

**IECEE**

TM

Ref. Certif. No.

JPTUV-087250-A1/M3

**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

Top Victory Electronics (Taiwan) Co., Ltd.
10F., No. 230, Liancheng Rd.
Zhonghe Dist., New Taipei City, 23553 Taiwan

Name and address of the manufacturer

Sharp NEC Display Solutions, Ltd.
4-28 Mita 1-chome, Minato-ku
Tokyo, 108-0073 Japan

Name and address of the factory

See additional page(s)

Ratings and principal characteristics

100-240VAC; 50/60Hz; 1.60-0.75A (2.0A for Mexico); Class I

Trademark (if any)

NEC

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

EA271Q, EA271Q-BK, EA271U, EA271U-BK

Additional information (if necessary may
also be reported on page 2)For model differences, refer to the test report.
Re-issue of JPTUV-087250-A1/M2 dated 09.03.2020,
due to third modification.A sample of the product was tested and
found to be in conformity withIEC 60950-1:2005+A1+A2
See Test Report for National DifferencesAs shown in the Test Report Ref. No. which
forms part of this Certificate

50131497 005

This CB Test Certificate is issued by the National Certification Body

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web : www.tuv.com

Date: 2020-12-15

Signature:

Dipl.-Ing. F. Stoelzel

1. TPV Display Technology (Wuhan)
Co., Ltd.
Unique No. 11, Zhuankou Development
District of Economic Technological
Development Zone, 430056 Wuhan City, P.R. China
2. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City
Fujian
P.R. China
3. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao
Economic and Technological
Development Zone
Fuqing, 350301 Fujian, P.R. China
4. TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone
Fuqing City
Fujian, P.R. China
5. 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
6. TPV Display Technology (China) Co., Ltd.
No. 106 Jinghai 3 Rd.,
BDA
100176 Beijing
P.R. China
7. Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz
de 19602 Nueva Tijuana,
22435 Tijuana Baja California
MEXICO
8. TPV Technology (Qingdao)

Additional information (if necessary)

Report Ref. No. : 50131497 005

Date: 2020-12-15

Signature:



Dipl.-Ing. F. Stoelzel

Co., Ltd.
No.99 Huoju Road, High-tech
Industrial Development Zone
Qingdao City, Shandong, P.R. China

9. Envision Indústria de Produtos
Eletrônicos Ltda.
Av. Torquato Tapajós, 2236,
Flores - CEP 69058-830 - Manaus/AM
Brazil
10. Pro Concept Manufacturer Co., Ltd
88/1 Moo 12, Soi
Phetkasem 120, Phetkasem
Road, Omnoi, Krathumbaen,
Samutsakhon 74130, Thailand
11. TPV Technology (Thailand) Co., Ltd.
267 Moo 7,
Thatum Sub-District, Srimahaphot District,
Prachinburi Province
Thailand
12. TPV Technology (Thailand) Co., Ltd.
Tambon Tha Turn,
Amphoe Si Maha Phot,
Chang Wat Prachin Buri 25140
Thailand
13. TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park,
Rongqiao Economic and
Technological Development Zone,
Fuqing City, 350301 Fujian, P.R. China

Additional information (if necessary)

Report Ref. No. : 50131497 005

Date: 2020-12-15

Signature:



Dipl.-Ing. F. Stoelzel



Test Report issued under the responsibility of:



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

Report Number.: 50131497 005

Date of issue: 2020-12-01

Total number of pages.....: 17

**Name of Testing Laboratory
preparing the Report**.....: Audix Technology Corporation

Applicant's name.....: Top Victory Electronics (Taiwan) Co., Ltd.

