TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

TPV Electronics (Fujian) Co., Ltd.
Mr. Xinliang Wu
RD-SE
Rongqiao Economic and
Technological Development Zone
Fuqing City, Fujian Province
P. R. China

Date : 19.06.2019
Our ref. : Zhaoso SZ
Your ref.: 168113099

Ref : CB Certificate Japan

Type of Equipment : LCD Monitor
Model Designation : See Certificate
Certificate No. : JPTUV-087747-M1
Report No. : 17061072 002

Dear Mr. Xinliang Wu,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

Aegean Li

Enclosure

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司
Unit 707, AVIC Bldg., No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, 100022, P.R.China
北京市朝阳区东三环中路乙10号艾维克大厦707室
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Internet: http://www.chn.tuv.com

IEC IECEE CB SCHEME

Ref. Certif. No.

JPTUV-087747-M1

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	LCD Monitor
Name and address of the applicant Nom et adresse du demandeur	TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P. R. China
Name and address of the manufacturer Nom et adresse du fabricant	TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P. R. China
Name and address of the factory Nom et adresse de l'usine	See additional page(s)
Ratings and principal characteristics Valeurs nominales et charactéristiques principales	AC 100-240V; 50/60Hz; 1.5A; Class I
Trademark (if any) Marque de fabrique (si elle existe)	AOC
Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur	N/A
Model / Type Ref. Ref. de type	24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* = 0-9, A-Z, a-z, +, -, /, \ or blank)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2ème page)	For model differences, refer to the test report. Re-issue of JPTUV-087747 dated 04.05.2018, due to first modification.
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	IEC 60950-1:2005+A1+A2 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat	17061072 002

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

TÜVRheinland®

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: 19.06.2019

Signature: Aegean Li

1. TPV Display Technology (Wuhan) Co., Ltd.
   Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P. R. China

2. TPV Electronics (Fujian) Co., Ltd.
   Shangzheng, Yuan Hong Road
   Fuqing City, Fujian Province
   P. R. China

3. L&T Display Technology (Fujian) Ltd.
   Optoelectronic Park, Rongqiao Economic and Technological Development Zone
   Fuqing, Fujian 350301, P. R. China

4. TPV Electronics (Fujian) Co., Ltd.
   Rongqiao Economic and Technological Development Zone
   Fuqing City, Fujian Province
   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 Province, P. R. China

8. TPV Display Technology (China) Co., Ltd.
   No. 106 Jinghai 3 Rd., BDA
   Beijing City 100176
   P. R. China

9. TPV Electronics (Fujian) Co., Ltd.
   Optoelectronic Park,
   Rongqiao Economic and Technological Development Zone,
   Fuqing City, Fujian Province 350301, P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 17061072 002

Date: 19.06.2019

Signature: Aegean Li

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
Phetkasem120, Phetkasem
Road, Omnoi, Krathumbaen,
Samutsakhon 74130, Thailand

12. Treeview Co., Ltd.
106/29 Moo 8, Sukhumvit Road, T.Banglamung,
A.Banglamung, Chonburi 20150
Thailand

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 17061072 002

Date: 19.06.2019

Signature: Aegean Li

Test Report issued under the responsibility of:

TÜVRheinland®

TEST REPORT

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

Report Number. .....:	17061072 002
Date of issue .....:	17.Jun.2019
Total number of pages.....:	17 pages
Applicant's name.....:	TPV Electronics (Fujian) Co., Ltd.
Address .....:	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. 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_1F
Test Report Form(s) Originator.....:	SGS Fimko Ltd
Master TRF.....:	Dated 2014-02

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 .....:	AOC
Manufacturer.....:	Same as applicant
Model/Type reference .....:	24G1, **24G1********, **24G2, **24G2********; 27G1, **27G1********, **27G2, **27G2******** (* can be 0-9, A-Z, a-z, "+", "-", "/", "\" or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)
Ratings .....:	I/P: 100-240V~, 50/60Hz, 1.5A

Testing procedure and testing location:

☒	**CB Testing Laboratory:**	TÜV Rheinland (Shenzhen) Co., Ltd.	
Testing location/ address ..... :		East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District CHINA	
☐	**Associated CB Testing Laboratory:**		
Testing location/ address ..... :			
Tested by (name + signature)..... :		Solina Zhao Test Engineer	Solina Zhao
Approved by (name + signature)..... :		Anderson Wang Technical Reviewer	

☐	**Testing procedure: TMP/CTF Stage 1:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Approved by (name + signature)..... :			

☐	**Testing procedure: WMT/CTF Stage 2:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Witnessed by (name + signature) ..... :			
Approved by (name + signature)..... :			

☐	**Testing procedure: SMT/CTF Stage 3 or 4:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Witnessed by (name + signature) ..... :			
Approved by (name + signature)..... :			
Supervised by (name + signature)..... :			

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

- Photo documentation (6 pages)
- Measurement Section (1 page)

Total number of pages in each attachment is indicated in individual attachment.

Summary of testing:

Tests performed (name of test and test clause):

name of test	test clause number
Input Current Test	1.6.2
Durability of Marking Test	1.7.11
Stability test	4.1
Steady force test, 10 N	4.2.2
Steady Force Test, 30N	4.2.3
Maximum Temperature Test	4.5.2
Openings in enclosures	4.6
Fault Condition Test	5.3

The EUT passed the test.

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:

EU Group Differences, EU Special National Conditions, EU A-Deviations, AT, AU, BE, CA, CH, CN, CZ, DE, DK, FI, FR, GB, GR, HU, IT, IL*, JP, KR*, NL, NO, PL, SE, SI, SK, US

Explanation of used codes: AT=Austria, AU=Australia, BE=Belgium, CA=Canada, CH=Switzerland, CN=China, CZ=Czech Republic, DE=Germany, DK=Denmark, FI=Finland, FR=France, GB=United Kingdom, GR=Greece, HU=Hungary, IT=Italy, IL=Israel, JP=Japan, KR=Korea, NL=The Netherlands, NO=Norway, PL=Poland, SE=Sweden, SI=Slovenia, SK=Slovakia, US=United States of America

For National Differences see end of this test report.

* National differences to IEC 60950-1:2005 (Second Edition) + Am 1:2009 evaluated.

☒ The product fulfils the requirements of EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013.

For National Difference see corresponding Attachment of original report 17061072 001.

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.

Note:
All models' rating labels are in the same design except for type designation. Above labels are representing the other models.

