Ref. Certif. No.

FI-54802

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 Note: *When more than one factory, please report on page 2*	See page 2 ☒ Additional Information on page 2
Ratings and principal characteristics	100 V - 240 V, 50 Hz / 60 Hz, 2,0 A; Class I
Trademark / Brand (if any)	AOC
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	AG325QX, AG325Q, AG32********* (* 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 62368-1:2014 National Differences: EU Group Differences, AU, NZ, JP, US, CA
As shown in the Test Report Ref. No. which forms part of this Certificate	SZES220910584301

This CB Test Certificate is issued by the National Certification Body

SGS Fimko Ltd
Takomotie 8
FI-00380 Helsinki, Finland

SGS

Date: 2022-11-30

Signature:

Mark Lohmann
Certification Manager

Ref. Certif. No.

FI-54802

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. 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

8. Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236, Flores, CEP 69058-830, Manaus, AM, Brazil

9. TPV Technology (Thailand) Co., Ltd.
No. 267 Mu7, Tha Tum Sub- District, Si Maha Pho District, Prachinburi, Thailand

10. GeneTouch Corporation
No. 9, Neixi Rd., Luzhu Dist., Taoyuan City, 338012, Taiwan

11. 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

12. 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: 2022-11-30

Signature:

Mark Lohmann
Certification Manager

Test Report issued under the responsibility of:

TEST REPORT
IEC 62368-1
Audio/video, information and communication technology equipment
Part 1: Safety requirements

Report Number ..... :	**SZES220910584301**
Date of issue ..... :	**2022-11-30**
Total number of pages ..... :	**81 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 62368-1:2014
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
TRF template used ..... :	IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No. ..... :	IEC62368_1D
Test Report Form(s) Originator .. :	UL(US)
Master TRF ..... :	Dated 2022-04-14

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(s) ..... :	AOC	
Manufacturer..... :	Same as applicant	
Model/Type reference ..... :	AG325QX, AG325Q, AG32********* (* 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, 2,0 A, Class I	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒ **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 518057, Guangdong, China.	
Tested by (name, function, signature) ..... :	Becky Wang / Project Engineer	Becky Wang
Approved by (name, function, signature) ..... :	Emily Wang / Report Reviewer	Emily Wang
☐ **Testing procedure: CTF Stage 1:**		
Testing location/ address ..... :		
Tested by (name, function, signature) ..... :		
Approved by (name, function, signature) ..... :		
☐ **Testing procedure: CTF Stage 2:**		
Testing location/ address ..... :		
Tested by (name, function, signature) ..... :		
Witnessed by (name, function, signature)..... :		
Approved by (name, function, signature) ..... :		
☐ **Testing procedure: CTF Stage 3 :**		
☐ **Testing procedure: CTF Stage 4:**		
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: 11 pages of Photos.

Attachment 2: 4 pages of Construction of Transformer;

Attachment 3: 10 pages of EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES;

Attachment 4: 32 pages of Deviations of Australia and New Zealand;

Attachment 5: 4 pages of Deviations of Japan;

Attachment 6: 5 pages of Deviations of United State and Canada.

Summary of testing:

The sample(s) tested complies with the requirements of IEC 62368-1: 2014.

Representative model(s) for full testing: AG325QZN.

Heating test: Tma = 40 °C (Declared by manufacturer)

T-type thermocouple used for temperature measurement.

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):	**Testing location:**
☒ 4. General requirements ☒ 5. Electrically-caused injury ☒ 6. Electrically-caused fire ☐ 7. Injury caused by hazardous substances ☒ 8. Mechanically-caused injury ☒ 9. Thermal burn injury ☒ 10. Radiation ☒ Annex B. Normal operating condition tests, abnormal operating condition tests and single fault condition tests ☒ Annex F.3.9. Performance of Marking test ☐ Annex M. Equipment Containing Batteries And Their Protection Circuits ☒ Annex P.4. Metallized coatings and adhesive securing parts ☒ Annex Q. Limited Power Source ☒ Annex T. Mechanical strength tests ☒ Annex V. Determination of accessible parts	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen 518057, Guangdong, China.

Summary of compliance with National Differences (List of countries addressed):

EU Group difference, AU, NZ, JP, US, CA, GB

☒ **The product fulfils the requirements of EN 62368-1:2014 + A11:2017, AS/NZS 62368.1:2018, J62368-1 (2020), UL 62368-1: 2014 Ed.2, CSA C22.2 No. 62368-1: 2014 Ed.2, BS EN 62368-1:2014 + A11:2017.**

Use of uncertainty of measurement for decisions on conformity (decision rule):

☒ No decision rule is specified by the IEC 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").

