

COMPLIANCE Constructional Data Report (CDR)

1.0 Reference and Address									
Report Number	200401865SHA-002 Original Issued:	Revised: None							
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 8.0								
Applicant	Top Victory Electronics (Taiwan) Co.,Ltd.	Manufacturer	TPV Electronics(Fujian) Co., Ltd						
Address	10F.,No.230,Liancheng Rd. Zhonghe City. Taipei Country 23553	Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province						
Country	Taiwan	Country	P.R.China						
Contact	David.Cheng	Contact	Winter.Feng						
Phone	+886-2-82261668-2375	Phone	+86-591-85285555						
FAX	+886-2-82261668-2375	FAX	+86-591-85285447						
Email	David.cheng@tpv-tech.com	Email	winter.feng@tpv-tech.com						
Manufacturer 2	TPV Display Technology (Beihai)		TPV Display Technology (China) Co., Ltd.						
Address	China Electronic Beihai Industry Park,Northeast of the Crossing between Taiwan Road and Jilin Road Beihai City,Guangxi	Address	No.106 Jinghai 3 Rd., BDA, Beijing City						
Country	China	Country	China						
Contact	Yin Tao	Contact	Nancy.Shang						
Phone	18277949678	Phone	86(10)64326699-8312						
FAX	86-779-2232270	FAX	NA						
Email	yin.tao@tpv-tech.com	Email	lijia.shang@tpv-tech.com						
Manufacturer 4	L&T Display Technology (Fujian) Ltd.	Manufacturer 5	TPV Display Technology(Wuhan)Co.,Ltd						
Address	Optoelectronic Park, Rongqiao Economic and Technological Development Zone,Fuqing City,Fujian	Address	Unique No.11 Zhuankou Development District of Economic Technological Development Zone Wuhan						
Country	China	Country	China						
Contact	Shan Xu	Contact	Zhe.Zhou						
Phone	86(591)8651-5556	Phone	86(27)-6884 3822						
FAX	86(591)8651-5556	FAX	86(27)-6884 3822						
Email	shan.xu@Intdisplayfj.com	Email	zhe.zhou@tpv-tech.com						

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2.0 Product Description Product Display (LCD Monitor) **Brand Name** AOC The product covered by this report is a Display (LCD Monitor) Description Q27P2Q(Q27P2) Models Model Similarity N/A 100-240Vac,50/60Hz,1.5A Ratings Other Ratings NΑ TPV Date Available 04/20/2020 Market Availability Yes OEM Electronics(Fujian) Co. Ltd Canada, Japan, Taiwan, United States Major Markets Initial Certification: Model Meets ENERGY STAR Requirements Trans Type Notes NA Additional Model Model Name and Number Identifying Information Details (Optional) Original Certificate Actual Issued Date for Model Tested (Only Applies to Revised Reports) NΑ

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3.0 Product Photographs

Photo 1 - External View (front)



Photo 2 - External View (back)



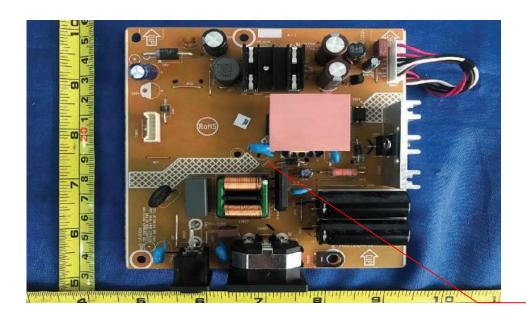
3.0 Product Photographs

Photo 3 - Main Board



2

Photo 4- Power Board



3

4.0 Critical Components									
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity			
1	1	LCD panel	TPV	TPM270WF1	27 inch,TFT type,with LED backlight	NR			
3	2	Main Board	TPV	715G9485	I/P: max. 19Vdc, 2.5A	NR			
4	3	Power Board	TPV	715G7610	I/P:100-240V,50/60Hz,1.5A; O/P:max.19Vdc,2.5A	NR			

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

Critical Features/Components - 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.

Listed Component - 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.

Recognized Component - 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.

Unlisted Component - 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.

Construction Details - 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. Installation, Operating and Safety Instructions 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
- 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



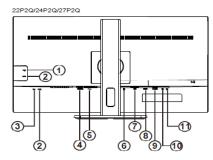
WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

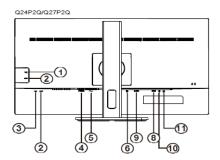
7.0 Illustrations

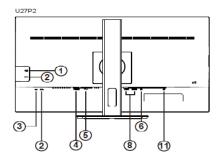
Illustration 2 - Installation and Safety instruction (Continued)

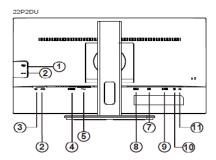
Connecting the Monitor

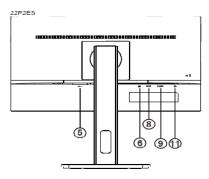
Cable Connections In Back of Monitor and Computer:











- USB downstream+USB charging
- USB downstream
- 3. USB upstream
- 4. Power switch

