

Compliance Constructional Data Report (CDR)

Report Number	160800648SHA-001 (Original Issued:	9-Aug-2016	Revised: None			
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 7.0						
Applicant	Top Victory Electronics Co.,Ltd.	(Taiwan)	Manufacturer	TPV Electronics(Fujian) Co., Ltd			
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Manufacturer 2	TPV Display Technolog Co.,Ltd	y (Beihai)	Manufacturer 3	TPV Technology(Beijing)Co.,Ltd.			
Address	China Electronic Beihai Park,Northeast of the C between Taiwan Road a Beihai City,Guangxi	rossing	Address	No.10 Jiuxianqiao Rd. Chao Yang District Beijing			
Country	China		Country	China			
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Manufacturer 4	L&T Display Technology (Fujian) Ltd.		Manufacturer 5	TPV Display Technology(Wuhan)Co.,Ltd			
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2.0 Product Description Display(LCD Monitor) **Product** Brand name AOC Description The product covered by this report is a LCD Display (LED backlighting) Models E2775SJ(270LM00023);E2775SQ(270LM00023);I2775PQU(270LM00023) Model Name:E2775SJ;E2775SQ;I2775PQU Model Similarity Model Number:270LM00023 Different model names mean different sales regions. 100-240VAC,50/60Hz 1.5A Ratings NA Other Ratings 02/01/2016 Date available Market availability Yes Last Mfg date NA Major Markets Australia, New Zealand, Canada, Europe, Japan, Switzerland, Taiwan, United States Trans Type Initial Certification: Model Meets ENERGY STAR Requirements NΑ Notes Model Name or Number **Identifying Information** Additional model details (optional) Original Certificate actual issued date for model tested (only applies to revised reports) NA

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3.0 Product Photographs

Photo 1 - External View(front)



Photo 2 - External View(back)



3.0 Product Photographs

Photo 3 - Main Board



2

Photo 4 - Main Board



3

3.0 Product Photographs

Photo 5 - Main Board

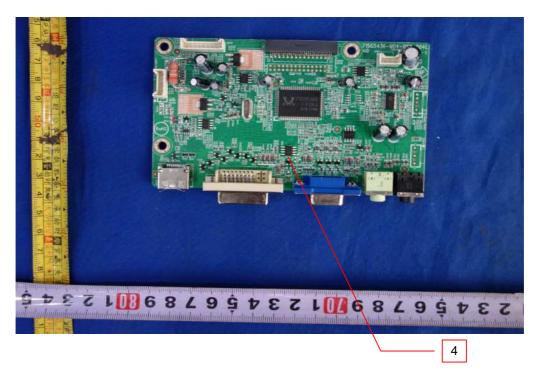
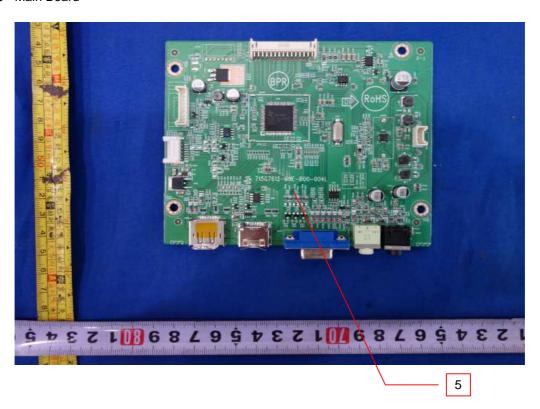


Photo 6 - Main Board



3.0 Product Photographs

Photo 7 - Power Board

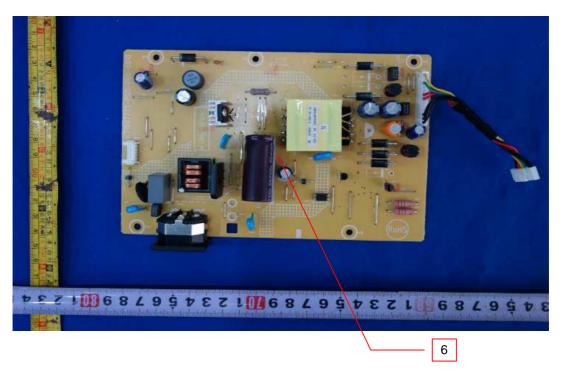
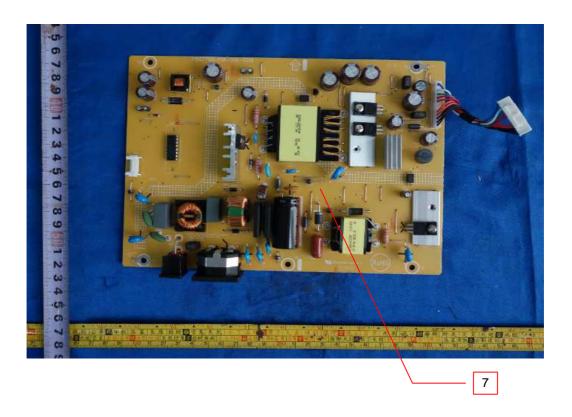