Test item particulars.....:	
Equipment mobility.....:	[x] movable (for unit with base stand) [] hand-held [] transportable [x] stationary (for unit without base stand) [] for building-in [] direct plug-in
Connection to the mains.....:	[x] pluggable equipment [x] type A [] type B [] permanent connection [x] detachable power supply cord [] non-detachable power supply cord [] not directly connected to the mains
Operating condition.....:	[x] continuous [] rated operating / resting time:
Access location .....:	[x] operator accessible [] restricted access location
Over voltage category (OVC) .....:	[] OVC I [x] OVC II [] OVC III [] OVC IV [] other:
Mains supply tolerance (%) or absolute mains supply values .....:	±10% (requested by client)
Tested for IT power systems .....:	[] Yes [x] No
IT testing, phase-phase voltage (V) .....:	230 for Norway
Class of equipment .....:	[x] Class I [] Class II [] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A) .....:	16A (20A for North America)
Pollution degree (PD) .....:	[] PD 1 [x] PD 2 [] PD 3
IP protection class .....:	IPX0
Altitude during operation (m) .....:	≤5000
Altitude of test laboratory (m) .....:	<2000
Mass of equipment (kg) .....:	For 23.6 inch model: 4.47kg (with base stand type A); For 23.8 inch model: 4.47kg (with base stand type A); For 27.0 inch model: 6.15kg (with base stand type A); For base stand type A: approx. 1.51kg; For base stand type B: approx. 1.35kg
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.....:	25.Apr.2019
Date(s) of performance of tests .....:	05.Jun.2019 - 16.Jun.2019
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 Display Technology (Wuhan) Co., Ltd.
Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P.R. China

2 TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China

3 L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao Economic and Technological, Development Zone, Fuqing, Fujian 350301, P.R. China

4 TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, 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 Tijuans 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 Province, P.R. China

8 TPV Display Technology (China) Co., Ltd.
No.106 Jinghai 3 Rd., BDA, Beijing City 100176, P.R. China.

9 TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province 350301, 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 Treeview Co., Ltd.
106/29 Moo 8, Sukhumvit Road, T.Banglamung, A.Banglamung, Chonburi 20150 Thailand

General product information:

Description of change(s):

1. Add alternative main board 715G9500 (with HDMI, DP and Audio-out ports) for model 27G1, **27G1********.
2. Add new 23.8 inch models 24G2, **24G2********, which are identical to original models 24G1, **24G1******** except for:
   1) new metal enclosure type B, meanwhile the original metal enclosure mentioned in original report named as type A;
   2) new base stand type B, meanwhile the original base stand named as type A;
   base stand type B can be rotated 90° clockwise, and base stand type A is stationary;
   3) flat LCD panel TPM238***-****.* (TPV).
3. Add new 27.0 inch models 27G2, **27G2********, which are identical to original models 27G1, **27G1******** except for:
   1) new metal enclosure type B, meanwhile the original metal enclosure mentioned in original report named as type A;
   2) new base stand type B, base stand type B can be rotated 90° clockwise;
   3) flat LCD panel TPM270***-****.* (TPV).
4. Update factory list due to client's requirement.
5. Correct the 27.0 inch panel information in table 1.5.1 of original report from "TPM236***-****.* (TPV)" to "TPM270***-****.* (TPV)" due to the typing error.

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

Change	Testing	Content:
1.	- 1.6.2 Input Current Test - 4.5.2 Maximum Temperature Test	See following pages for the details.
2-3.	- See "Summary of testing" on page 3	See following pages for the details.
4.	- N/A	See page 6 for the details.
5.	- N/A	See table 1.5.1 for the details.

See below table for differences among the models:

Model name	Power board	Main board	Metal enclosure	Base stand	Panel
24G1, **24G1********	715G9611	715G9584	Type A	Type A	Curved
24G2, **24G2******		715G9584	**Type B**	Type A, **Type B**	**Flat**
27G1, **27G1********		715G9584, **715G9500**	Type A	Type A	Curved
27G2, **27G2******		715G9584	**Type B**	Type A, **Type B**	**Flat**

Additional information:

1. 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).
2. The audio output jack of main board 715G9500 has also tested and founded in compliance with the requirements of EN 50332-2. Measured output power of the output jack: 62.0mV.

Definition of variable(s):

Variable:	Range of variable:	Content:
*	0-9, A-Z, a-z, – , \, /, + or blank	Represent different enclosure color and sales region for marketing purpose. No technology differences

History of amendments and modifications:

Ref. No. 17061072 001, dated 02.May.2018 (original test report)
Ref. No. 17061072 002, dated 17.Jun. 2019 (modification)

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
4	**PHYSICAL REQUIREMENTS**		**P**
4.1	**Stability**		**P**
	Angle of 10°	No overturn. (Test by client's request)	**P**
4.2	**Mechanical strength**		**P**
4.2.1	General	See below. After tests, unit comply with 2.1.1, 2.6.1 and 2.10.	**P**
	Rack-mounted equipment.		**N/A**
4.2.2	Steady force test, 10 N	Test performed on internal components. No components located such that distances according to 2.10 can be reduced.	**P**
4.2.3	Steady force test, 30 N	Test performed on internal metal enclosure.	**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])
LCD Panel with LED backlight (for 23.6 inch model)	TPV	TPM236***-****.* (*can be 0-9, A-Z or blank for marketing purpose).	23.6 inch TFT curve panel (power consumption: 27.1W; LED array voltage: 60V)	--	Tested in equipment
LCD Panel with LED backlight (for 27.0 inch model)	TPV	**TPM270***-****.* (*can be 0-9, A-Z or blank for marketing purpose).**	27.0 inch TFT curve panel (power consumption: 35.6W; LED array voltage: 42V)	--	Tested in equipment
LCD Panel with LED backlight (for 27.0 inch models) (Flat)	**TPV**	**TPM270***-****.* (*can be 0-9, A-Z or blank for marketing purpose).**	**27.0 inch TFT curve panel (power consumption: 29.49W; LED array voltage: 44.8V)**	--	**Tested in equipment**
LCD Panel with LED backlight (for 23.8 inch models) (Flat)	**TPV**	**TPM238***-****.* (*can be 0-9, A-Z or blank for marketing purpose).**	**23.8 inch TFT curve panel (power consumption: 16.5W; LED array voltage: 54V)**	--	**Tested in equipment**
Supplementary information: 1. [1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
Test on model 24G2, **24G2********, main board 715G9584						
HDMI mode						
90/50	0.372	--	18.3	F901	0.372	Maximum normal load
90/60	0.372	--	18.3	F901	0.372	Maximum normal load
100/50	0.346	1.5	18.2	F901	0.346	Maximum normal load
100/60	0.345	1.5	18.2	F901	0.345	Maximum normal load
240/50	0.212	1.5	18.4	F901	0.212	Maximum normal load

