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1.0 Reference and Address					
Report Number	210601041SHA-001	Original Issued:	21-Jun-2021	Revised: None	
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 8.0				
Applicant	<u>Top Victory Electronics (Taiwan)</u> <u>Co.,Ltd.</u>		Manufacturer 1	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	+886-2-82261668-23	75	Phone	+86-591-85285555	
FAX	+886-2-82261668-23	75	FAX	+86-591-85285447	
Email	David.cheng@tpv-tec	h.com	Email	winter.feng@tpv-tech.com	
Manufacturer 2	TPV Display Technology (Beihai) Co.,Ltd		Manufacturer 3	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	ו	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 Des	2.0 Product Description						
Product	Display (L	Display (LCD Monitor)					
Brand Name	AOC						
Description	The produ	ct covere	ed by this re	eport is a Display (L0	CD Monito	or)	
Models	Q27P2Q(0	Q27P2);C	27P2CA(C	Q27P2)			
Model Similarity	Model Nur	Model Name:Q27P2Q,Q27P2CA Model Number:Q27P2 Different model names mean different ratings					
Ratings	100-240Va	ac,50/60H	lz,1.5A or a	2.0A			
Other Ratings	NA	NA					
Date Available	04/20/202	0		Market Availability	Yes	OEM	TPV Electronics(Fujian) Co. Ltd
Major Markets	Canada,Ja	apan,Taiv	van,United	States			
Trans Type	Initial Cert	ification:	Model Mee	ets ENERGY STAR I	Requirem	ents	
Notes	NA	NA					
UPC							
Reason no UPC	UPC Code Not Yet Assigned - Partner Will Provide Later						
	Other reason no UPC						
Additional Model	Model Name and Number Identifying Information						
Details							
(Optional)							
Original Certificate Actual Issued Date for Model Tested (Only Applies to Revised Reports) NA							

1

3.0 Product Photographs

Photo 1 - External View (front)



Photo 2 - External View (back)



2

3.0 Product Photographs

Photo 3 - Main Board (715G9485)



Photo 4 - Power board (715G7610)



3

3.0 Product Photographs

Photo 5 - Main Board (715GA987)



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Photo 6 - Power Board (715GB004)



4.0 0	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	LCD panel	TPV	TPM270WF1	27 inch,TFT type,with LED backlight	NR
5	4			715GA987	I/P: max. 19Vdc, 8A	NR
3	Main Board	TPV	715G9485	I/P: max. 19Vdc, 2.5A,this is tested type.	NR	
6	5	Dower Doord		715GB004	I/P: 100-240Vac, 50/60Hz, 2 A; O/P:max.19Vdc,8A	NR
4	4 3 Power Board		TPV	715G7610	I/P:100-240V,50/60Hz,1.5A; O/P:max.19Vdc,2.5Athis is tested type.	NR
NOTE	ES:					

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

2) "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.

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.

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. <u>Schematics</u> 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(s). 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, Operating and Safety Instructions

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:

\swarrow

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 tormats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

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7.0 Illustrations



Connecting the Monitor













1. USB downstream+USB charging

2 USB downstream

3. USB upstream

4. Power switch

7.0 Illustrations

Illustration 3 - Marking Label



8.0 Test Summary					
Evaluation Period	6/10/2021-6/10/2	2021	Project No.	210601041SHA	
Sample Rec. Date	5-Jun-2021	Condition Prototype		0210605-78-075	
	Intertek Testing	Services Shanghai Limited (1105997))		
Test Location		1198 Qinzhou Road (North), Shanghai			
Test Procedure	Testing Lab		-	Qualification	
		nsideration of measurement uncertainty ndicated below with results in conforma			
The following require				ini lesi chiena.	
		aleu.		Submittal Data	
Required Submittal In				Submittal Data	
Model Name and/or I Date tested	Number lested			Q27P2Q(Q27P2) 06/10/2021	
	tested				
Serial number of Unit		-*		1 sample	
ENERGY_STAR_Sp	ecification_versio	n"		8.0	
Product_Type*				Monitor	
Tiled_Display_System					
Maximum_Tiled_Cor	ifiguration			0.1	
Panel_Type*				Other	
Other_Panel_Type				TFT LCD	
Diagonal_Screen_Siz	ze_in*			27	
Screen_Area_sq_in*				310.47	
Display_Contrast_Ra				1000	
Native_Vertical_Reso				1440	
Native_Horizontal_Re	_			2560	
Total_Native_Resolu				3.7	
Native_Pixel_Density				11874	
As_Tested_Screen_I		*		60	
Maximum_Screen_R	efresh_Rate_Hz*			75	
Enhanced_Performa	nce_Criteria*			Yes	
Color_Gamut				42.1	
Reported_Contrast_F	Ratio_at_85_deg_	Left_Horiz_Viewing_Angle		85	
Reported_Contrast_F	85				
High_Dynamic_Rang	N/A				
Other_Available_Interfaces					
Other_Features					
Signal_Interface*		DisplayPort 1.2			
Other_Interface					
USB_C_with_Power_	No				
Maximum_Power_De					
Other_Power_Source	9				
Does Model Have a	a Forced Menu a	at Initial Start up*		No	
Maximum Measured	Luminance cd	 m_2*		374.2	
Maximum_Reported_		—		300	
As shipped Luminar				309.1	
As tested Luminanc				200	
On Mode Power at 12 Lux at 115 Volts W					
On_Mode_Power_at_300_Lux_at_115_Volts_W					
Measured On Mode				20.94	
Reported On Mode		—		20.94	
		Signage_Certification_W			
Measured_Sleep_Mc				0.26	
Reported_Sleep_Mod				0.26	
		Power at 115 Volts W		0.26	
		for_Signage_Certification_W		0.20	
		to Default Sleep Mode*		0	
				v	
Other_Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode					

