

Compliance Constructional Data Report (CDR)

1.0 Reference and Address					
Report Number	161000379SHA-002 Original Issued: 12-Oct-2016			Revised: None	
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 7.0				
Applicant	Top Victory Electronics Co.,Ltd.	s (Taiwan)	Manufacturer	TPV Electronics(Fujian) Co., Ltd	
Address	10F.,No.230,Lianchen City. Taipei Country 23		Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province	
Country	Taiwan		Country	P.R.China	
Contact	David.Cheng		Contact	Lissa Wang	
Phone	+886-2-82261668-237	5	Phone	+86-591-85285555	
FAX	+886-2-82261668-237	5	FAX	+86-591-85285447	
Email	David.cheng@tpv-tech	n.com	Email	lissa.wang@tpv-tech.com	
Manufacturer 2	TPV Display Technolo Co.,Ltd	gy (Beihai)	Manufacturer 3	TPV Display Technology (China) Co., Ltd.	
Address	China Electronic Beiha Park,Northeast of the between Taiwan Road Beihai City,Guangxi	Crossing	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, F Economic and Techno Development Zone,Fu	logical	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.c	om	Email	zhe.zhou@tpv-tech.com	

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	E2475SWQE(236LM00031);E2475PWJ(236LM00031);E2475SWJ(236LM00031)					
Model Similarity	Model name: E2475SWQE;E2475PWJ;E2475SWJ Model number: 236LM00031 Different model names mean different sales regions.					
Ratings	100-240Vac, 50/60Hz, 1.5A					
Other Ratings	NA NA					
Date available	02/01/2016	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					
Notes	NA					
Additional model details (optional) Model Name or Number Identifying Information						
Original Certificat	e actual issued date for	or model tested (only applies to revised reports) NA				

3.0 Product Photographs

Photo 1 - External View(front)



Photo 2 - External View(back)

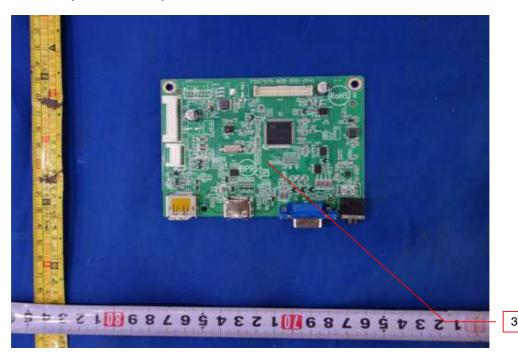


3.0 Product Photographs

Photo 3 - Main Board (TPV / 715G5436)

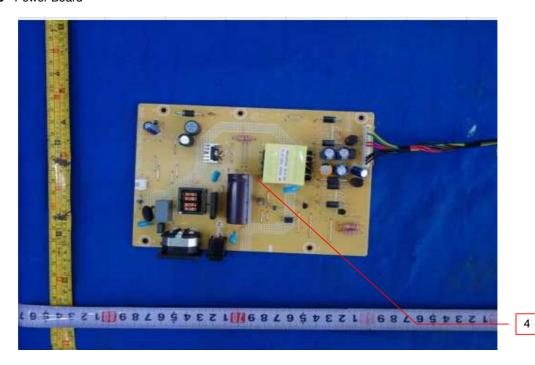


Photo 4 - Main Board (TPV / 715G7970)



3.0 Product Photographs

Photo 5 - Power Board



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4.0 (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	TPM236H3	23.6inch,TFT type,with LED backlight	NR
3	2		TPV	715G5436	I/P: 5Vdc/3.25A max.	NR
4	Main Board 3	IF V	715G7970	Tested model is 715G5436	INIT	
5	4	Power Board	TPV	715G7775	I/P: 100-240VAC, 50/60Hz, 1.5A max. O/P: 16Vdc/2A; 5V,3.5A	NR

NOTES:

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.

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.

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.

<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.



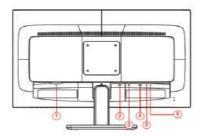
 $oldsymbol{oldsymbol{eta}}$ The wall socket shall be installed near the equipment and shall be easily accessible.