Address: 10F., No. 230, Liancheng Rd., Zhonghe Dist., New Taipei City,
23553 Taiwan

Test specification:

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

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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Equipment and Components (IECEE System). All rights reserved.**

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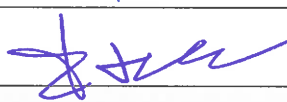
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

**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	NEC	
Manufacturer.....	Sharp NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, 108-0073 Japan	
Model/Type reference	EA271Q, EA271Q-BK, EA271U, EA271U-BK	
Ratings	100-240V~, 50/60Hz, 1.60-0.75A (2.0A for Mexico)	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒ CB Testing Laboratory:	Audix Technology Corporation	
Testing location/ address	No. 53-11, Dingfu, Linkou Dist., New Taipei City, Taiwan, Chinese Taipei	
Tested by (name, function, signature)	Thomas Lin (Project handle)	
Approved by (name, function, signature) ..	Ben Lu (Reviewer)	
☐ 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 + 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): - Photo documentation (2 pages) Total number of pages in each attachment is indicated in each individual attachment.	
Summary of testing:	
Tests performed (name of test and test clause): All applicable tests as described in Test Case and Measurement Sections were performed. The maximum normal load condition used as below during testing: For EA271Q The equipment operated under maximum brightness, maximum contrast of LED backlight circuit and the volume with 1kHz sinusoidal waveform of unit adjusted to maximum attainable output and dummy load of main board type C 5V/0.9A for each USB 3.0 port (total three provided) and 3.3V/0.5A for Display port (total two provided) and 5V, 9V 12V, 15V, 20V / 3A for USB Type C refer to appended table 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 (List of countries addressed): See original report 50131497 001 for the details.	

Copy of marking plate:

