intertek Total Quality. Assured.

1.0 Reference and Address				
Report Number	170502124SHA-001 Original Issued: 25-May-2017			Revised: None
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 7.0			
Applicant	Top Victory Electronics Co.,Ltd.	<u>(Taiwan)</u>	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	Lissa Wang
Phone	+886-2-82261668-2375	5	Phone	+86-591-85285555
FAX	+886-2-82261668-2375		FAX	+86-591-85285447
Email	David.cheng@tpv-tech.	com	Email	lissa.wang@tpv-tech.com
Manufacturer 2	TPV Display Technolog Co.,Ltd	y (Beihai)	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	
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 Des	2.0 Product Description			
Product	Display(LCD Monitor)			
Brand Name	AOC			
Description	The product covered by this report is a LCD Display (LED backlighting) The evaluation standard of this report is based on: ENERGY STAR Program Requirements Product Specification for Displays Eligibility Criteria Version 7.0 And the test specification of this report refer to: IEC 62301:2011(Ed.2.0): Household electrical appliances -Measurement of standby power IEC 62087:2011(Ed.3.0): Methods of measurement for the power consumption of audio, video and related equipment			
Models	PDS271(270LM00040)	PDS271(270LM00040)		
Model Similarity	NA			
Ratings	100-240Vac, 50/60Hz, 1.	5A		
Other Ratings	NA			
Date Available	05/25/2017	Market Availability Yes Last Mfg Date NA		
Major Markets	Australia,New Zealand,C	anada,Europe,Japan,Switzerland,Taiwan,United States		
Trans Type	Initial Certification: Model Meets ENERGY STAR Requirements			
Notes	NA			
Additional Model	Model Name and Number Identifying Information			
Details				
(Optional)				
Original Certificat	e Actual Issued Date for N	Nodel Tested (Only Applies to Revised Reports) NA		

1

3.0 Product Photographs

Photo 1 - External View (front)

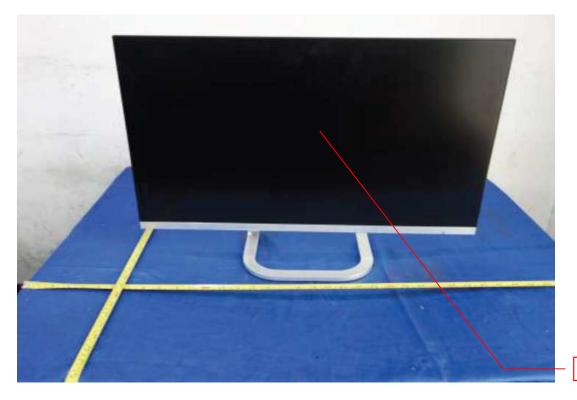


Photo 2 - External View(back)



3.0 Product Photographs

Photo 3 - Internal View

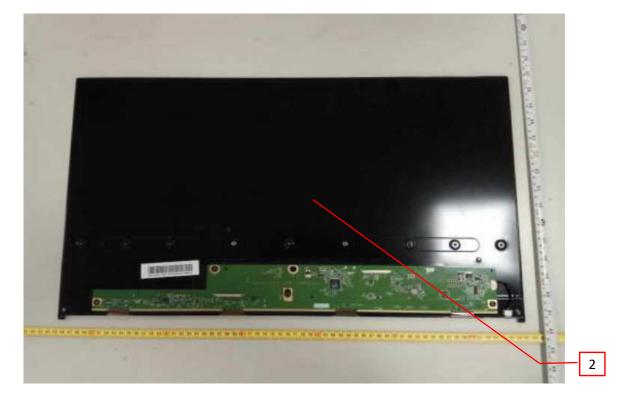
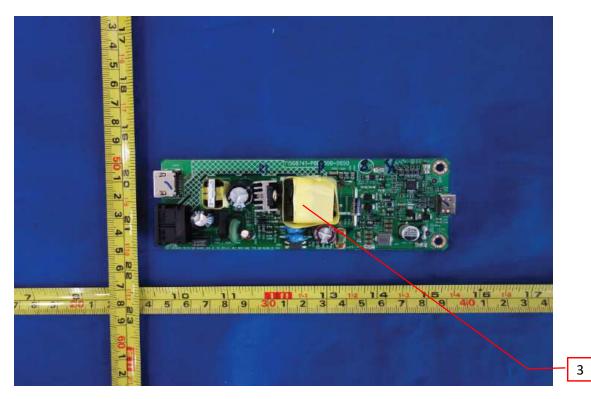