7.0 Illustrations

Illustration 3 - Marking Label



8.0 Test Summary							
	24/2020-4/24/2	2020	Project No.	2004018653SHA			
	Apr-2020	Condition Prototype		0200401-79-096			
Int	Intertek Testing Services Shanghai Limited FPA ID(1105997)						
		1198 Qinzhou Road (North), Shanghai :					
	esting Lab	, , ,		Qualification			
Determination of the resu	ult includes co	nsideration of measurement uncertaint					
methods. The product w	vas tested as ir	ndicated below with results in conforma	nce to the releva	nt test criteria.			
The following requiremen	nts were evalu	ated:					
Required Submittal Information				Submittal Data			
Model Name and/or Num	mber tested			Q27P2Q(Q27P2)			
Date tested				04/24/2020			
Serial number of Unit tes				1 sample			
ENERGY_STAR_Specifi	fication_Versio	n*		8.0			
Product_Type*				Monitor			
Tiled_Display_System							
Maximum_Tiled_Configu	uration						
Panel_Type*				Other			
Other_Panel_Type				TFT LCD			
Diagonal_Screen_Size_i	in*			27			
Screen_Area_sq_in*				310.47			
Display_Contrast_Ratio*				1000			
Native_Vertical_Resoluti	ion_lines*			2560			
Native_Horizontal_Resol	lution_lines*			1440			
Total_Native_Resolution				3.7			
Native_Pixel_Density_Dp				11874			
As_Tested_Screen_Refr		*		60			
Maximum_Screen_Refre				60			
Enhanced_Performance	e_Criteria*			Yes			
Color_Gamut				42.1			
		Left_Horiz_Viewing_Angle		85			
		Right_Horiz_Viewing_Angle		85			
High_Dynamic_Range_H				N/A			
Other_Available_Interfac	ces						
Other_Features							
Signal_Interface*				DisplayPort 1.2			
Other_Interface							
USB_C_with_Power_De		ed*		No			
Maximum_Power_Delive	ery_W						
Other_Power_Source							
Does_Model_Have_a_Fo				No			
Maximum_Measured_Lu				374.2			
Maximum_Reported_Lur		1_2*		300			
As_shipped_Luminance_				309.1			
As_tested_Luminance_c				200			
On_Mode_Power_at_12_Lux_at_115_Volts_W							
On_Mode_Power_at_30							
Measured_On_Mode_Po				20.94			
Reported_On_Mode_Power_at_115_Volts_W			20.94				
		_Signage_Certification_W					
Measured_Sleep_Mode_				0.26			
Reported_Sleep_Mode_				0.26			
_		_Power_at_115_Volts_W		0.26			
		for_Signage_Certification_W		-			
		_to_Default_Sleep_Mode*		0			
		Entering_Sleep_or_Off_Mode					
Default_Delay_Time_to_	_Sleep_min			1			

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8.0 Test Summary Measured Off Mode Power at 115 Volts W 0.19 Reported_Off_Mode_Power_at_115_Volts_W 0.19 Measured Total Energy Consumption at 115 Volts kWh 65.68 Reported_Total_Energy_Consumption_at_115_Volts_kWh 65.68 Max Total Energy Consumption Limit for Monitor kWh 69.81 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 20.99 0.33 Measured Sleep Mode Power at 230 Volts W Measured_Disconnected_Sleep_Mode_Power_at_230_Volts_W 0.33 Measured_Off_Mode_Power_at_230_Volts_W 0.27 Measured_Total_Energy_Consumption_at_230_Volts_kWh 66.23 True_Power_Factor_PF_During_On_Mode_Testing_at_115_Volts_W 0.52 True Power Factor PF During On Mode Testing at 230 Volts W 0.41 sRGB Color Spaces Supported* Display, HDMI, VG Available Signal or Data Interfaces* A,USB None Model Features* Features_Enabled_in_Default_On Mode* None Features_Enabled_in_Default_Sleep_Mode* None Wireless Technologies Supported* None Ethernet_Supported* None Ac to dc internal Power_Source* 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 21.54 0.26 Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W Measured Disconnected Sleep Mode Power at 100 Volts 50Hz W 0.26 Measured Off Mode Power at 100 Volts 50Hz W 0.18 Measured Total Energy Consumption at 100 Volts 50Hz kWh 67.52 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 21.98 Measured Sleep Mode Power at 100 Volts 60Hz W 0.26 Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_60Hz_W 0.26 Measured Off Mode Power at 100 Volts 60Hz W 0.18 Measured Total Energy Consumption at 100 Volts 60Hz kWh 68.81

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: Eli Shui Reviewed by: Carl Dong Title: Engineer Title: Engineer 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. Top Victory Electronics (Taiwan) Co., Ltd. **BASIC LISTEE** 10F., No. 230, Liancheng Rd. Zhonghe City. Taipei Country 23553 Address Country Taiwan EPA ID 1065104 Product Display (LCD Monitor) Contact David.Cheng Phone +886-2-82261668-2375 FAX +886-2-82261668-2375 Email David.cheng@tpv-tech.com MULTIPLE LISTEE 1 None Address EPA ID Country Contact Phone FAX Email **Brand Name** Date Available Market Availability OEM Major Markets Trans Type Notes **ASSOCIATED MANUFACTURER** Address Country MULTIPLE LISTEE 1 MODELS **BASIC LISTEE MODELS** Model Name and 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 OEM Major Markets Trans Type Notes **ASSOCIATED MANUFACTURER** Address Country MULTIPLE LISTEE 2 MODELS **BASIC LISTEE MODELS** Model Name and 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

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. Angela Han

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: Project Handler/ Date/ Section Description of Change Item Proj # Site ID Reviewer None

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