8.0 Test Summary					
Default_Delay_Time_	to_Sleep_min				
Measured_Off_Mode	_Power_at_115_Volts_W			0.19	
Reported_Off_Mode_	0.19				
Measured_Total_Ene	65.68				
Reported_Total_Ener	65.68				
Max_Total_Energy_C	69.81				
On_Mode_Power_at_	12_Lux_at_230_Volts_W				
	_300_Lux_at_230_Volts_W				
	_Power_at_230_Volts_W			20.99	
Measured_Sleep_Mo	0.33				
	cted_Sleep_Mode_Power_at_230_V	olts_W		0.33	
	_Power_at_230_Volts_W			0.27	
	rgy_Consumption_at_230_Volts_kW			66.23	
True_Power_Factor_I	PF_During_On_Mode_Testing_at_1	15_Volts_W		0.52	
True_Power_Factor_I	PF_During_On_Mode_Testing_at_2	30_Volts_W		0.41	
Color_Spaces_Suppo	orted*			sRGB	
				Display,HDMI,VG	
Available_Signal_or_I	Data_Interfaces*			A,USB	
				High Dynamic	
Model_Features*				Range	
Features_Enabled_in	_Default_On_Mode*			None	
Features_Enabled_in	_Default_Sleep_Mode*			None	
Wireless_Technologie	es_Supported*			None	
Ethernet_Supported*				None	
				Ac to dc internal	
Power_Source*				power supply	
				Display Power	
				Management	
Mechanism_for_Auto	matically_Entering_Sleep_or_Off_M	ode*		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	21.54				
Measured_Sleep_Mo	0.26				
Measured_Disconnec	0.26				
	_Power_at_100_Volts_50Hz_W			0.18	
	rgy_Consumption_at_100_Volts_50	Hz_kWh		67.52	
	12_Lux_at_100_Volts_60Hz_W				
	_300_Lux_at_100_Volts_60Hz_W				
	_Power_at_100_Volts_60Hz_W			21.98	
	de_Power_at_100_Volts_60Hz_W			0.26	
Measured_Disconned	0.26				
Measured_Off_Mode		0.18			
Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh				68.81	
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:	Eli Shui	Reviewed by:	Carl Dong		
Title:	Engineer	Title:	Engineer		
Signature:	Eli Shini	Signature:	Carl Pong .		
olghatalo.		eignature.	-		

	9.0 Correlation Page For Multiple Listings					
The following products,	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.					
Address	10F.,No.230,Liancheng Rd. Zhonghe City. Taipei Country 2	23553				
	- , ,					
Country	Taiwan	EPA ID	1065104			
Product	Display (LCD Monitor)		1000104			
Contact	David.Cheng					
Phone	+886-2-82261668-2375					
FAX	+886-2-82261668-2375					
Email	David.cheng@tpv-tech.com					
MULTIPLE LISTEE 1	None					
Address						

Address			
Country		EPA ID)
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	OEM
Major Markets			
Trans Type			
Notes			
UPC			
Reason no UPC			
Other reason no UPC			
ASSOCIATED			
MANUFACTURER			
Address			
Country			
MULTIPLE	LISTEE 1 MODELS	BASIC LISTEE MO	DELS
Additional Model	Model Name and Number	Identifying Informa	ation
Details (Optional)			

9.0 Correlation Page For Multiple Listings

MULTIPLE LISTEE 2	None		
Address			
Country		EPA ID	
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	OEM
Major Markets			
Trans Type			
Notes			
UPC			
Reason no UPC			
Other reason no UPC			
ASSOCIATED			
MANUFACTURER			
Address			
Country			
MULTIPLE	LISTEE 2 MODELS	BASIC LISTEE MO	DELS
Additional Model	Model Name and Number	Identifying Informa	ation
Details (Optional)			

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 Certification Body.

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.

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	12.0 Revision Summary			
The following a	The following changes are in compliance with the declaration of Section 8.1: Date/ Project Handler/ Section Item Description of Change			
Date/	Project Handler/		14	Description of Observe
Proj # Site ID	Reviewer	Section	Item	Description of Change
-				None