Photo 4 - Power Board (L&T/ 715G8741)



4.0 0	4.0 Critical Components					
Photo #	ltem no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	LCD Panel	L&T	LM270W** (* can be 0-9,A- Z or blank)	27inch,TFT type,with LED backlight L&T / LM270WF7 is representative test model.	NR
3	2	Main Board	L&T	715G8806	I/P: 19Vdc, 2.5A	NR
4	3	Power Board	L&T	715G8741	I/P:100-240Vac, 50-60Hz, 1.5A O/P: Max. 19Vdc, 2.8A; Max. 5Vdc, 4.5A	NR
NOTE	NOTES:					
4) Mari	1) Net ell'item sumbrus ave indicated (called cut) is the whates on their leastics is shuizus					

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.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:

X

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

Æ

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

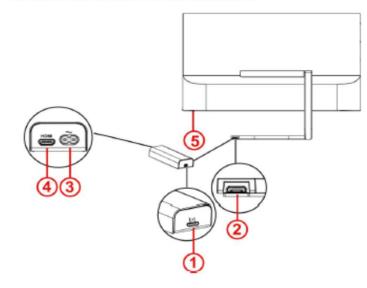
WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

7.0 Illustrations

Illustration 2 - Installation, Operating and Safety Instructions (continued)

Connecting the Monitor

Cable Connections In Communication box and Computer:



- 1 Communication output
- 2 Communication input
- 3 Power
- 4 HDMI
- 5 Earphone out

To protect equipment, please be noted item as follows

- Always turn off the PC and LCD monitor before connecting.
- Please do not insert or pull out communication cable in use
- Please follow the connecting order as below
- Connect one end of the communication cable to the communication box and connect the other end to the monitor's communication port.
- 2 Connect the power cable to the AC port on the communication box.
- 3 Connect one end of the HDMI cable to the communication box and connect the other end to the computer's HDMI port.
- 4 Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

* Please do not use other type communication cable, communication cable is not MINI HDMI cable.

7.0 Illustrations

Illustration 3 - Display Marking Label



8.0 Test Summary					
Evaluation Period	5/25/2017-5/25/2	2017	Project No.	170502124SHA	
Sample Rec. Date	22-May-2017	Condition Prototype		0170522-47-003	
			(1105997)		
Test Location		1198 Qinzhou Road (North), Shanghai			
Test Procedure	Testing Lab		Test type	Qualification	
		nsideration of measurement uncertaint			
		ndicated below with results in conformation			
The following require					
Required Submittal Ir				Submittal Data	
	nonnalion			PDS271(270LM00	
Model Name and/or N		040)			
Date tested				05/25/2017	
Serial number of Unit	tested			1 sample	
ENERGY_STAR_Spe		n*		7.0	
Product_Type*		11		Monitor	
Display Type*				Other	
Other_Display_Type				TFT LCD	
Display_Backlight_Te	chnology*			LED	
Other_Display_Backl				NA	
Display_Contrast_Ra				1000	
Image_Height_in*				13.2	
Image_Width_in*				23.5	
Diagonal Screen Siz	ze in*			27	
Screen Area sq in*	<u></u>			311.67	
Aspect Ratio*				1.78	
Native_Vertical_Reso	olution lines*			1080	
Native Horizontal Re				1920	
Total_Native_Resolut	2.1				
Native_Pixel_Density	66653				
Screen Refresh Rat				60	
Color Gamut*	—			41.3	
Enhanced_Performar	nce_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_Shipp	No				
Is_Model_Sold_Through_Enterprise_Channels*				Yes	
Other_Available_Inte	rfaces			NA	
Other_Features				NA	
Signal_Interface*				HDMI 1.4	
Other_Interface				NA	
Other_Power_Source				NA	
VESA_FPDM2_Test_				No	
	_ /_	Entering_Sleep_or_Off_Mode		NA	
Default_Delay_Time_		at Initial Chart*		5	
Does_Model_Have_a	a_rorced_ivienu_			No	
User_Interface*	Luminanaa ad	m 0*		Yes 294.7	
Maximum_Measured Maximum Reported				294.7	
As shipped Luminar		۱۱_ ۲		250	
As_snipped_Luminar As_tested_Luminanc		246.1			
		200			
	On_Mode_Power_at_12_Lux_at_115_Volts_W On Mode Power at 300 Lux at 115 Volts W				
Measured On Mode	19.21				
Reported On Mode				19.21	
				10.21	
	Maximum_On_Mode_Power_Limit_for_Signage_Certification_W				