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

240/60	0.209	1.5	18.4	F901	0.209	Maximum normal load
264/50	0.201	--	18.6	F901	0.201	Maximum normal load
264/60	0.199	--	18.6	F901	0.199	Maximum normal load
VGA mode						
90/50	0.372	--	18.1	F901	0.372	Maximum normal load
90/60	0.370	--	18.1	F901	0.370	Maximum normal load
100/50	0.348	1.5	18.0	F901	0.348	Maximum normal load
100/60	0.344	1.5	18.0	F901	0.344	Maximum normal load
240/50	0.211	1.5	18.2	F901	0.211	Maximum normal load
240/60	0.209	1.5	18.2	F901	0.209	Maximum normal load
264/50	0.200	--	18.4	F901	0.200	Maximum normal load
264/60	0.199	--	18.5	F901	0.199	Maximum normal load
DP mode						
90/50	0.365	--	18.1	F901	0.365	Maximum normal load
90/60	0.366	--	18.1	F901	0.366	Maximum normal load
100/50	0.346	1.5	18.0	F901	0.346	Maximum normal load
100/60	0.345	1.5	18.0	F901	0.345	Maximum normal load
240/50	0.211	1.5	18.2	F901	0.211	Maximum normal load
240/60	0.209	1.5	18.2	F901	0.209	Maximum normal load
264/50	0.200	--	18.4	F901	0.200	Maximum normal load
264/60	0.198	--	18.4	F901	0.198	Maximum normal load
Test on model 27G2, **27G2********, main board 715G9584						
HDMI mode						
90/50	0.508	--	26.5	F901	0.508	Maximum normal load
90/60	0.507	--	26.5	F901	0.507	Maximum normal load
100/50	0.473	1.5	26.4	F901	0.473	Maximum normal load
100/60	0.473	1.5	26.5	F901	0.473	Maximum normal load
240/50	0.277	1.5	26.4	F901	0.277	Maximum normal load
240/60	0.272	1.5	26.4	F901	0.272	Maximum normal load
264/50	0.264	--	26.7	F901	0.264	Maximum normal load
264/60	0.258	--	26.6	F901	0.258	Maximum normal load
VGA mode						
90/50	0.507	--	26.2	F901	0.507	Maximum normal load

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

90/60	0.507	--	26.2	F901	0.507	Maximum normal load
100/50	0.472	1.5	26.1	F901	0.472	Maximum normal load
100/60	0.470	1.5	26.2	F901	0.470	Maximum normal load
240/50	0.278	1.5	26.1	F901	0.278	Maximum normal load
240/60	0.274	1.5	26.1	F901	0.274	Maximum normal load
264/50	0.266	--	26.4	F901	0.266	Maximum normal load
264/60	0.260	--	26.4	F901	0.260	Maximum normal load
DP mode						
90/50	0.505	--	26.3	F901	0.505	Maximum normal load
90/60	0.502	--	26.4	F901	0.502	Maximum normal load
100/50	0.475	1.5	26.2	F901	0.475	Maximum normal load
100/60	0.474	1.5	26.2	F901	0.474	Maximum normal load
240/50	0.279	1.5	26.2	F901	0.279	Maximum normal load
240/60	0.275	1.5	26.2	F901	0.275	Maximum normal load
264/50	0.267	--	26.4	F901	0.267	Maximum normal load
264/60	0.261	--	26.4	F901	0.261	Maximum normal load
Test on model 27G1, **27G1********, main board 715G9500						
HDMI mode						
90/50	0.525	--	26.9	F901	0.525	Maximum normal load
90/60	0.524	--	27.0	F901	0.524	Maximum normal load
100/50	0.490	1.5	26.9	F901	0.490	Maximum normal load
100/60	0.495	1.5	26.9	F901	0.495	Maximum normal load
240/50	0.298	1.5	26.8	F901	0.298	Maximum normal load
240/60	0.285	1.5	26.8	F901	0.285	Maximum normal load
264/50	0.274	--	26.9	F901	0.274	Maximum normal load
264/60	0.269	--	27.0	F901	0.269	Maximum normal load
DP mode						
90/50	0.522	--	26.9	F901	0.522	Maximum normal load
90/60	0.522	--	26.9	F901	0.522	Maximum normal load
100/50	0.485	1.5	26.8	F901	0.485	Maximum normal load
100/60	0.483	1.5	26.8	F901	0.483	Maximum normal load
240/50	0.284	1.5	26.8	F901	0.284	Maximum normal load
240/60	0.280	1.5	26.7	F901	0.280	Maximum normal load

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Clause	Requirement + Test	Result - Remark	Verdict

264/50	0.268	--	26.9	F901	0.268	Maximum normal load
264/60	0.265	--	26.8	F901	0.265	Maximum normal load

Supplementary information:

1. Maximum normal load: maximum brightness, maximum contrast, full white screen.

4.5	TABLE: Thermal requirements						P
	Supply voltage (V)	90V/ 60Hz	264V/ 60Hz	90V/ 60Hz	264V/ 60Hz	--	—
	Ambient T_{min} (°C)	29.8	26.8	28.9	29.1	--	—
	Ambient T_{max} (°C)	29.8	26.8	28.9	29.1	--	—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T_{max} (°C)
Test on model 24G2, **24G2********, main board 715G9584, HDMI mode		Horizontal		Vertical			
AC inlet CN901 body		40.6	38.7	45.5	43.6	--	56.8
C920 body (power board)		50.9	45.1	53.6	49.5	--	71.8
PCB near TH9901 (power board)		59.9	49.5	59.2	50.9	--	91.8
C914 body (power board)		52.5	46.0	53.5	48.8	--	71.8
L901 coil (power board)		64.1	49.3	65.3	52.4	--	91.8
PCB near BD901 (power board)		69.2	55.3	74.6	60.0	--	91.8
C902 body (power board)		65.7	56.1	71.1	62.3	--	86.8
T901 coil (power board)		75.2	70.7	75.5	72.8	--	96.8
T901 core (power board)		79.3	75.7	76.4	76.4	--	96.8
U902 body (power board)		67.1	63.2	74.3	71.0	--	86.8
C900 body (power board)		63.1	53.1	56.4	53.2	--	71.8
PCB near D901 (power board)		82.4	82.3	82.8	83.8	--	91.8
PCB near L801 (power board)		80.5	75.3	72.2	71.4	--	91.8
PCB near U801 (power board)		81.0	75.3	76.3	75.0	--	91.8
PCB near main IC (main board)		54.7	53.8	52.0	52.0	--	91.8
Meat enclosure		45.4	41.2	44.7	43.5	--	56.8
Plastic enclosure inside near T901		37.9	36.1	37.6	37.1	--	--
Plastic enclosure outside near T901		35.6	31.9	34.5	34.3	--	81.8
Panel surface		35.3	34.3	34.2	34.2	--	81.8

