

**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.  
Rongqiao Economic and Technological Development  
Zone, Fuqing City Fujian Province  
ChinaName and address of the manufacturer  
Nom et adresse du fabricantTPV Electronics (Fujian) Co., Ltd.  
Rongqiao Economic and Technological Development  
Zone, Fuqing City Fujian Province  
ChinaName and address of the factory  
Nom et adresse de l'usineNote: When more than one factory, please report on page 2  
Note: Lorsque il y plus d'une usine, veuillez utiliser la deuxième page Additional information on page 2Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales4.5A or 3.25A, DC 20V  
Cl. III  
AOCTrademark (if any)  
Marque de fabrique (si elle existe)Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais constructeurModel / Type Ref.  
Ref. De type

\*\*251\*\*\*\*\*; 250LM000\*\*

Additional information (if necessary may also be reported on page 2)

The \* in the model name can be 0 to 9, A to Z or blank for marketing use only.

Les informations complémentaires (si nécessaire, peuvent être indiqués sur la deuxième page)

 Additional information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013

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

326961

Comme indiqué dans le Rapport de tests numéro de référence qui constitue partie de ce Certificat

This certificate replaces the certificate NO94440, due to technical modification.

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat de test OC est établi par l'Organisme **National de Certification**Gaustadalléen 30  
NO-0373 Oslo, Norway

Date: 10-03-2017

Signature: Okhyun Jeon  
Certification Department

TPV Electronics (Fujian) Co., Ltd.  
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Fuqing City Fujian Province  
China

Envision Industry of Electronic Products Ltd.  
Rodovia Anhanguera S/N-KM 49, Tijuco Preto-Jundiaí-  
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Brazil

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(Otay) Tijuana B.C.  
Mexico

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TPV Display Technology (Wuhan) Co. Ltd.  
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430056  
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L&T Display Technology (Fujian) Ltd.  
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Technological, Development Zone, Fuqing City, Fujian  
350301  
China

TPV Display Technology (Beihai) Co., Ltd.  
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Province  
China



<b>Amendment to Test Report</b>	
<b>This Amendment is valid only together with the main Test Report</b>	
<b>Report No.</b> .....	: 326961
<b>Main Report No.</b> .....	: 317933
<b>Date of issue</b> .....	: 2017-03-10
<b>Total number of pages</b> .....	: Refer to page 4
<b>Name of Testing Laboratory preparing the Report</b> .....	: Nemko Shanghai Ltd. Shenzhen Branch Unit C & D, Floor 2&Floor 10, Tower 2, Kefa Road #8, Hi-Technology Park, Nanshan District, 518057 Shenzhen, CHINA
<b>Applicant's Name</b> .....	: TPV Electronics (Fujian) Co., Ltd.
<b>Address</b> .....	: Rongqiao Economic and Technological Development Zone, FUQING CITY FUJIAN PROVINCE, CHINA
<b>Test specification:</b>	
<b>Standard</b> .....	: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
<b>Test procedure</b> .....	: CB Scheme
<b>Non-standard test method</b> .....	: N/A
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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.	
<b>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.</b>	
<b>General disclaimer:</b>	
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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

<b>Test item description</b> .....	: LCD Monitor
<b>Trade Mark</b> .....	: AOC
<b>Manufacturer</b> .....	: Same as applicant
<b>Model/Type reference</b> .....	: **251*****;250LM000** (The * in the model name can be 0 to 9, A to Z or blank for marketing use only.)
<b>Ratings</b> .....	: 4.5A or <b>3.25A</b> , 20 V DC

