

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

CB TEST CERTIFICATE

Product

LCD Monitor

Name and address of the applicant

TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic & Technological Development
Zone, Fuqing, 350301, Fujian, China

Name and address of the manufacturer

TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic & Technological Development
Zone, Fuqing, 350301, Fujian, China

Name and address of the factory

See page 2

Note: When more than one factory, please report on page 2

 Additional Information on page 2

Ratings and principal characteristics

100 V - 240 V, 50 Hz / 60 Hz, 1,5 A; Class I

Trademark / Brand (if any)

AOC

Customer's Testing Facility (CTF) Stage used

-

Model / Type Ref.

Q24P3CV, Q24P3CW, Q24P3QW, Q24P*****,
24P***** (*can be A-Z, a-z, 0-9, blank or symbol
+, -, /, \, or sign absence or no mark or no symbol)

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

 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

National Differences:

CN, AU, NZ, JP, US, CA, KR, SG

As shown in the Test Report Ref. No. which forms part of this Certificate

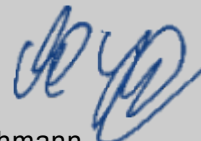
SZES220800467001

This CB Test Certificate is issued by the National Certification Body

SGS Fimko Ltd
Takomotie 8
FI-00380 Helsinki, Finland

Date: 2022-11-17

Signature:

Mark Lohmann
Certification Manager

Name and address of the factories:

1. TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic & Technological Development Zone, Fuqing, 350301, Fujian, China
2. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road, Fuqing, Fujian, China
3. TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China
4. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China
5. TPV Display Technology (China) Co., Ltd.
No.106 Jinghai 3 Rd., BDA, Beijing, 100176, China
6. TPV Display Technology (Wuhan) Co., Ltd.
Unique No. 11 Zhuankou Development District of Economic Technological Development Zone, Wuhan, Hubei, China
7. TPV Display Technology (Beihai) Co., Ltd.
China Electronic Beihai Industry Park, Northeast of the Crossing between Taiwan Road and Jilin Road, Beihai, Guangxi, China
8. TREND SMART CE MEXICO S. DE R.L. DE C.V.
Sor Juana, Ines de la Cruz No.19602 Nueva, C.P. 23435, Tijuana, Baja California, Mexico
9. Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236, Flores, CEP 69058-830, Manaus, AM, Brazil
10. TPV Technology (Thailand) Co., Ltd.
No. 267 Mu7, Tha Tum Sub- District, Si Maha Pho District, Prachinburi, Thailand
11. GeneTouch Corporation
No. 9, Neixi Rd., Luzhu Dist., Taoyuan City, 338012, Taiwan
12. Dixon Technologies (India) Ltd.
EMC-2, Shed No. 2,4,5,6 & 7, Near Tirupati Airport, Village Govindhavaram, Munagalapalem Post, Revenue Vikruthamala, Yerpedu Mandelam, District-Chittoor, 517526, Andhra Pradesh, India
13. Fábrica Austral de Productos Eléctricos S.A.
Islas Malvinas 1180, Rio Grande (9420), Provincia de, Tierra del Fuego, Antártida e Islas del Atlántico Sur, Argentina

SGS Fimko Ltd
Takomotie 8
FI-00380 Helsinki, Finland



Date: 2022-11-17

Signature:



Mark Lohmann
Certification Manager



Test Report issued under the responsibility of:



TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements

Report Number..... : SZES220800467001
Date of issue..... : 2022-11-16
Total number of pages 97 pages

Name of Testing Laboratory preparing the Report : SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Applicant's name : TPV Electronics (Fujian) Co., Ltd.
Address..... : Rongqiao Economic & Technological Development Zone, Fuqing, 350301, Fujian, China

Test specification:

Standard : IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure : CB Scheme
Non-standard test method : N/A

Test Report Form No. : IEC60950_1G
Test Report Form(s) Originator : SGS Fimko Ltd
Master TRF : Dated 2019-07-02

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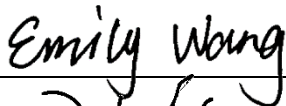
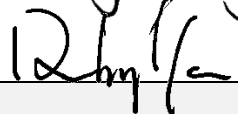
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

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.

Test item description :	LCD Monitor	
Trade Mark :	AOC	
Manufacturer	Same as applicant	
Model/Type reference :	Q24P3CV, Q24P3CW, Q24P3QW, Q24P***** , 24P***** (*can be A-Z, a-z, 0-9, blank or symbol +, -, /, \, or sign absence or no mark or no symbol)	
Ratings :	100-240 V ~, 50/60 Hz, 1,5 A, Class I	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Testing location/ address	No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China 518057	
Tested by (name, function, signature) :	Emily Wang / Project Engineer	
Approved by (name, function, signature) .. :	Ruby Yan / Report Reviewer	
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	N/A
Testing location/ address		
Tested by (name, function, signature) :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	N/A
Testing location/ address		
Tested by (name + signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	N/A
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	N/A
Testing location/ address		
Tested by (name, function, signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
Supervised by (name, function, signature) :		

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

Attachment 1: 28 pages of Photos;
 Attachment 2: 5 pages of Deviations of China;
 Attachment 3: 8 pages of Deviations of Australia and New Zealand;
 Attachment 4: 14 pages of Deviations of Japan;
 Attachment 5: 5 pages of Deviations of USA;
 Attachment 6: 5 pages of Deviations of Canada;
 Attachment 7: 1 page of Deviations of Korea;
 Attachment 8: 2 pages of SINGAPORE NATIONAL DIFFERENCES.