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:							
Temperature T of winding:	t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class

Supplementary information:

1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
2. With a specified ambient temperature of 40°C. Temperature limits are calculated as follows:

   Winding components providing safety isolation:

   - Class B: Tmax = 120 - 10 - 40 + Tamb

   Components with maximum absolute temperature of others:

   - Tmax = Tmax of component - 40 + Tamb

4.5	**TABLE: Thermal requirements**						**P**
	Supply voltage (V)	90V/ 60Hz	264V/ 60Hz	90V/ 60Hz	264V/ 60Hz	--	—
	Ambient T_{min} (°C)	30.3	32.1	26.9	29.4	--	—
	Ambient T_{max} (°C)	30.3	32.1	26.9	29.4	--	—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T_{max} (°C)
Test on model 27G2, **27G2********, main board 715G9584, HDMI mode		Horizontal		Vertical			
AC inlet CN901 body		37.2	37.8	36.3	36.4	--	56.9
C920 body (power board)		41.5	41.6	41.4	40.7	--	71.9
PCB near TH9901 (power board)		50.2	44.2	47.0	41.7	--	91.9
C914 body (power board)		44.4	42.6	42.3	40.5	--	71.9
L901 coil (power board)		50.2	44.4	48.1	42.3	--	91.9
PCB near BD901 (power board)		54.1	48.2	54.4	47.2	--	91.9
C902 body (power board)		51.3	49.2	53.0	50.0	--	86.9
T901 coil (power board)		58.4	58.4	55.6	56.1	--	96.9
T901 core (power board)		60.4	62.2	56.7	59.0	--	96.9
U902 body (power board)		51.4	55.2	53.5	57.1	--	86.9
C900 body (power board)		49.2	47.4	44.9	44.5	--	71.9
PCB near D901 (power board)		62.7	67.5	59.8	64.3	--	91.9
PCB near L801 (power board)		57.2	57.5	50.4	51.2	--	91.9
PCB near U801 (power board)		67.4	66.0	61.3	61.8	--	91.9

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Clause	Requirement + Test	Result - Remark	Verdict

PCB near main IC (main board)	50.6	51.4	46.1	46.0	--	91.9
Meat enclosure	39.5	39.9	36.3	37.3	--	56.9
Plastic enclosure inside near T901	33.8	35.5	30.5	31.4	--	--
Plastic enclosure outside near T901	32.2	33.8	29.4	30.9	--	81.9
Panel surface	33.8	34.9	30.3	31.5	--	81.9

Supplementary information:

Temperature T of winding:	t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class

Supplementary information:

1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
2. With a specified ambient temperature of 40°C. Temperature limits are calculated as follows:

   Winding components providing safety isolation:

   - Class B: Tmax = 120 - 10 - 40 + Tamb

   Components with maximum absolute temperature of others:

   - Tmax = Tmax of component - 40 + Tamb

4.5	TABLE: Thermal requirements						P
	Supply voltage (V)	90V/ 60Hz	264V/ 60Hz	--	--	--	—
	Ambient T_{min} (°C)	29.3	29.2	--	--	--	—
	Ambient T_{max} (°C)	29.3	29.2	--	--	--	—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T_{max} (°C)
Test on model 27G1, **27G1********, main board 715G9500, HDMI mode							
AC inlet CN901 body		38.6	37.5	--	--	--	59.2
C920 body (power board)		43.0	41.3	--	--	--	74.2
PCB near TH9901 (power board)		53.4	46.3	--	--	--	94.2
C914 body (power board)		47.0	43.9	--	--	--	74.2
L901 coil (power board)		53.9	46.4	--	--	--	94.2
PCB near BD901 (power board)		49.5	44.7	--	--	--	94.2
C902 body (power board)		49.7	46.6	--	--	--	89.2
T901 coil (power board)		60.7	59.8	--	--	--	99.2

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Clause	Requirement + Test	Result - Remark	Verdict

T901 core (power board)	62.2	63.1	--	--	--	99.2
U902 body (power board)	52.1	54.7	--	--	--	89.2
C900 body (power board)	51.9	48.0	--	--	--	74.2
PCB near D901 (power board)	62.8	67.0	--	--	--	94.2
PCB near L801 (power board)	59.3	58.0	--	--	--	94.2
PCB near U801 (power board)	70.7	68.4	--	--	--	94.2
PCB near main IC (main board)	47.1	46.7	--	--	--	94.2
Meat enclosure	42.2	41.3	--	--	--	59.2
Plastic enclosure inside near T901	36.5	35.9	--	--	--	--
Plastic enclosure outside near T901	34.5	34.0	--	--	--	84.2
Panel surface	34.4	33.9	--	--	--	84.2

Supplementary information:

Temperature T of winding:	t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class

Supplementary information:

1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
2. With a specified ambient temperature of 40°C. Temperature limits are calculated as follows:

   Winding components providing safety isolation:

   - Class B: Tmax = 120 - 10 - 40 + Tamb

   Components with maximum absolute temperature of others:

   - Tmax = Tmax of component - 40 + Tamb

5.3	TABLE: Fault condition tests		P
	Ambient temperature (°C) .....:	See below	—
	Power source for EUT: Manufacturer, model/type, output rating .....:		—

Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
C907	s-c	264	5min	F901	0.004	Unit shut down, no hazard.
C907	o-c	264	5min	F901	0.103	Unit operated normally, no excessive temp., no damaged, no hazards.
C942	s-c	264	5min	F901	0.004	Unit shut down, no hazard.