<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	Nemko Shanghai Ltd. Shenzhen Branch
<b>Testing location/ address .....</b> :		Unit C & D, Floor 2 & Floor 10, Tower 2, Kefa Road #8 Hi-Technology Park Nanshan District 518057 Shenzhen CHINA
<input type="checkbox"/>	<b>Associated CB Testing Laboratory:</b>	
<b>Testing location/ address .....</b> :		
<b>Tested by (name + function + signature) :</b>		Bill Yang (Project handler) <i>Bill</i>
<b>Approved by (name + function + signature) :</b>		Jane Sun (Verifier) <i>Jane Sun</i>
<hr/>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	
<b>Testing location/ address .....</b> :		
<b>Tested by (name, function, signature) .....</b> :		
<b>Approved by (name, function, signature) ..</b> :		
<hr/>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	
<b>Testing location/ address .....</b> :		
<b>Tested by (name + signature).....</b> :		
<b>Witnessed by (name, function, signature) . :</b>		
<b>Approved by (name, function, signature) ..</b> :		
<hr/>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	
<b>Testing location/ address .....</b> :		
<b>Tested by (name, function, signature) .....</b> :		
<b>Witnessed by (name, function, signature) . :</b>		
<b>Approved by (name, function, signature) ..</b> :		
<b>Supervised by (name, function, signature) :</b>		
<hr/>		

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

- Main report ( 12 pages )
- Photos (2 pages )

**Summary of testing:****Tests performed (name of test and test clause):**

Clause	Test(s)
1.6	Input Current Test
1.7	Marking and instructions

**Testing location:**

See page 3

**Summary of compliance with National Differences****List of countries addressed:**

Modified products still complies with previously evaluated National Differences.

**The product fulfils the requirements of IEC 60950-1: 2005 (2nd Edition); Am1: 2009; Am2: 2013 and all CENELEC members as listed in EN 60950-1: 2006 +A11: 2009+A1: 2010+A12: 2011+ A2: 2013.**

**Copy of marking plates:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

(Additional requirements for markings. See 1.7 NOTE)



<p><b>Calibration:</b></p>	<p>All instruments used in the tests given in this test report are calibrated and traceable to national or international standards.</p> <p>Further information about traceability will be given on request.</p>
<p><b>Measurement uncertainty:</b></p>	<p>Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02 (Dec. 1999), IEC Guide 115:2007, Nemko routine L227 and other relevant internal Nemko-procedures.</p> <p>Further information about measurement uncertainties will be given on request.</p>
<p><b>Evaluation of results:</b></p>	<p>If not explicitly stated otherwise in the standard, the test is passed if the measured value is equal to or below (above) the limit line, regardless of the measurement uncertainty. If the measured value is above (below) the limit line, the test is not passed – ref IEC Guide 115:2007, and Nemko routine L220. The instrumentation accuracy is within limits agreed by IECEE-CTL (ref. Nemko routine L227).</p>

<b>Test item particulars</b> ..... :	
<b>Classification of installation and use</b> ..... :	Movable
<b>Supply Connection</b> .....	Cl. III, not direct plug-in the equipment.
..... :	
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> ..... :	
<b>Date of receipt of test item</b> .....	2017-03-01
<b>Date(s) of performance of tests</b> .....	2017-03-01 to 2017-03-08
<b>General remarks:</b>	
<p>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.</p> <p><b>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</b></p>	

<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950-1:</b>	
<b>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 .....</b>	<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	

<b>Name and address of factory (ies)</b> ..... :	1. TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R.China 2. TPV Display Technology (China) Co., Ltd. No.106 Jinghai 3 Rd., BDA, BEIJING CITY 100176, CHINA 3. L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological, Development Zone, Fuqing City, Fujian 350301, CHINA 4. TPV Display Technology (Wuhan) Co. Ltd. Unique No. 11, Zhuankou Development, District of Economic Technological Development Zone, WUHAN CITY 430056, CHINA 5. Hefei Huntkey Display Technology Co., Ltd. South Jinxiu Road, East Qingtan Road, Economic And Technological Development Zone, HEFEI ANHUI 230601, CHINA
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6. TREND SMART CE MEXICO S. DE R.L. DE C.V.  
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8. Envision Industry of Electronic Products Ltd.  
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Condomínio de Galpões-Tarumã-Manaus AM,  
BRAZIL