Summary of testing:

The sample(s) tested complies with the requirements of IEC 60950-1:2005 + Am 1:2009 + Am 2:2013. No decision rule is specified by standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method")

Representative model(s) for full testing: Q24P3CV

There are three version for this product:

Versions	Power board	Main board	USB board	Speaker	With camera
Version A	715GB004	715GD478	715GB001	4ohm, 4W	No
Version B					Yes
Version C	715G7610	715GD437	715GD383, 715GB001	8ohm, 7W	

Heating test: T_{ma} = 40 °C (Declared by manufacturer)

T-type thermocouple used for temperature measurement.

Operation mode under test: Unless otherwise specified, all tests were carried out with three vertical bar products three equidistant vertical white bars on a black background and maximum brightness and contrast.

Tests performed (name of test and test clause):

1. GENERAL
 2. PROTECTION FROM HAZARDS
 3. WIRING, CONNECTIONS AND SUPPLY
 4. PHYSICAL REQUIREMENTS
 5. ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS
 6. CONNECTION TO TELECOMMUNICATION NETWORKS
 7. CONNECTION TO CABLE DISTRIBUTION SYSTEMS

Testing location:

SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch
 No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China
 518057

Summary of compliance with National Differences:

List of countries addressed: CN, AU, NZ, JP, US, CA, KR, SG

The product fulfils the requirements of GB 4943.1—2011; AS/NZS 60950-1: 2015; J60950-1 (H29); UL 60950-1-07(Second Edition) + A1: 2011 + A2: 2014; CAN/CSA-C22.2 No. 60950-1-07, Amd 1:2011, Amd 2:2014; K60950-1(2011-12).

The national differences of AR, BE, GR, HU, IN, MY, SK, KEN, CZ have been also checked and found to include no nation differences or deviations from the IEC 60950-1: 2005 + Am 1:2009 + Am 2:2013.

The manufacturer declared that the product also fulfilled of the requirements of SANS 60950-1: 2014 (Edition 2.2) / IEC 60950-1: 2013 (Edition 2.2)

Copy of marking plate:

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.

For model 24P3QW

AOC LCD Monitor / ЖК-монитор / Monitor LCD / Moniteur LCD		WARNING/AVERTISSEMENT: Never remove covers unless qualified to do so. N'enlevez jamais les moins qualifié de le faire.		تحذير: يجب أن يتم تآريض هذا الجهاز بحظر فك الغطاء إلا إذا كنت مؤهلا للقيام بذلك	
Model Name/Наименование модели/ Nombre del modelo/Nom de modèle:	24P3QW		XXXXXXXXXXXXXXXXXX Serial No.:XXXXXXXXXXXXXXXXXX	Manufactured:2022.07	
Model No./Модель №/Modelo/ N° de modèle:	24P3				
Power Rating/Входная мощность/ Potencia nominal/Puissance évaluée:	100-240V ~ 50/60Hz 1.5A			X XXXXXX XXXXXX	
Made in China/Сделано в Китае/Fabricado en China/Fabriqué en Chine Laitte on liitettävä suojakoskettimilla varustettuun pistorasiaan Apparätet må tilkoples jordet stikkontakt Apparaten skall anslutas till jordat uttag Apparätets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord	www.aoc.com				
Envision Peripherals, Inc. 490 N McCarthy Blvd, Suite #120 Milpitas, CA 95035 USA	AOC International (Europe) B.V. Prins Bernhardplein 200, 1097 JB Amsterdam, the Netherlands	TPV Electronics (Fujian) Co., Ltd. H40G024N615A35 XX P			

For model 24P3CW

AOC LCD Monitor / ЖК-монитор / Monitor LCD / Moniteur LCD		WARNING/AVERTISSEMENT: Never remove covers unless qualified to do so. N'enlevez jamais les moins qualifié de le faire.		تحذير: يجب أن يتم تآريض هذا الجهاز بحظر فك الغطاء إلا إذا كنت مؤهلا للقيام بذلك CAN ICES-003(B)/NMB-003(B)	
Model Name/Наименование модели/ Nombre del modelo/Nom de modèle:	24P3CW		XXXXXXXXXXXXXXXXXX Serial No.:XXXXXXXXXXXXXXXXXX	Manufactured:2022.07	
Model No./Модель №/Modelo/ N° de modèle:	24P3C				
Power Rating/Входная мощность/ Potencia nominal/Puissance évaluée:	100-240V ~ 50/60Hz 1.5A			X XXXXXX XXXXXX	
Made in China/Сделано в Китае/Fabricado en China/Fabriqué en Chine Laitte on liitettävä suojakoskettimilla varustettuun pistorasiaan Apparätet må tilkoples jordet stikkontakt Apparaten skall anslutas till jordat uttag Apparätets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord	www.aoc.com				
Envision Peripherals, Inc. 490 N McCarthy Blvd, Suite #120 Milpitas, CA 95035 USA	AOC International (Europe) B.V. Prins Bernhardplein 200, 1097 JB Amsterdam, the Netherlands	TPV Electronics (Fujian) Co., Ltd. H40G024N615A36 XX P			

Remark:

- The marking plates as above of other models are of the same pattern.
- The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.

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%, +10% (as client's request)
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)	16 A; 20A for US/CA
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)	Max. 5000 m
Altitude of test laboratory (m)	Shenzhen: Max. 120 m
Mass of equipment (kg)	Version B: 5,35 kg, Base stand: 1,71 kg Version C: 5,04 kg, Base stand: 1,71 kg
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	2022-08-03
Date (s) of performance of tests	2022-08-04 to 2022-11-01

General remarks:

"(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.

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Manufacturer's Declaration per sub-clause 4.2.5 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.