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Clause	Requirement + Test	Result - Remark	Verdict

C942	o-c	264	5min	F901	0.103	Unit operated normally, no excessive temp., no damaged, no hazards.
Test on model 24G2, **24G2********, main board 715G9584						
Ventilation openings	blocked	264	4.0hrs	F901	0.199	Unit operated normally, no hazards, no damaged. After temperature reached stable, max. measured temp. in T901 coil = 75.5°C, T901 core = 80.3°C, U902 = 68.6°C, ambient = 27.5°C.
Test on model 27G2, **27G2********, main board 715G9584						
Ventilation openings	blocked	264	4hrs	F901	0.258	Unit operated normally, no hazards, no damaged. After temperature reached stable, max. measured temp. in T901 coil = 57.8°C, T901 core = 61.7°C, U902 = 54.7°C, ambient = 25.7°C.
Test on model 27G1, **27G1********, main board 715G9500						
Ventilation openings	blocked	264	4hrs	F901	0.269	Unit operated normally, no hazards, no damaged. After temperature reached stable, max. measured temp. in T901 coil = 61.8°C, T901 core = 65.3°C, U902 = 57.0°C, ambient = 24.6°C.

Supplementary information:

1. The unit passed 3000V hi-pot test between primary and accessible output connector after single fault test above.
2. In fault column, where s-c=short-circuited, o-c=open-circuited.
3. For heating test mentioned above was tested under HDMI mode.
4. Temp. limit of transformer according to table C.1 is 175°C - 10 - (40°C - Tamb).

Clause	Requirement + Test	Result - Remark	Verdict

4.6.1, 4.6.2	**Table: enclosure openings**		**P**
Location	Size (mm)	Comments	
Metal chassis type B a) at horizontal orientation, b) at vertical orientation (power board on top)			
a) Top b) Right	1) One oval opening: 49.77mm x 14.14mm 2) Two circle openings: ∅6.63mm 3) One rectangle opening: 19.82mm x 8.31mm	1) Secondary components C907 and C942 that cannot complied with LPS have passed the simulated fault tests. No other hazardous part within vertical projection of 5° from the opening. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
a) / b) Rear	1) One rectangle opening above power bard: 38.00mm x 17.59mm 2) One rectangle opening above main board: 50.53mm x 30.81mm	1) No hazardous part within vertical projection of 5° from the opening. 2) No hazardous part within vertical projection of 5° from the opening when using with base stand type A. And the opening has been coverd by V-0 mylar sheet when using with base stand type B.	
a) Left b) Top	One rectangle opening above power bard: 38.00mm x 8.99mm	1) No hazardous part within vertical projection of 5° from the opening.	
a) Right b) Bottom	1) One rectangle opening above power bard: 18.34mm x 12.37mm 2) One rectangle opening above main board: 50.53mm x 20.74mm	1)-2) No hazardous part within vertical projection of 5° from the opening when using with base stand type A. And the opening has been coverd by V-0 mylar sheet when using with base stand type B. Comply with bottom opening for fire enclosure.	
a) Bottom b) Left	Under power board side: Numerous ∅1.70mm holes; spacing of holes (centre to centre): 3.9mm; thickness of metal: min.0.81mm;	Comply with bottom opening for fire enclosure. Main board is supplied by LPS, not required for fire enclosure.	