9. TPV Display Technology (Beihai) Co., Ltd.  
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the Crossing, Between Taiwan Road and Jilin Road,  
BEIHAI CITY GUANGXI, CHINA

10. TPV Technology (Qingdao) Co., Ltd.  
NO.99 Huoju Road, High-tech Industrial  
Development Zone, QINGDAO CITY SHANDONG  
PROVINCE, CHINA

11. TPV Electronics (Fujian) Co., Ltd.  
Shangzheng, Yuanhong Road, FUQING CITY  
FUJIAN PROVINCE, CHINA

12. TPV Electronics (Fujian) Co., Ltd.  
Optoelectronic Park, Rongqiao Economic and  
Technological Development Zone, FUQING CITY  
FUJIAN 350301, CHINA

**General product information:**

This Amendment report No. 326961 always be enclosed with main Test Report No. 317933.

**The updates concerned in this test report are as follows:**

- Add one alternative mainboard (type B) .
- Add one alternative adapter.

Alternative adapter:

Power adapter CB test report with IEC 60950-1:2005 (2nd Edition);am1: 2009,am2:2013; and/or EN60950-1:2006; A11:2009; A1:2010; A12:2011,A2:2013, CB issued by TUV RH Cert No.JPTUV-074918 (3 pages) and report No.17061539 001(total 129 pages including photos ).

Model difference:

All models are the same, except model name.

Model name	Adapter	Mainboard
**251*****; 250LM000**	ADPC2090	Type A,
	ADPC2065**** (*=0-9,A-Z,a-z,-,\,/,+ or blank)	Type A, Type B

Load condition: Full white display with Max. Brightness and contrast, picture provided from a computer. Maximum volume with a 1KHz sinusoidal input signal (optional),and load 0.9A for each USB 3.0.

With adapter ADPC2065\*\*\*\* and mainboard type B, under DP mode represent the worst condition for all tests.

<b>Project history:</b>		
Nemko Report / Order No.:	Modification to the appliances:	Changes/ Modifications in clause(s):
317933	Main Test Report	N/A
326961	-.Add one alternative mainboard (type B) . -.Add one alternative adapter.	General product information cl.1.5,1.6,1.7and photos

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1	<b>GENERAL</b>		—
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<b>1.5</b>	<b>Components</b>		
1.5.1	General		P
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	P
1.5.2	Evaluation and testing of components	<p>Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard.</p> <p>Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard.</p> <p>Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p>	P

<b>1.6</b>	<b>Power interface</b>		
1.6.1	AC power distribution systems	DC supplied	—
1.6.2	Input current	(see appended table 1.6.2)	P

<b>1.7</b>	<b>Marking and instructions</b>		
1.7.1	Power rating and identification markings	The required marking is located on the outside surface of the equipment.	P
1.7.1.1	Power rating marking	See below	P
	Multiple mains supply connections.....:	Only one mains supply connections.	N/A
	Rated voltage(s) or voltage range(s) (V) .....	20V DC	P
	Symbol for nature of supply, for d.c. only .....	IEC 60417, symbol No. 5031, is used.	P
	Rated frequency or rated frequency range (Hz) ... :	DC supplied	—
	Rated current (mA or A) .....	4.5A or <b>3.25A</b>	—
1.7.11	Durability	The marking withstands required tests.	P

1.5.1	TABLE: list of critical components				P
Object/part No.	Manufacturer/trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>1)</sup>
AC/DC adapter	TPV Electronics (Fujiang) Co., Ltd	ADPC2090	Input : 100-240 V~, 50-60 Hz, 1.3 A Output: 20 Vdc, 4.5 A, SELV	IEC60950-1:2005+A1:2009+ A2:2013 EN 60950-1:2006+A11:2009+A1:2010+ A12:2011+A2:2013	CB by TUV RH (17038425 001 and 17038425 002)
Alt.)	TPV Electronics (Fujiang) Co., Ltd	ADPC2065**** (*=0-9,A-Z,a-z,-,/,+ or blank)	Input : 100-240 V~, 50-60 Hz, 1.5 A Output: 20 Vdc, 3.25 A, SELV, LPS	IEC60950-1:2005+A1:2009+ A2:2013 EN 60950-1:2006+A11:2009+A1:2010+ A12:2011+A2:2013	CB by TUV RH (17061539 001)
Supplementary information:					
<sup>1)</sup> an asterisk indicates a mark which assures the agreed level of surveillance. -.The bold parts indicated the added source.					