HDMI		DVI-D		ControlSync		USB-C upstream DP-IN		USB		USB		USB	
NEC MultiSync EA271Q LCD MONITOR ЖК-монитор VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A (2.0A for Mexico), FREQUENCY / Частота: 50/60Hz (MODEL / Модель: EA271Q)													
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE. NO USER-SERVICEABLE PARTS INSIDE. ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUE, NE PAS OUVRIR CE BOITIER. ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN. PRECAUCION: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITÉ EL RECINTO. NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO. VAROITUS: LAITE ON LITETTÄVÄ SUOJAOSKETTIMILLÄ VARUSTETTUUN PISTORASAAAN. VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅT. ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT. ADVARSEL: APPARATETS STIKKOP SKAL TILSLUTTES EN STIKKONTAKT MED JORD SOM GIVER FORBINDELSE TIL STIKKOPPENS JORD.													
HDMI CE EAC SAFETY MARK 180490-11 Сделано в Китае FABRIQUE EN CHINE FABRICADO EN CHINA MADE IN CHINA ИЗГОТОВИТЕЛЬ: TPV Electronics (Japan) Co., Ltd. Brand contact: Sharp NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, Japan													
NEC MultiSync EA271Q LCD MONITOR ЖК-монитор VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A (2.0A for Mexico), FREQUENCY / Частота: 50/60Hz (MODEL / Модель: EA271Q)													
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NEC MultiSync EA271Q LCD MONITOR ЖК-монитор 液晶显示器 VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A, FREQUENCY / Частота: 50/60Hz (MODEL / 型号 / Модель: EA271Q-BK)													
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE. NO USER-SERVICEABLE PARTS INSIDE. ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUE, NE PAS OUVRIR CE BOITIER. ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN. PRECAUCION: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITÉ EL RECINTO. NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO. VAROITUS: LAITE ON LITETTÄVÄ SUOJAOSKETTIMILLÄ VARUSTETTUUN PISTORASAAAN. VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅT. ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT. 注意: 本显示器内有高压, 非专业人员, 请勿自行打开后盖, 以免危险! ADVARSEL: APPARATETS STIKKOP SKAL TILSLUTTES EN STIKKONTAKT MED JORD SOM GIVER FORBINDELSE TIL STIKKOPPENS JORD.													
HDMI CE EAC SAFETY MARK 180491-11 Сделано в Китае FABRIQUE EN CHINE FABRICADO EN CHINA MADE IN CHINA ИЗГОТОВИТЕЛЬ: TPV Electronics (Japan) Co., Ltd. 生产厂: 福建捷成电子有限公司 生产地址: 福建省福州市经济技术开发区 日本国東京都港区三田一丁目4番28号													
NEC MultiSync EA271U LCD MONITOR ЖК-монитор VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A (2.0A FOR MEXICO), FREQUENCY / Частота: 50/60Hz (MODEL / Модель: EA271U)													
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE. NO USER-SERVICEABLE PARTS INSIDE. ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUE, NE PAS OUVRIR CE BOITIER. ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN. PRECAUCION: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITÉ EL RECINTO. NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO. VAROITUS: LAITE ON LITETTÄVÄ SUOJAOSKETTIMILLÄ VARUSTETTUUN PISTORASAAAN. VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅT. ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT. ADVARSEL: APPARATETS STIKKOP SKAL TILSLUTTES EN STIKKONTAKT MED JORD SOM GIVER FORBINDELSE TIL STIKKOPPENS JORD.													
HDMI CE EAC SAFETY MARK 180491-11 Сделано в Китае FABRIQUE EN CHINE FABRICADO EN CHINA MADE IN CHINA ИЗГОТОВИТЕЛЬ: TPV Electronics (Japan) Co., Ltd. 生产厂: 福建捷成电子有限公司 生产地址: 福建省福州市经济技术开发区 日本国東京都港区三田一丁目4番28号													
NEC MultiSync EA271U LCD MONITOR ЖК-монитор VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A (2.0A FOR MEXICO), FREQUENCY / Частота: 50/60Hz (MODEL / Модель: EA271U)													
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE. NO USER-SERVICEABLE PARTS INSIDE. ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUE, NE PAS OUVRIR CE BOITIER. ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN. PRECAUCION: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITÉ EL RECINTO. NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO. VAROITUS: LAITE ON LITETTÄVÄ SUOJAOSKETTIMILLÄ VARUSTETTUUN PISTORASAAAN. VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅT. ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT. ADVARSEL: APPARATETS STIKKOP SKAL TILSLUTTES EN STIKKONTAKT MED JORD SOM GIVER FORBINDELSE TIL STIKKOPPENS JORD.													
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NEC MultiSync EA271U LCD MONITOR ЖК-монитор 液晶显示器 VOLTS / Вольт: 100-240V ~, AMPERES / Ампер: 1.60-0.75A, FREQUENCY / Частота: 50/60Hz (MODEL / 型号 / Модель: EA271U-BK)													
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE. NO USER-SERVICEABLE PARTS INSIDE. ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUE, NE PAS OUVRIR CE BOITIER. ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN. PRECAUCION: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITÉ EL RECINTO. NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO. VAROITUS: LAITE ON LITETTÄVÄ SUOJAOSKETTIMILLÄ VARUSTETTUUN PISTORASAAAN. VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅT. ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT. 注意: 本显示器内有高压, 非专业人员, 请勿自行打开后盖, 以免危险! ADVARSEL: APPARATETS STIKKOP SKAL TILSLUTTES EN STIKKONTAKT MED JORD SOM GIVER FORBINDELSE TIL STIKKOPPENS JORD.													
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Test item particulars.....:	
Equipment mobility.....:	☒ movable ☐ hand-held ☐ transportable ☒ stationary (when with mounting function) ☐ for building-in ☐ direct plug-in
Connection to the mains.....:	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....:	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other: not directly connected to the mains
Mains supply tolerance (%) or absolute mains supply values	±10
Tested for IT power systems	☒ Yes ☐ No
IT testing, phase-phase voltage (V)	230 for Norway
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	16 (20 for North America)
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	IP20
Altitude during operation (m)	Up to 5000
Altitude of test laboratory (m)	Less than 2000
Mass of equipment (kg)	Approx. 8.06kg (unit with base stand); Base stand 2.46kg

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: 2020-11-17

Date (s) of performance of tests: 2020-11-24 to 2020-11-25

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 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)