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

Figure 1. Front view of models 24G2, **24G2********; 27G2, **27G2********

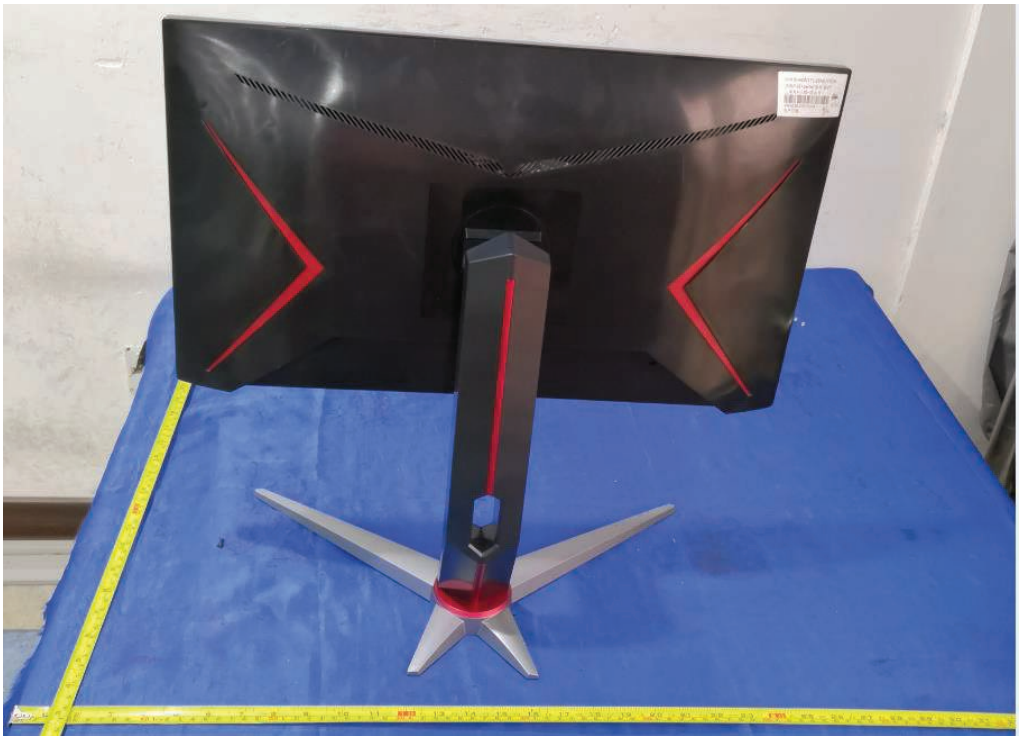

Figure 2. Back view of models 24G2, **24G2********; 27G2, **27G2********

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

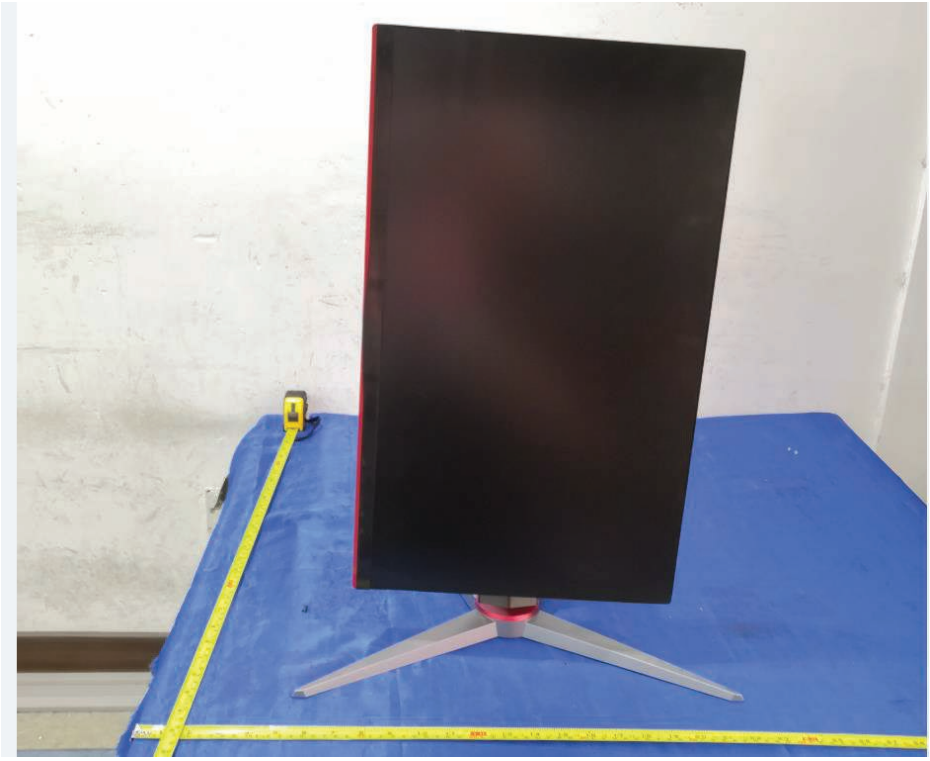

Figure 3. Front view of models 24G2, **24G2********; 27G2, **27G2********

Figure 4. Back view of models 24G2, **24G2********; 27G2, **27G2********

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

