

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, 2,0 A; Class I

Trademark / Brand (if any)



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

SZES220910584301

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

This CB Test Certificate is issued by the National Certification Body

SGS Fimko Ltd
Takomotie 8
FI-00380 Helsinki, Finland

Date: 2022-11-30

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. 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**


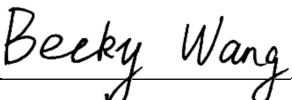
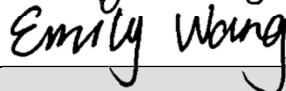
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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)			
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):			
<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 518057, Guangdong, China.	
Tested by (name, function, signature)		Becky Wang / Project Engineer	
Approved by (name, function, signature)		Emily Wang / Report Reviewer	
<input type="checkbox"/>	Testing procedure: CTF Stage 1:		
Testing location/ address			
Tested by (name, function, signature)			
Approved by (name, function, signature)			
<input type="checkbox"/>	Testing procedure: CTF Stage 2:		
Testing location/ address			
Tested by (name, function, signature)			
Witnessed by (name, function, signature).....			
Approved by (name, function, signature)			
<input type="checkbox"/>	Testing procedure: CTF Stage 3 :		
<input type="checkbox"/>	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)			

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>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.</p>	
<p>Summary of testing:</p> <p>The sample(s) tested complies with the requirements of IEC 62368-1: 2014.</p> <p>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.</p>	
<p>Tests performed (name of test and test clause):</p> <p><input checked="" type="checkbox"/> 4. General requirements <input checked="" type="checkbox"/> 5. Electrically-caused injury <input checked="" type="checkbox"/> 6. Electrically-caused fire <input type="checkbox"/> 7. Injury caused by hazardous substances <input checked="" type="checkbox"/> 8. Mechanically-caused injury <input checked="" type="checkbox"/> 9. Thermal burn injury <input checked="" type="checkbox"/> 10. Radiation <input checked="" type="checkbox"/> Annex B. Normal operating condition tests, abnormal operating condition tests and single fault condition tests <input checked="" type="checkbox"/> Annex F.3.9. Performance of Marking test <input type="checkbox"/> Annex M. Equipment Containing Batteries And Their Protection Circuits <input checked="" type="checkbox"/> Annex P.4. Metallized coatings and adhesive securing parts <input checked="" type="checkbox"/> Annex Q. Limited Power Source <input checked="" type="checkbox"/> Annex T. Mechanical strength tests <input checked="" type="checkbox"/> Annex V. Determination of accessible parts</p>	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen 518057, Guangdong, China.</p>
<p>Summary of compliance with National Differences (List of countries addressed):</p> <p>EU Group difference, AU, NZ, JP, US, CA, GB</p> <p><input checked="" type="checkbox"/> 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.</p>	

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:

AOC LCD Monitor / ЖК-монитор /
Monitor LCD / Moniteur LCD

Model Name/Наименование модели/
Nombre del modelo/Nom de modèle: AG325QZN/EU
Model No./Модель №/Modelo/
N° de modèle: AG325Q
Power Rating/Входная мощность/
Potencia nominal/Puissance évaluée: 100-240V ~ 50/60Hz 2.0A
Made in China/Сделано в Китае/Fabricado en China/Fabriqué en Chine
Laitte on liitettävä suojakoskettimilla varustettuun pistorasiaan
Apparatet må tilkoples jordet stikkontakt
Apparaten skall anslutas till jordat uttag
Apparatets stikprop skal tilsluttes en stikkontakt med jord,
som giver forbindelse til stikproppens jord.
TPV Electronics (Fujian) Co., Ltd.
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

CE FCC TUV Rheinland CERTIFIED TUV Rheinland CERTIFIED

www.aoc.com ID: 000003418

www.aoc.com ID: 000003418

www.aoc.com

Q40G132N61502A XX P

EAC UK CA

WARNING/AVERTISSEMENT:
Never remove covers unless qualified to do so.
N'enlevez jamais les moins qualifié de le faire.

تحذير:
يجب أن يتم تأريض هذا الجهاز
يحظر فك الغطاء إلا إذا كنت مؤهلاً للقيام بذلك

HDMI

CAN ICES-003(B)/NMB-003(B)

XXXXXXXXXXXXXXXXXXXX
Serial No.: XXXXXXXXXXXXXXXX
Manufactured: 2022.07
XXXXXXXX XXXXXX

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	<input checked="" type="checkbox"/> Ordinary person <input type="checkbox"/> Instructed person <input type="checkbox"/> Skilled person <input checked="" type="checkbox"/> Children likely to be present
Supply Connection	<input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Mains <input type="checkbox"/> External Circuit - not Mains connected - <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
Supply % Tolerance	<input checked="" type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> + ___ %/ - ___ % <input type="checkbox"/> None
Supply Connection – Type	<input checked="" type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input checked="" type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> mating connector <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input type="checkbox"/> other:
Considered current rating of protective device as part of building or equipment installation.....	16 A; 20A for US/CA Installation location: <input checked="" type="checkbox"/> building; <input type="checkbox"/> equipment
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 <input type="checkbox"/> rack-mounting <input checked="" type="checkbox"/> wall-mounted
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:
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Class II with functional earthing <input type="checkbox"/> Not classified
Access location	<input type="checkbox"/> restricted access area <input checked="" type="checkbox"/> N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer's specified maximum operating ambient	40 °C
IP protection class	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP__
Power Systems	<input type="checkbox"/> TN <input type="checkbox"/> TT <input type="checkbox"/> IT - ___ V _{L-L} ; <input type="checkbox"/> dc mains <input type="checkbox"/> N/A
Altitude during operation (m)	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> 5000 m
Altitude of test laboratory (m)	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> <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:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p> <p>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC62 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..... :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	

Name and address of factory (ies)	<p>1, TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic & Technological Development Zone, Fuqing, 350301, Fujian, China</p> <p>2, TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing, Fujian, China</p> <p>3, TPV Electronics (Fujian) Co., Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China</p> <p>4, L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China</p> <p>5, TPV Display Technology (China) Co., Ltd. No.106 Jinghai 3 Rd., BDA, Beijing, 100176, China</p> <p>6, TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11 Zhuankou Development District of Economic Technological Development Zone, Wuhan, Hubei, China</p> <p>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</p> <p>8, Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós, 2236, Flores, CEP 69058-830, Manaus, AM, Brazil</p> <p>9, TPV Technology (Thailand) Co., Ltd. No. 267 Mu7, Tha Tum Sub- District, Si Maha Pho District, Prachinburi, Thailand</p> <p>10, GeneTouch Corporation No. 9, Neixi Rd., Luzhu Dist., Taoyuan City, 338012, Taiwan</p> <p>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</p> <p>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</p>
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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)**

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