated Jan. 12. 2012 (original report)
- Ref. No.17023859 002, dated Feb.17. 2012 (1st modification)
- Ref. No.17023859 003, dated May.15. 2012 (1st amendment)
- Ref. No.17023859 004, dated Oct.22. 2012 (2nd modification)

1.6.2	TABLE: Electrical data (in normal conditions)						P
Fuse #	U (V)	I (A)	I _{rated} (A)	P (W)	I _{fuse} (A)	Condition/status	
Tested with power board: 715G5361 Type B, main board: 715G5270, VGA mode							
F901	90V/50Hz	0.42	--	22.9	0.42	Normal load condition	
F901	90V/60Hz	0.42	--	22.8	0.42	Normal load condition	
F901	100V/50Hz	0.38	1.5	22.8	0.38	Normal load condition	
F901	100V/60Hz	0.38	1.5	22.7	0.38	Normal load condition	
F901	240V/50Hz	0.21	1.5	23.0	0.21	Normal load condition	
F901	240V/60Hz	0.21	1.5	22.9	0.21	Normal load condition	
F901	264V/50Hz	0.19	--	23.8	0.19	Normal load condition	
F901	264V/60Hz	0.19	--	23.7	0.19	Normal load condition	
Tested with power board: 715G5361 Type B, main board: 715G5270, DVI mode							
F901	90V/50Hz	0.43	--	22.9	0.42	Normal load condition	
F901	90V/60Hz	0.42	--	22.9	0.43	Normal load condition	
F901	100V/50Hz	0.40	1.5	22.7	0.40	Normal load condition	
F901	100V/60Hz	0.38	1.5	22.8	0.40	Normal load condition	
F901	240V/50Hz	0.21	1.5	23.0	0.22	Normal load condition	
F901	240V/60Hz	0.20	1.5	22.3	0.22	Normal load condition	
F901	264V/50Hz	0.19	--	23.8	0.20	Normal load condition	
F901	264V/60Hz	0.19	--	23.1	0.20	Normal load condition	
Note(s): 1. Operated under 100% brightness, 100% contrast, full white screen, resolution: 1920x1080@60Hz, which consumed maximum output power. 2. All other tests were performed with VGA mode due to it generates the highest power consumption.							