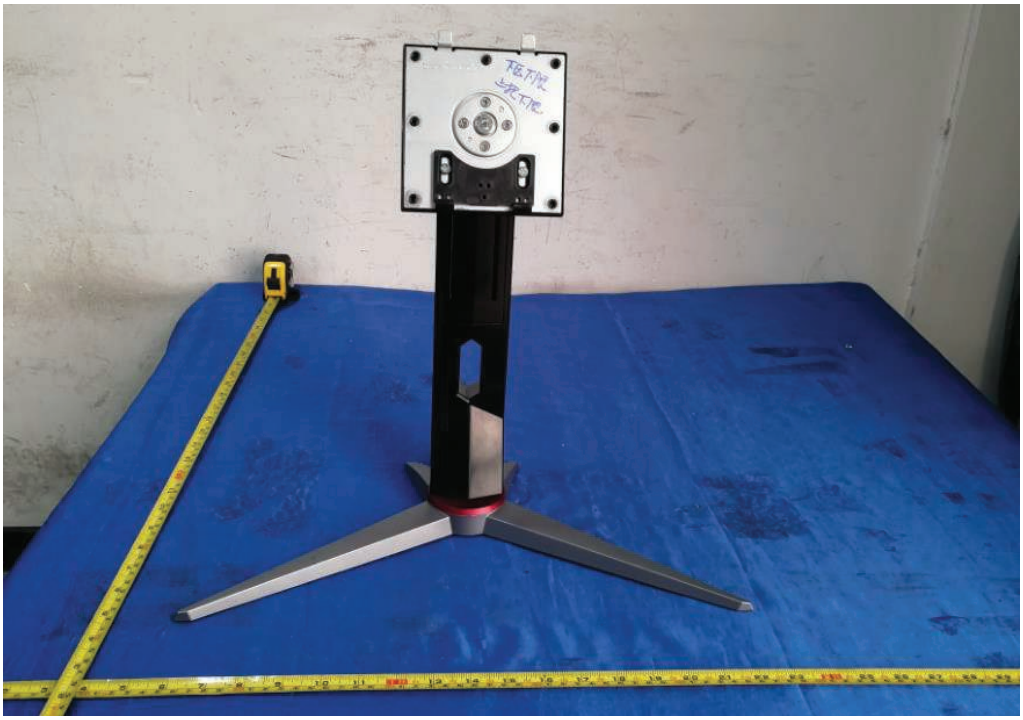

Figure 5. Base stand type B

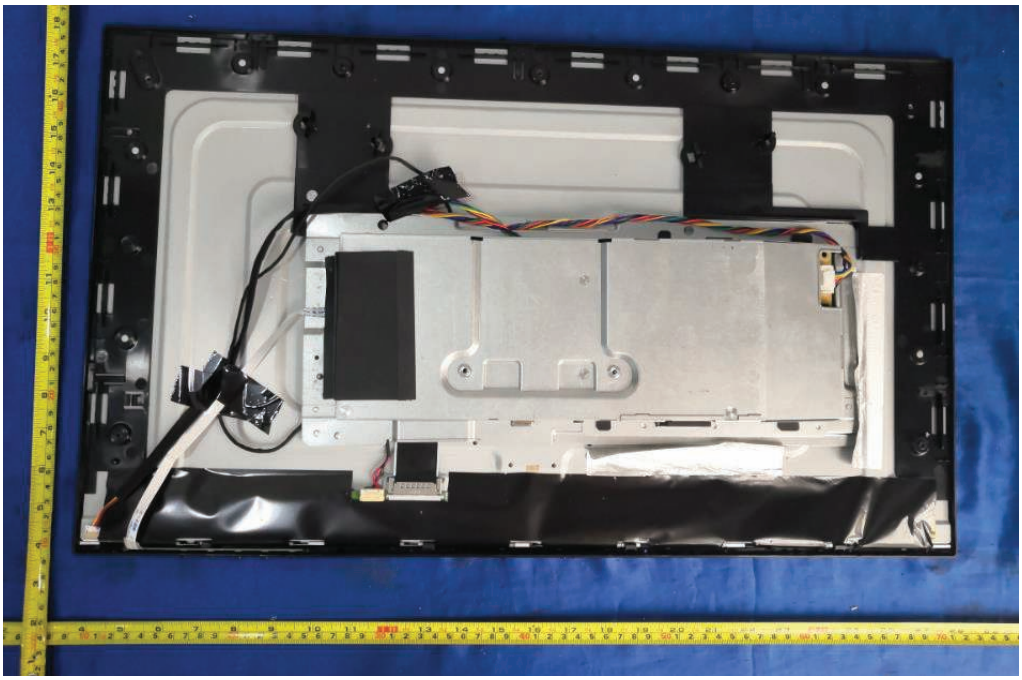

Figure 6. Metal enclosure type B

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

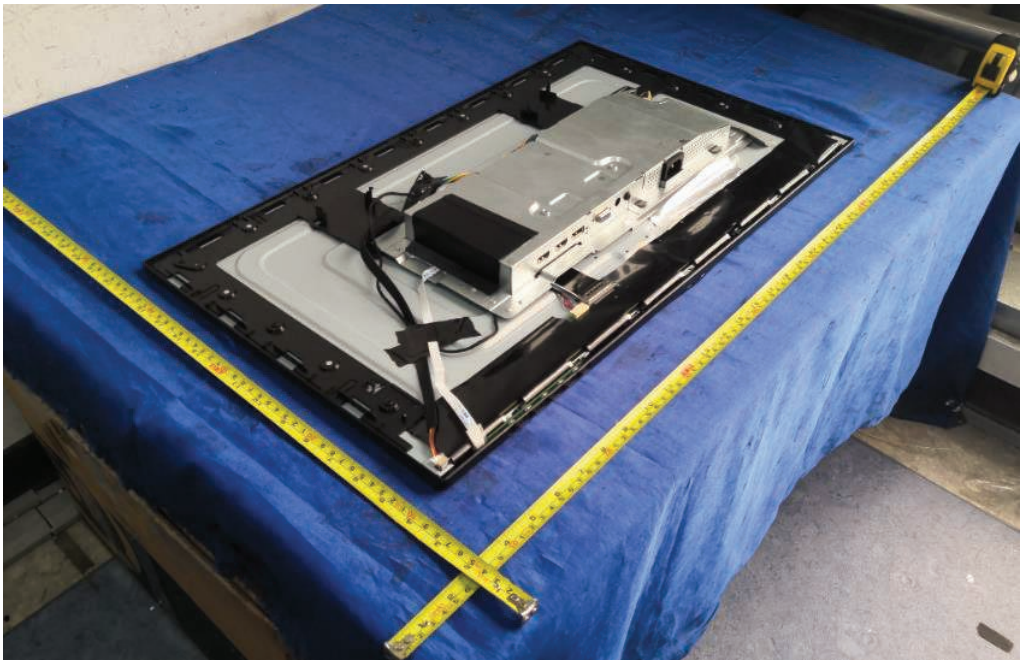

Figure 7. Metal enclosure type B

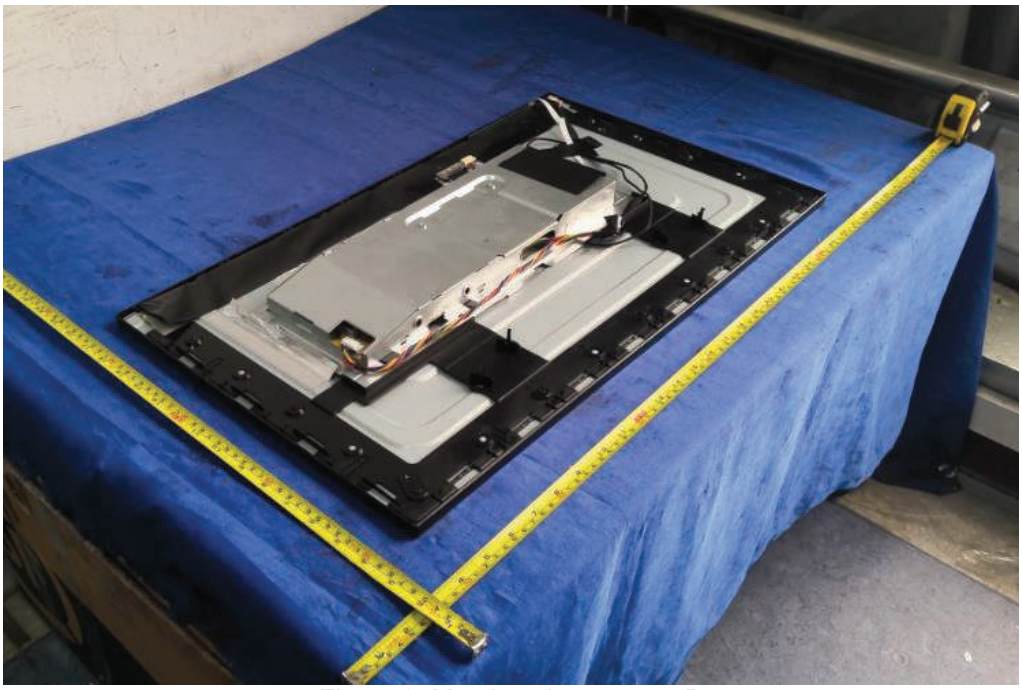

Figure 8. Metal enclosure type B

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

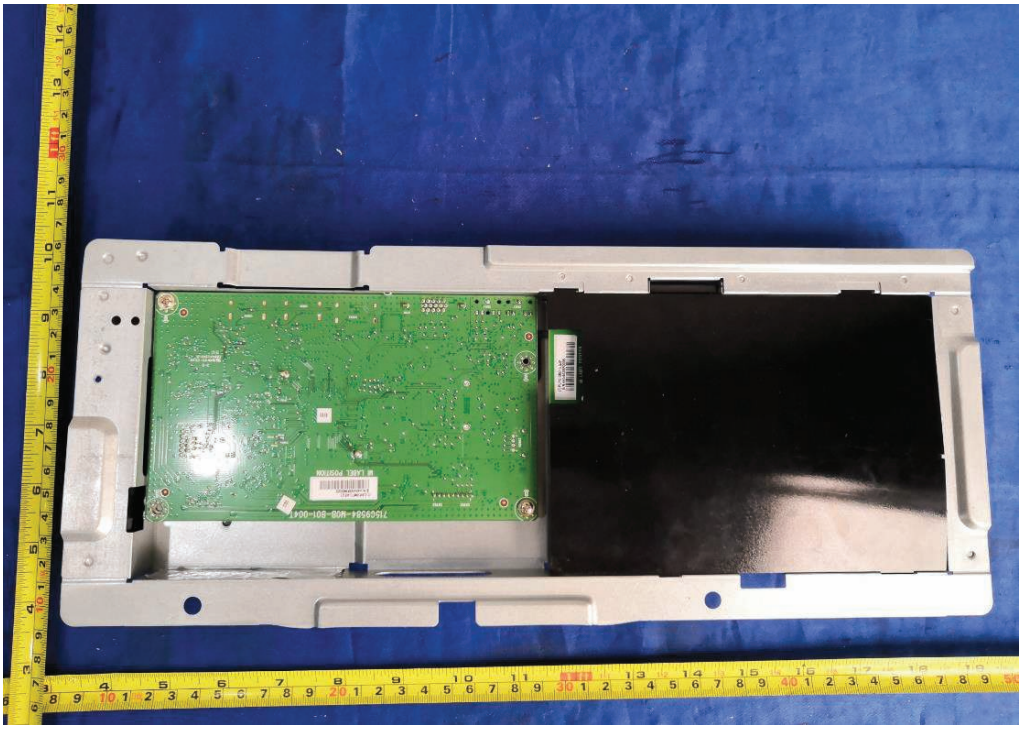

Figure 9. Internal view of metal enclosure type B

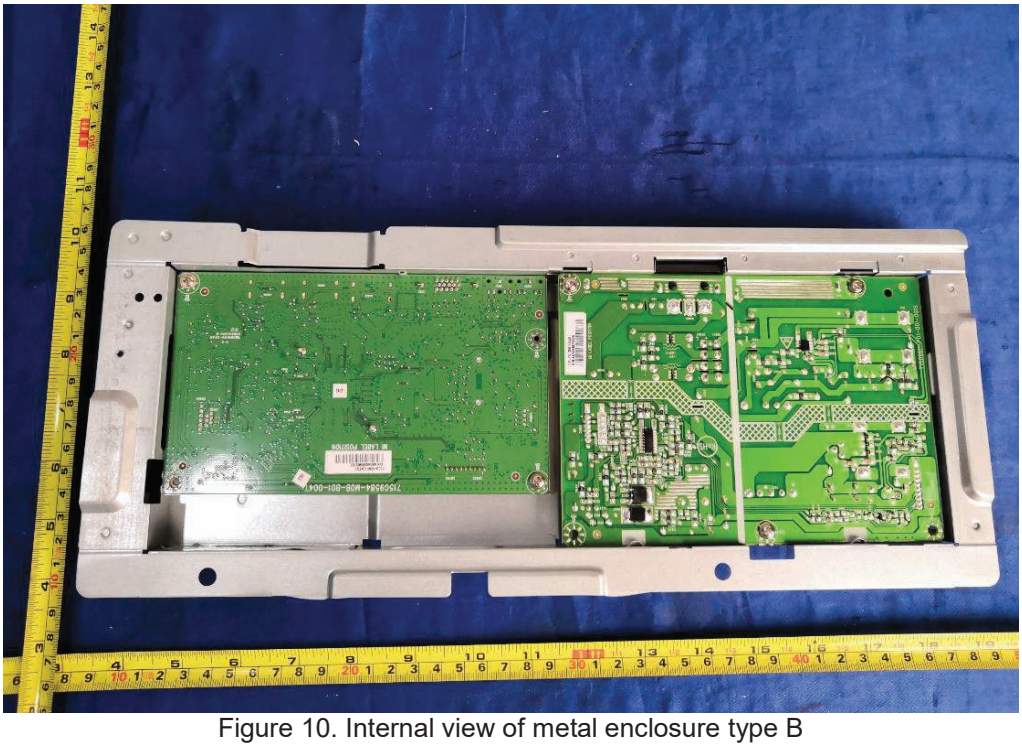