Photo 8 - Power Board



4.0 Critical Components								
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³		
1 1	4	LOD David	TPV	TPM270WF1	27.0inch,TFT type,with LED	NR		
	'	LCD Panel	AUO	M270DAN02.0	-backlight.Tested model is TPV / TPM270WF1			
3	2	-Main Board	TPV	715G7762	I/P:5Vdc/3.25A maxTested model is 715G5436	NR		
4	3			715G7742				
5	4			715G5436				
6	5			715G7612				
7	6	Power Board	TPV	715G7775	I/P:100-240VAC,50/60Hz 1.5A max.output:16Vdc/2A 5V,3.5A.This is tested model.	NR		
8	8 7			715G7760	I/P:100-240VAC,50/60Hz 1.5A max.output:19Vdc/3.5A 5V,3.5A			

NOTES:

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¹⁾ Not all item numbers are indicated (called out) in the photos, as their location is obvious.

^{2) &}quot;Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

³⁾ Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates: a) Unlisted and only visual examination is necessary or b) marks are not required to be verified.

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5.0 Critical Unlisted CEC Components

Periodic Evaluation of Critical Unlisted Components by the Intertek Component Evaluation Centers (CEC) is not required under the INTERTEK ENERGY STAR Program.

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6.0 Critical Features

<u>Critical Features/Components</u> - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the ENERGY STAR ® Program Requirements.

<u>Listed Component</u> - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

<u>Recognized Component</u> - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

<u>Unlisted Component</u> - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

- 1. Product Safety Compliance NA
- 2. EMI Compliance NA
- 3. Schematics NA
- 4. <u>Installation, Operating and Safety Instructions</u> Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No.1-2 for details.
- 5. Package Markings NA
- 6. Warranty Information NA
- 7. Marking Label Refer to Illustration No.3. for details.

7.0 Illustrations

Illustration 1 - Installation and Safety instruction

Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



NOTE: A NOTE indicates important information that helps you make better use of your computer system.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

Power

⚠ The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

🔼 The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

🔼 Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.

Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

The wall socket shall be installed near the equipment and shall be easily accessible.

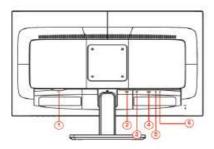
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7.0 Illustrations

Illustration 2 - Installation and Safety instruction(Cont.)

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



- 1 Power
- 2 HDMI
- 3 DVI
- 4 Analog (D-Sub 15-Pin VGA cable)
- 5 AUDIO IN
- 6 Earphone out

To protect equipment, always turn off the PC and LCD monitor before connecting.

- 1 Connect the power cable to the AC port on the back of the monitor.
- 2 Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.
- 3 Optional (Requires a video card with DVI port) Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer's DVI port.
- 4 Optional (Requires a video card with HDMI port) Connect one end of the HDMI cable to the back of the monitor and connect the other end to the computer's HDMI port.
- 5 Turn on your monitor and computer.