- 1) TPV Display Technology (Wuhan) Co., Ltd.
Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, 430056 Wuhan City, P.R. China
- 2) TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road Fuqing City Fujian P.R. China
- 3) L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, 350301 Fujian, P.R. China
- 4) TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone Fuqing City Fujian, P.R. China
- 5) Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuana Baja California MEXICO
- 6) 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
- 7) TPV Technology (Qingdao) Co., Ltd.
No.99 Huoju Road, High-tech Industrial Development Zone Qingdao City, Shandong, P.R. China
- 8) TPV Display Technology (China) Co., Ltd.
No. 106 Jinghai 3 Rd., BDA 100176 Beijing P.R. China
- 9) TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, 350301 Fujian, P.R. China

- 10) Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236, Flores – CEP 69058-830 - Manaus/AM Brazil
- 11) Pro Concept Manufacturer Co., Ltd.
88/1 Moo 12 Soi Phetkasem 120, Phetkasem Road, Omnoi, Krathumbaen, Samutsakhon 74130 Thailand
- 12) TPV Technology(Thailand) Co., Ltd.
Tambon Tha Turn, AmphoeSi Maha Phot, Chang Wat Prachin Buri 25140 Thailand
- 13) TPV Technology (Thailand) Co., Ltd.
267 Moo 7, Thatum Sub-District, Srimahaphot District, Prachinburi Province, Thailand

General product information:

Refer to Report No. 50131497 001, 002, 003 and 004.

The equipment models which shown as page 2 are LCD Monitor intended for information technology equipment scope of this standard use.

The equipment consists of the following critical components:

- LCD panel (LED backlight type);
- Building-in type non-approved switching power supply board;
- Main board type A and **type C** (with HDMI port, Display port x2, DVI port , ControlSync IN/OUT, USB 3.0 port x 3, Audio IN port, Audio Out port, USB type B port, USB type C port);
- Main board type B (with HDMI port x2, Display port, ControlSync IN/OUT, USB 3.0 port x 3, Audio Out port, USB type B port, USB type C port);
- External plastic enclosure;
- Internal metal enclosure;
- Internal speak;
- Key control board.

Description of change(s):

1. Add alternate LCD panel for EA271Q, EA271Q-BK.
2. Add main board type C for EA271Q, EA271Q-BK.
3. Add external plastic enclosure source.
4. Add power cord.
5. Correct typing error of table 1.5.1.
5. Change manufacturer name from NEC Display Solutions, Ltd. to Sharp NEC Display Solutions, Ltd.
6. Change label for EA271Q, EA271Q-BK, EA271U and EA271U-BK.

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

Change	Testing	Comments
1, 2, 3	1. Input test 2. Steady force test 3. Impact test 4. Stress relief test 5. Hi-Pot test	Test results of input test are smaller than previous therefore no thermal tests are considered necessary. See the appended table for test results and photo documentation for details.
4	N/A	For new sources, see appended table 1.5.1.
5	N/A	Refer to bold texts in table 1.5.1 for detail.
6	N/A	See page 2 for detail.
7	N/A	See copy of marking plate for detail. The new labels are similar to original labels except for manufacturer name.

Construction Differences			
Model name	EA271Q, EA271Q-BK		EA271U, EA271U-BK
Main board	Type A	Type C	Type B
Power board	Type A, Type B	Type B	Type A, Type B
Panel	LTM270DLz	LM270WQ4	LM270WR3, MV270QU*-N**

Main board type C is similar to main board type A except for slight change the PCB layout.

History of amendments and modifications:

Ref. No. 50131497 001, dated 2018-04-11 (original test report)

Ref. No. 50131497 002, dated 2018-05-18 (modification)

Ref. No. 50131497 003, dated 2020-01-10 (modification)

Ref. No. 50131497 004, dated 2020-03-06 (amendment)

Ref. No. 50131497 005, dated 2020-12-01 (modification)

Statement concerning the uncertainty of the measurement systems used for the tests
(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:
Procedure number, issue date and title:

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

☒ **Statement not required by the standard used for type testing**

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5	Components		P
1.5.1	General	See below.	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	Components certified to IEC standards and/or their harmonized standards, are used within their ratings and are checked for correct application. Non-certified components are checked for correct application, used within their ratings, tested as part of the equipment and subjected to applicable tests of the component standard. Components, which no relevant IEC-Standard exists, are used within their ratings and are tested under the conditions occurring in the equipment.	P
1.6	Power interface		P
1.6.1	AC power distribution systems	Considered.	P
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.4	Neutral conductor	Neutral is insulated from earth and body throughout the equipment and components rated accordingly.	P
2.6	Provisions for earthing and bonding		P
2.6.3.2	Size of protective earthing conductors	See below.	P
	Rated current (A), cross-sectional area (mm ²), AWG :	Max. 2.0A, min. 0.75 mm ² , 18AWG.	—
3.2	Connection to a mains supply		P
3.2.5	Power supply cords		P
3.2.5.1	AC power supply cords	See appended table 1.5.1.	P
	Type :	See appended table 1.5.1.	—
	Rated current (A), cross-sectional area (mm ²), AWG :	Max. 2.0A, min. 0.75 mm ² , 18AWG.	—
4.2	Mechanical strength		P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.2.1	General	See below. After the tests, the equipment complies with the requirements of sub-clauses 2.1.1, 2.6.1, 2.10.	P
4.2.4	Steady force test, 250 N	After subjected 250N, no damage to the plastic enclosure.	P
4.2.5	Impact test	No damage to the plastic enclosure from the steel ball impact test.	P
	Fall test	See above.	P
	Swing test	See above.	P
4.2.7	Stress relief test	At 70°C for 7 hours.	P
5.2	Electric strength		P
5.2.1	General	See appended table 5.2.	P
5.2.2	Test procedure	Table 5B used.	P

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

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 ¹⁾	
External Plastic Enclosure (rear enclosure)	LG CHEM Ltd	LUPOY GN 5001RF(T), LUPOY GN-5001RF(T), LUPOY GN-5007F(#), LUPOY GN-5008HF(#)	V-0 or better, thickness 1.5 mm min.	UL 94 Edition Number 6	UL	
alt.	LG CHEM Ltd	AF312T1, AF342T1	V-0 or better, thickness 2.1 mm min.	UL 94 Edition Number 6	UL	
alt.	Lotte Advanced	VH-0810(+), VE-0812(+)	V-0 or better, thickness 2.0 mm min.	UL 94 Edition Number 6	UL	
alt.	Lotte Advanced	NE-1030(+)	V-0 or better, 60 degree C min., min. 1.5mm thickness.	UL 94 Edition Number 6	UL	
alt.	Lotte Advanced	VE-1890(+), NH-1017(p), NH-1000T(+)(&), GC-1017(+)(RR30)	V0 or better, thickness 2.0mm min.	UL 94 Edition Number 6	UL	
alt.	Grand Pacific Petrochemical Corp	D-1000A	V0 or better, thickness 2.12mm min.	UL 94 Edition Number 6	UL	
alt.	Kingfa Sci & Tech Co., Ltd.	HF-606, CK-572(M1)(##), HF-626, FRABS-518, FRABS-518C	V-0 or better, thickness 1.6 mm min.	UL 94 Edition Number 6	UL	
alt.	Kingfa Sci & Tech Co., Ltd.	JH960 6(M), JH960 6(M)(ccc) (###), JH960-6(M)(ccc) (##)	V-0 or better, thickness 1.5mm min.	UL 94 Edition Number 6	UL	
alt.	Kingfa Sci & Tech Co., Ltd.	FRHIPS-960, CK-680(M1)(##), FRHIPS-960M, FRHIPS-960MB	V-0 or better, thickness 1.7mm min.	UL 94 Edition Number 6	UL	