☐ Other:… (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

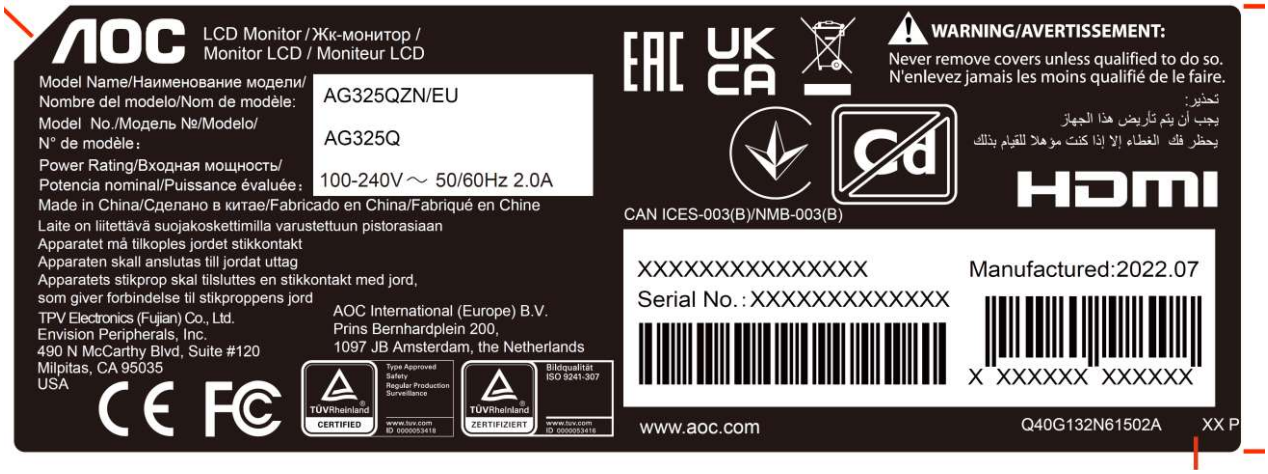
IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

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 AG325Q:



Remark:

1. The Height of CE & UKCA logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.
2. The marking plates as above of other models are of the same pattern.

TEST ITEM PARTICULARS:	
Classification of use by ..... :	☒ Ordinary person ☐ Instructed person ☐ Skilled person ☒ Children likely to be present
Supply Connection ..... :	☒ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance ..... :	☒ +10%/-10% ☐ +20%/-15% ☐ +____%/ -_____% ☐ None
Supply Connection – Type ..... :	☒ pluggable equipment type A - ☐ non-detachable supply cord ☒ appliance coupler ☐ direct plug-in ☐ mating connector ☐ pluggable equipment type B - ☐ non-detachable supply cord ☐ appliance coupler ☐ permanent connection ☐ mating connector ☐ other:
Considered current rating of protective device as part of building or equipment installation..... :	16 A; 20A for US/CA Installation location: ☒ building; ☐ equipment
Equipment mobility ..... :	☒ movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☒ wall-mounted
Over voltage category (OVC) ..... :	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Class of equipment ..... :	☒ Class I ☐ Class II ☐ Class III ☐ Class II with functional earthing ☐ Not classifed
Access location ..... :	☐ restricted access area ☒ N/A
Pollution degree (PD) ..... :	☐ PD 1 ☒ PD 2 ☐ PD 3
Manufacturer's specified maxium operating ambient ..... :	40 ℃
IP protection class ..... :	☒ IPX0 ☐ IP___
Power Systems ..... :	☐ TN ☐ TT ☐ IT - ____ V $_{L-L;}$ ☐ dc mains ☐ N/A
Altitude during operation (m) ..... :	☐ 2000 m or less ☒ 5000 m
Altitude of test laboratory (m) ..... :	☐ 2000 m or less ☒ <120 m
Mass of equipment (kg) ..... :	8,49 kg with base stand, Base stand: 2,29 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 ..... :	2022-09-29
Date (s) of performance of tests ..... :	2022-09-29 to 2022-10-27

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.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

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) .....:	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, 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 8, Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós, 2236, Flores, CEP 69058-830, Manaus, AM, Brazil 9, TPV Technology (Thailand) Co., Ltd. No. 267 Mu7, Tha Tum Sub- District, Si Maha Pho District, Prachinburi, Thailand 10, GeneTouch Corporation No. 9, Neixi Rd., Luzhu Dist., Taoyuan City, 338012, Taiwan 11, 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 12, 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

General product information and other remarks:

Product Description:

Product	31,5 inch TFT LCD monitor with LED backlight
Functions	Monitor, HDMI (Optional), DP (Optional), USB (Optional), USB UP(Optional)), AUDIO OUT (Optional)
Power source	AC mains
Material of enclosure	Plastic enclosure and metallic enclosure covered main board
Other features	Indoor use only
Model Differences	All models are identical except for model No. For model AG32********* (* can be A-Z, a-z, 0-9, blank or symbol +, -, /, \, or sign absence or no mark or no symbol, which is not influencing on safety)

Model Differences: See above.

Additional application considerations – (Considerations used to test a component or sub-assembly) –