8.0 Test Summary	
Measured_Sleep_Mode_Power_at_115_Volts_W	0.16
Reported_Sleep_Mode_Power_at_115_Volts_W	0.16
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	0.12
Reported_Off_Mode_Power_at_115_Volts_W	0.12
Measured_Total_Energy_Consumption_at_115_Volts_kWh	59.8
Reported_Total_Energy_Consumption_at_115_Volts_kWh	59.8
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	19.66
Measured_Sleep_Mode_Power_at_230_Volts_W	0.22
Measured_Disconnected_Sleep_Mode_Power_at_230_Volts_W	
Measured_Off_Mode_Power_at_230_Volts_W	0.17
Measured_Total_Energy_Consumption_at_230_Volts_kWh	61.52
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	0.36
Number_of_Sleep_Modes_in_Addition_to_Default_Sleep_Mode*	0
Color_Spaces_Supported*	sRGB
Available_Signal_or_Data_Interfaces*	HDMI 1.4
Model_Features*	None
Features_Enabled_in_Default_On_Mode*	None
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	19.32
Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W	0.16
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_50Hz_W	
Measured_Off_Mode_Power_at_100_Volts_50Hz_W	0.12
Measured_Total_Energy_Consumption_at_100_Volts_50Hz_kWh	60.16
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	19.42
Measured_On_Mode_rower_at_100_voits_cont2_w	0.16
Measured_Sleep_Mode_Fower_at_100_volts_60Hz_W Measured Disconnected Sleep Mode Power at 100 Volts 60Hz W	0.10
Measured_Disconnected_Sieep_Mode_Power_at_100_volts_60H2_W Measured Off Mode Power at 100 Volts 60Hz W	0.12
	60.45
Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh	00.40

8.1	Signatures

on orginatares						
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:	Carl Dong	Reviewed by:	Jarree Jiang			
Title:	Engineer	Title:	Engineer			
Signature:	Carl Pong	Signature:	SPOP			
	V					

9.0 Correlation Page Fo	or 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.	
Address	10F.,No.230,Liancheng Rd. Zhor	nghe City. Taipei Country 23553	
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			
Country		EPA ID	
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	Last Mfg Date
Major Markets			
Trans Type			
Notes			
ASSOCIATED			
MANUFACTURER			
Address			
Country			

MULTIPLE LISTEE 1 MODELS		BASIC LISTEE MODELS
Additional Model	Model Name and Number	Identifying Information
Details (Optional)		

MULTIPLE LISTEE 2	None		
Address			
Country		EPA ID	
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 MOI	DELS
Additional Model	Model Name and Number	Identifying Informa	tion
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

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	The following changes are in compliance with the declaration of Section 8.1: Date/ Project Handler/ Section Item Description of Change			
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
				None
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		ļ		
	<u> </u>			