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
alt.	Teijin	TN-7500(C), MN-3600H(#)	V-0 or better, thickness 1.5mm min.	UL 94 Edition Number 6	UL
alt.	SAMYANG	210NHF(@), 210NHF	V-0 or better, thickness 1.5mm min.	UL 94 Edition Number 6	UL
alt.	GUO HENG(DONGGU AN) PLASTIC TECHNOLOGY CO LTD	YOUHE26(##)	V-0 or better, 60 degree C min., min. 1.5mm thickness.	UL 94 Edition Number 6	UL
External Plastic Enclosure (front frame as decorating part)	LG CHEM Ltd.	LUPOY GN 5001RF(T), LUPOY GN- 5001RF(T)	V-0 or better, thickness 1.2 mm min.	UL 94 Edition Number 6	UL
alt.	Lotte Advanced	NE-1030(+)	V-0 or better, 60 degree C min., min. 1.5mm thickness.	UL 94 Edition Number 6	UL
alt.	GUO HENG(DONGGU AN) PLASTIC TECHNOLOGY CO LTD	YOUHE26(##)	V-0 or better, 60 degree C min., min. 1.5mm thickness.	UL 94 Edition Number 6	UL
LCD Panel (only for EA271Q, EA271Q-BK)	Samsung Display	LTM270DLz (z may be from 0 to 9. It can be made up by a maximum length of two numeric characters.)	5Vdc, 1.0A or 1.7A and 12- 21Vdc, 2.0A.	IEC 60950- 1:2005 (Second Edition); Am1:2009 + Am2:2013	CB by TUV
alt.	LG Display	LM270WQ4	10.0Vdc, Max. 1.040A.	IEC 60950- 1:2005 (Second Edition); Am1:2009 + Am2:2013	CB by TUV
Power cord set listed below by client's request					
Mains cord set (Saudi Arabia) (Optional)					
Plug	I-Sheng	SP-62	3A/5A/10A/13A, 250V~.	BS 1363 SASO 2203:2018	CVC
-alt.	I-Sheng	SP-65	3A/5A/10A, 250V~.	BS 1363 SASO 2203:2018	CVC

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Cable	I-Sheng	H05VV-F	3 x 0.75mm², 3 x 1.0mm², 3 x 1.5mm².	BS 1363 SASO 2203:2018	CVC
-alt.	I-Sheng	H05RR-F	3 x 0.75mm².	BS 1363 SASO 2203:2018	CVC
-alt.	I-Sheng	H03VV-F	3 x 0.75mm².	BS 1363 SASO 2203:2018	CVC
Supplementary information: 1. Provided evidence ensures the agreed level of compliance. See OD-CB2039. 2. In Optocoupler technical data column, where "Di" means distance through insulation. 3. Interchangeable components are components that may be substituted by equivalent technical data and like approved/certified components which will not impact the safety and function of the particular end product. 4. License available upon request.					

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

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V/Hz)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
Test with main board type C and power board type B							
HDMI mode (USB type C load 20V / 3A)							
90/50	1.51	--	135.1	F901	1.51	Maximum normal load	
90/60	1.51	--	135.1	F901	1.51	Maximum normal load	
100/50	1.34	1.60	133.7	F901	1.34	Maximum normal load	
100/60	1.34	1.60	133.7	F901	1.34	Maximum normal load	
240/50	0.61	0.75	129.5	F901	0.61	Maximum normal load	
240/60	0.61	0.75	129.5	F901	0.61	Maximum normal load	
264/50	0.56	--	128.8	F901	0.56	Maximum normal load	
264/60	0.56	--	128.8	F901	0.56	Maximum normal load	
Display mode (USB type C load 20V / 3A)							
90/50	1.50	--	133.3	F901	1.50	Maximum normal load	
90/60	1.50	--	133.3	F901	1.50	Maximum normal load	
100/50	1.33	1.60	132.1	F901	1.33	Maximum normal load	
100/60	1.33	1.60	132.1	F901	1.33	Maximum normal load	
240/50	0.61	0.75	128.0	F901	0.61	Maximum normal load	
240/60	0.61	0.75	128.0	F901	0.61	Maximum normal load	
264/50	0.55	--	127.9	F901	0.55	Maximum normal load	
264/60	0.55	--	127.9	F901	0.55	Maximum normal load	
DVI mode (USB type C load 20V / 3A)							
90/50	1.51	--	135.3	F901	1.51	Maximum normal load	
90/60	1.51	--	135.3	F901	1.51	Maximum normal load	
100/50	1.35	1.60	134.1	F901	1.35	Maximum normal load	
100/60	1.35	1.60	134.1	F901	1.35	Maximum normal load	
240/50	0.62	0.75	130.1	F901	0.62	Maximum normal load	
240/60	0.62	0.75	130.1	F901	0.62	Maximum normal load	
264/50	0.56	--	129.8	F901	0.56	Maximum normal load	
264/60	0.56	--	129.8	F901	0.56	Maximum normal load	
USB type C mode							
90/50	0.69	--	61.7	F901	0.69	Maximum normal load	
90/60	0.69	--	61.7	F901	0.69	Maximum normal load	