Figure 10. Internal view of metal enclosure type B

Product: LCD Monitor

Type Designation: 24G1, **24G1********, 24G2, **24G2********; 27G1, **27G1********, 27G2, **27G2******** (* can be 0-9, A-Z, a-z, “+”, “-“, “/”, “\” or blank, Represent different enclosure color and sales region for marketing purpose. No technology differences)

Figure 11. Main board 715G9500 used for models 27G1, **27G1********

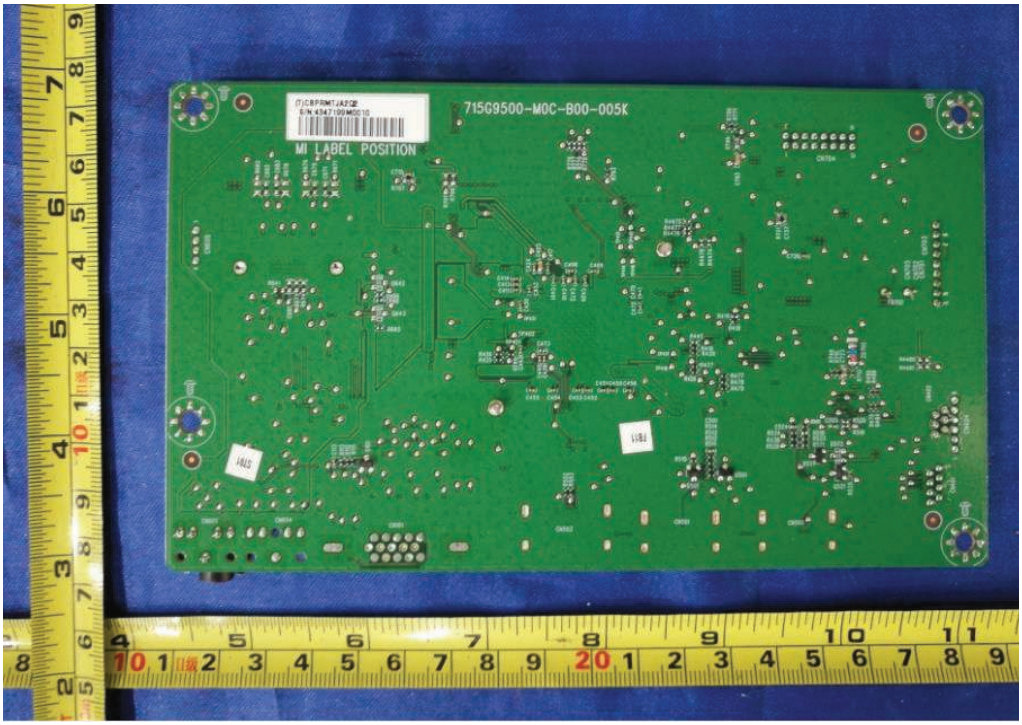

Figure 12. Main board 715G9500 used for models 27G1, **27G1********