1.6.2	TABLE: electrical data (in normal conditions)					P
fuse #	I <sub>rated</sub> (A)	U ( V / Hz)	P (W)	I (A)	I <sub>fuse</sub> (A)	condition/status
--	3.25	20V dc	41.0	2.05	--	Normal load
Supplementary information:						
Maximum normal load refer to general product information.						

Photos



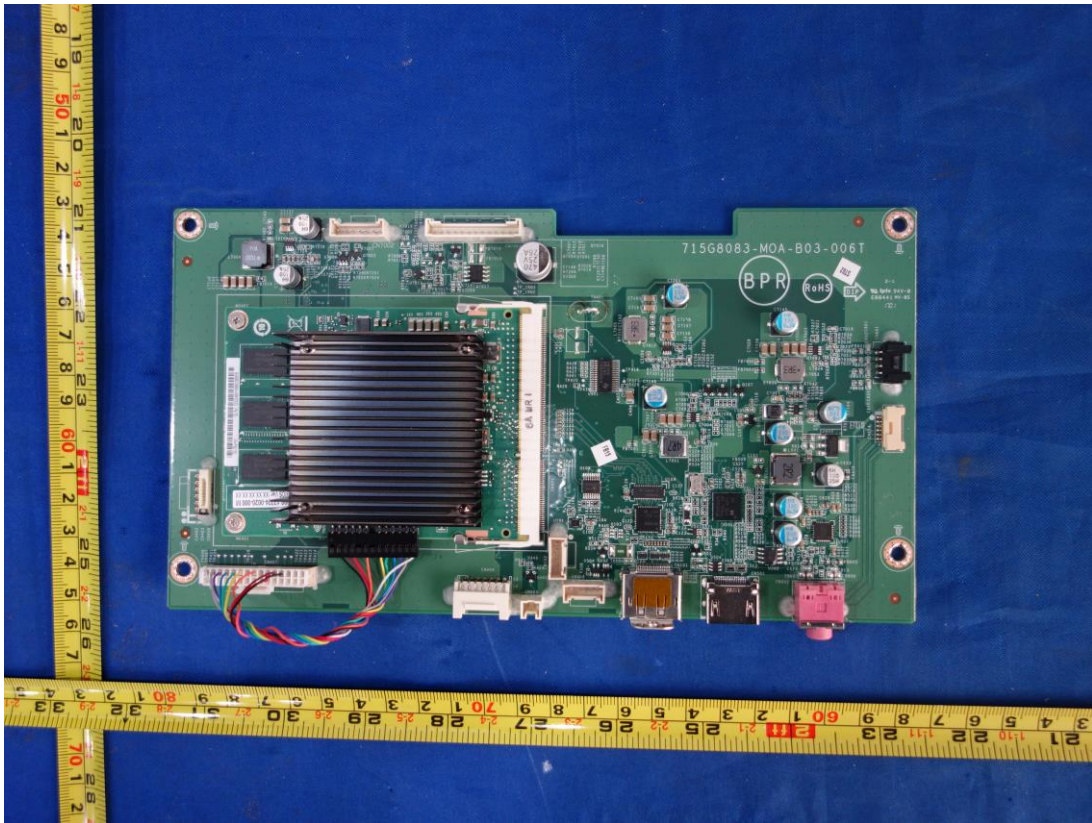
The internal view with mainboard type B

Note: The mylar sheet was used for preventing the internal wire to be scratched



The internal view with mainboard type B





The components side of mainboard type B



The solder side of mainboard type B

-- End of report --