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
100/50	0.61	1.60	60.6	F901	0.61	Maximum normal load
100/60	0.61	1.60	60.6	F901	0.61	Maximum normal load
240/50	0.30	0.75	59.5	F901	0.30	Maximum normal load
240/60	0.30	0.75	59.5	F901	0.30	Maximum normal load
264/50	0.28	--	59.3	F901	0.28	Maximum normal load
264/60	0.28	--	59.3	F901	0.28	Maximum normal load
Note(s): 1. The measured input current at rated voltage shall be $\leq 110\%$ of rated current. 2. See summary of testing in the test report for the detail max. normal condition. 3. If nothing else stated, dummy load of 20V / 3A for USB type C to represent the worst case. 4. Test results of input test are smaller than previous therefore no thermal tests are considered necessary.						

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Basic / supplementary:				
Unit: primary and earth		DC	2661	No
Reinforced:				
Unit: primary and secondary		DC	4242	No
Unit: primary and plastic enclosure with foil		DC	4242	No
Supplementary information:				

List of test equipment used:

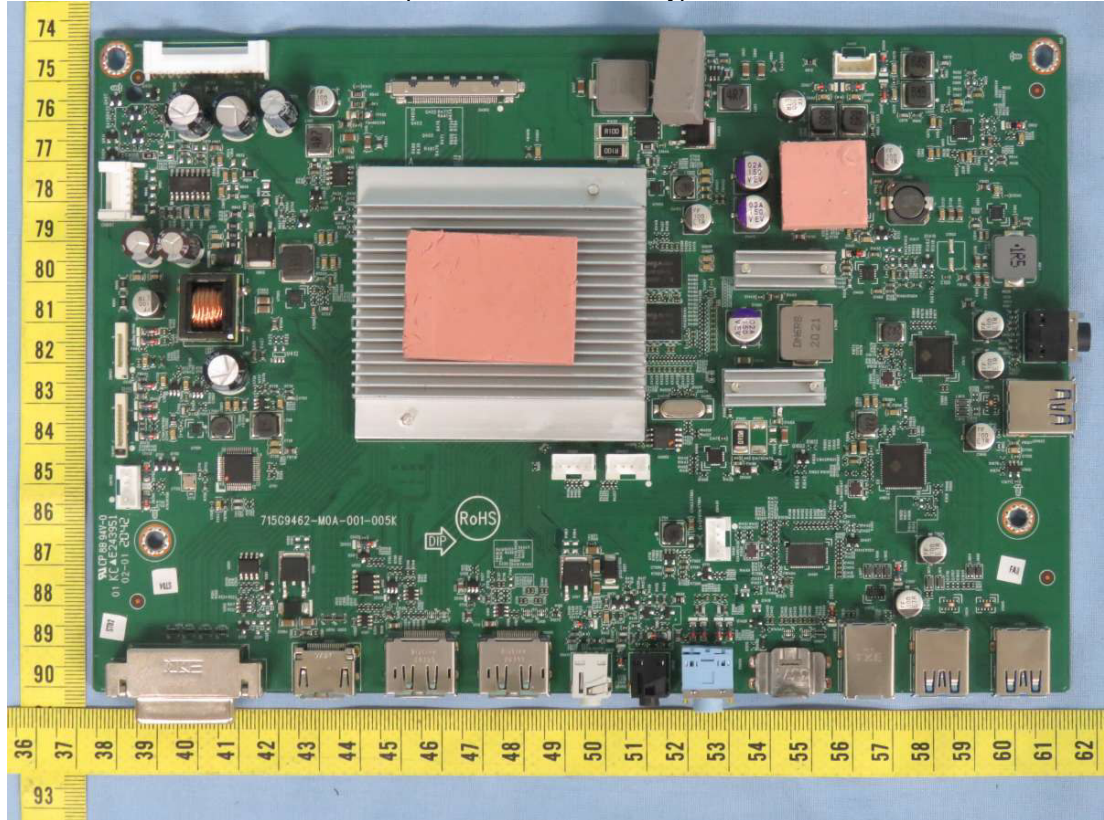
A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or WMT/CTF stage 2 procedure has been used.