7.0 Illustrations

Q40G027N-615-54A

Illustration 3 - Display Marking Label







8.0 Test Summary **Evaluation Period** 8/8/2016-8/8/2016 Project No. 160800648SHA Sample ID. 0160725-38-001 Sample Rec. Date 25-Jul-2016 Condition Prototype Intertek Testing Services Shanghai Limited EPA ID(1105997) **Test Location** Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China Testing Lab Test type Qualification **Test Procedure** Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. The following requirements were evaluated: Required Submittal Information Submittal Data E2775SJ Model Name and/or Number tested (270LM00023) Date tested 08/08/2016 Serial number of Unit tested NA ENERGY_STAR_Specification_Version* 7.0 Product_Type* Monitor Display_Type* TN LCD Other_Display_Type NA Display Backlight Technology* LED Other_Display_Backlight_Technology NA Display_Contrast_Ratio* 1000 Image_Height_in* 13.2 Image_Width_in* 23.5 Diagonal_Screen_Size_in* 27 Screen_Area_sq_in* 311.66 Aspect_Ratio' 1.78 Native_Vertical_Resolution_lines* 1080 Native Horizontal Resolution lines 1920 Total_Native_Resolution_megapixels' 2.0 Native Pixel Density Dp pixels sq in* 6653 Screen Refresh Rate Hz* 60 Color_Gamut* 33.7 Enhanced_Performance_Criteria* None Reported_Contrast_Ratio_at_85_deg_Left_Horiz_Viewing_Angle Reported_Contrast_Ratio_at_85_deg_Right_Horiz_Viewing_Angle Is_This_Model_Shipped_With_an_External_Power_Supply_EPS* No Is_Model_Sold_Through_Enterprise_Channels* Yes Other_Available_Interfaces NA Other_Features NA Signal_Interface' **HDMI 1.4** Other Interface NΑ Other Power Source NA VESA_FPDM2_Test_Pattern_Used* No Other Mechanism for Automatically Entering Sleep or Off Mode NA Default_Delay_Time_to_Sleep_min 0 Does_Model_Have_a_Forced_Menu_at_Initial_Start_up* No User_Interface* No Maximum_Measured_Luminance_cd_m_2* 303 Maximum_Reported_Luminance_cd_m_2* 300 As_shipped_Luminance_cd_m_2 245 As_tested_Luminance_cd_m_2* 200 On_Mode_Power_at_12_Lux_at_115_Volts_W On_Mode_Power_at_300_Lux_at_115_Volts_W Measured On Mode Power at 115 Volts W 18.71 Reported_On_Mode_Power_at_115_Volts_W 18.71 Maximum On Mode Power Limit for Signage Certification W

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8.0 Test Summary Measured_Sleep_Mode_Power_at_115_Volts_W 0.31 Reported_Sleep_Mode_Power_at_115_Volts_W 0.31 Measured_Disconnected_Sleep_Mode_Power_at_115_Volts_W Maximum_Sleep_Mode_Power_Limit_for_Signage_Certification_W Measured Off Mode Power at 115 Volts W 0.17 Reported_Off_Mode_Power_at_115_Volts_W 0.17 Measured_Total_Energy_Consumption_at_115_Volts_kWh 59.13 Reported_Total_Energy_Consumption_at_115_Volts_kWh 59.13 Max_Total_Energy_Consumption_Limit_for_Monitor_kWh 64 On_Mode_Power_at_12_Lux_at_230_Volts_W On_Mode_Power_at_300_Lux_at_230_Volts_W Measured_On_Mode_Power_at_230_Volts_W 19.05 Measured_Sleep_Mode_Power_at_230_Volts_W 0.42 Measured_Disconnected_Sleep_Mode_Power_at_230_Volts_W Measured_Off_Mode_Power_at_230_Volts_W 0.25 Measured_Total_Energy_Consumption_at_230_Volts_kWh 60.8 True_Power_Factor_PF_During_On_Mode_Testing_at_115_Volts_W 0.5 True_Power_Factor_PF_During_On_Mode_Testing_at_230_Volts_W 0.5 Number_of_Sleep_Modes_in_Addition_to_Default_Sleep_Mode* 0 Color_Spaces_Supported* sRGB VGA, DVI, HDMI Available_Signal_or_Data_Interfaces* 1.4 Model Features* **Built-In Speakers** Features_Enabled_in_Default_On_Mode* **Built-In Speakers** Features_Enabled_in_Default_Sleep_Mode* None Wireless_Technologies_Supported* None Low_Power_Wireless_Technologies* None Ethernet_Supported* None Power_Source' Ac power supply Display Power Management Mechanism for Automatically Entering Sleep or Off Mode* Signaling On_Mode_Power_at_12_Lux_at_100_Volts_50Hz_W On_Mode_Power_at_300_Lux_at_100_Volts_50Hz_W Measured_On_Mode_Power_at_100_Volts_50Hz_W 19.74 Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W 0.29 Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_50Hz_W Measured_Off_Mode_Power_at_100_Volts_50Hz_W 0.14 Measured_Total_Energy_Consumption_at_100_Volts_50Hz_kWh 62.11 On_Mode_Power_at_12_Lux_at_100_Volts_60Hz_W On_Mode_Power_at_300_Lux_at_100_Volts_60Hz_W Measured_On_Mode_Power_at_100_Volts_60Hz_W 18.86 Measured_Sleep_Mode_Power_at_100_Volts_60Hz_W 0.29 Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_60Hz_W Measured_Off_Mode_Power_at_100_Volts_60Hz_W 0.17 Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh 59.48 8.1 Signatures A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0. Completed by: Jarree Jiang Reviewed by: Jessica He Title: Engineer Title: Engineer know the Signature: Signature:

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9.0 Correlation Page For Multiple Listings The following products, which are identical to those identified in this report except for model number and Company name. **BASIC LISTEE** Top Victory Electronics (Taiwan) Co.,Ltd. 10F., No. 230, Liancheng Rd. Zhonghe City. Taipei Country 23553 Address 1065104 Country Taiwan EPA ID Product Display(LCD Monitor) David.Cheng Contact +886-02-82261668 Phone FAX +886-02-82261707 Email David.cheng@tpv-tech.com MULTIPLE LISTEE 1 None Address EPA ID Country Contact Phone FAX Email **Brand Name** Market availability Last Mfg date Date available Major Markets Trans Type Notes ASSOCIATED **MANUFACTURER** Address Country MULTIPLE LISTEE 1 MODELS **BASIC LISTEE MODELS** Model Name or Number Identifying Information Additional model details (Optional) MULTIPLE LISTEE 2 None Address EPA ID Country Contact Phone FAX Email **Brand Name** Date available Market availability Last Mfg date Major Markets Trans Type Notes ASSOCIATED **MANUFACTURER** Address Country MULTIPLE LISTEE 2 MODELS BASIC LISTEE MODELS Model Name or Number **Identifying Information** Additional model details (Optional)

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10.0 General Information

The Applicant has agreed to produce products in accordance with the requirements of this report and to maintain compliance with all ENERGY STAR Product Specification requirements.

Changes to Product Design / Alternate Components

As part of this agreement, the Applicant also has agreed to notify Intertek and to request authorization prior to making any changes to the product (including but not limited to using alternate parts, components or materials) which may effect compliance with the ENERGY STAR Product Specification. Those parts, components or materials identified as critical have been listed in Section 4.0 of this report.

Product Surveillance

Under this Program, market surveillance is conducted on an annual basis. For each Product Type defined in the EPA ENERGY STAR Program, Intertek will select 10% of those certified products for Verification Testing in accordance with the requirements of the EPA ENERGY STAR Product Specification.

The primary source for products under Verification Testing will be the retail market. Applicants whose products are selected for Verification Testing are required to provide a list of locations where the product might be obtained. The Applicant is responsible for the cost of procurement and the Verification Tests. Should products not be readily available on the retail market, the Applicant is required to provide access to distribution warehouses to allow selection of those products. Should the product not be available on the retail market or if procurement from the retail market is not feasible, then alternate arrangements for Verification Testing will be made by the Intertek

As a general rule under the Verification Testing requirements, the products must achieve energy values within 5% of the required Tier Limit.

Compliance with ENERGY STAR Product Specifications under Verification Testing

Products found non-compliant with ENERGY STAR Product Specification under Verification Testing, will be reported to the EPA within 48 hours and the product removed from the ENERGY STAR Program. If it is determined during Verification Testing that changes have been made to product design or critical components, the Certification Body may increase Verification Testing frequency of those products.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to: Intertek Testing Services Shanghai Limited ETL Component Evaluation Center

Building No. 86, 1198 Qinzhou Road (North)

Shanghai 200233, China

Attn: Ms. Dansy Xu

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

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11.0 Manufacturing and Production Tests

Manufacturing and Production tests are not required under the INTERTEK ENERGY STAR Program. However, Intertek encourages the use of such ongoing product testing to ensure compliance with the EPA ENERGY STAR Product Specifications.

12.0 Revision Summary The following changes are in compliance with the declaration of Section 8.1:						
The following changes are in compliance with the declaration of Section 8.1:						
Date/ Proj # Site ID	Project Handler/	Section		Description of Change		
,				None		
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