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date

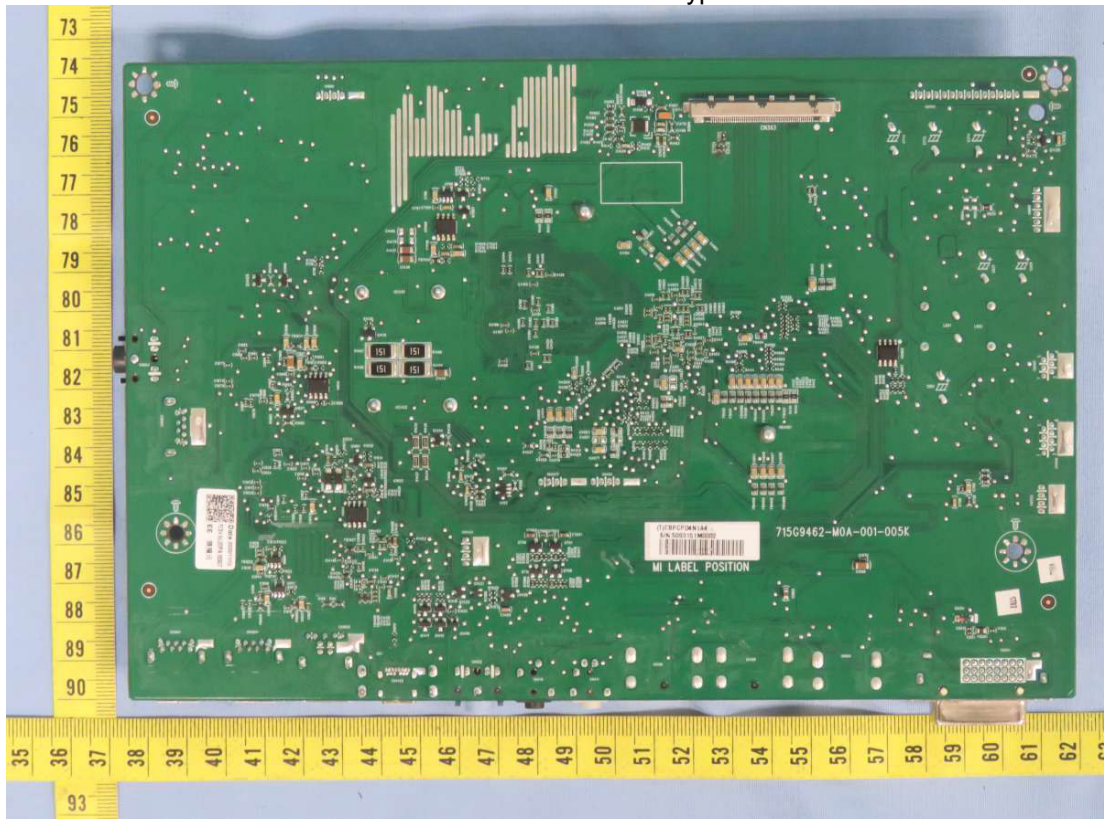
Product: LCD Monitor

Type Designation: EA271Q, EA271Q-BK, EA271U, EA271U-BK

Top view of main board type C



Bottom view of main board type C



Product: LCD Monitor

Type Designation: EA271Q, EA271Q-BK, EA271U, EA271U-BK

Connector view 1 of main board type C



Connector view 2 of main board type C