7.0 Illustrations

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

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

Illustration 3 - Display Marking Label



Product Name/Nama Produk/ 機種名/제품명: E2475SWJ Model No. /型號/모델명:

236LM00031

Power Rating/Tegangan/額定電源/정격입력:100-240V ~ 50/60Hz 1.5A 제조국:중국 /中國製造/ Made in China / Buatan China

www.aoc.com Q40G024N-615-75A

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BARCODE

Shock Hazard, Do Not Open 非專業維修人員請勿打開後蓋。

勝電子有限公司 福清市融僑經濟技術開發區 :(주)알파스캔디스플레이

: COMPOINT CO., LTD. TPV Electronics(Fujian) Co., Ltd. 문의처:1544-7739

















LCD MONITOR/液晶顯示器/모니터

Product Name/Nama Produk/ 機程名/제품명: E2475PWJ

Model No./型號/모델명:

236LM00031

Power Rating/Tegangan/報定電源/경격임력: 100-240V ~ 50/60Hz 1.5A 제조국:중국 /中國製造/ Made in China/ Buatan China

www.aoc.com Q40G024N-615-75A

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an) Co., Ltd











40G024N-615-77B

LCD MONITOR/液晶顯示器/모니터

duct Name/Nama Produk/ 機種名/제품명: E2475SWQE odel No./型號/모델명:

236LM00031

er Rating/Tegangan/報定電源/정격일력:100-240V ~ 50/60Hz 1.5A

계조국:중국 /中國製造/ Made in China / Bustan China

www.aoc.com Q40G024N-615-75A

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O O Took Currence					
8.0 Test Summary	0/40/0040 40/40/0040	В	4040000700114		
	0/12/2016-10/12/2016		161000379SHA		
	1-Oct-2016 Condition Prototype		0161011-46-002		
	ntertek Testing Services Shanghai Limited EPA ID(Building No.86, 1198 Qinzhou Road (North), Shanghai	1105997) 200233, China			
Test Procedure T	Festing Lab	Test type	Qualification		
	sult includes consideration of measurement uncertainty				
	was tested as indicated below with results in conforma				
The following requirement		1100 10 1110 101010	ant toot ontona.		
Required Submittal Info			Submittal Data		
ricquired oublinitial line	Simulation		E2475PWJ(236L		
Model Name and/or Nu	umber tested		M00031)		
Date tested	illiber tested		10/12/2016		
Serial number of Unit to	ested				
ENERGY_STAR_Spec			Engineer Sample		
Product_Type*	ilication_version		7.0 Monitor		
Display_Type*					
			Other		
Other_Display_Type	la maila mut		TFT LCD		
Display_Backlight_Tecl			LED		
Other_Display_Backlight			NA		
Display_Contrast_Ratio	D*		1000		
Image_Height_in*			11.5		
Image_Width_in*			20.5		
Diagonal_Screen_Size	_in*		23.6		
Screen_Area_sq_in*			236.92		
Aspect_Ratio*			1.78		
Native_Vertical_Resolu			1080		
Native_Horizontal_Res			1920		
Total_Native_Resolutio	2.1				
Native_Pixel_Density_[8752				
Screen_Refresh_Rate_	60				
Color_Gamut*			34		
Enhanced_Performanced	None				
Reported_Contrast_Ra	tio_at_85_deg_Left_Horiz_Viewing_Angle				
Reported_Contrast_Ra	tio_at_85_deg_Right_Horiz_Viewing_Angle				
Is_This_Model_Shipped	No				
Is_Model_Sold_Throug	Yes				
Other_Available_Interfa			NA		
Other_Features			NA		
Signal_Interface*			HDMI 1.4		
Other_Interface			NA		
Other Power Source			NA		
VESA FPDM2 Test P	Pattern Used*		No		
	_Automatically_Entering_Sleep_or_Off_Mode		NA NA		
Default_Delay_Time_to			5		
	Forced_Menu_at_Initial_Start_up*		No		
User_Interface*	i oroca_mena_at_minal_etart_up		No		
Maximum_Measured_L	uminance cd m 2*		265.7		
Maximum_Reported_L			250		
As_shipped_Luminance					
			207.3		
As_tested_Luminance_	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 15.32					
	15.32				
Reported_On_Mode_P	15.32				
iviaximum_On_Mode_F	Maximum_On_Mode_Power_Limit_for_Signage_Certification_W				

Title:

Signature:

Engineer

8.0 Test Summary					
	de_Power_at_115_Volts_\				0.29
Reported_Sleep_Mod		0.29			
	ted_Sleep_Mode_Power_				
	de_Power_Limit_for_Signa	age_Certific	cation_W		
Measured_Off_Mode_		0.16			
	Power_at_115_Volts_W				0.16
	rgy_Consumption_at_115_				48.63
	gy_Consumption_at_115_		Ì		48.63
	onsumption_Limit_for_Mo	nitor_kWh			53.1
	_12_Lux_at_230_Volts_W				
	_300_Lux_at_230_Volts_W	V			
	_Power_at_230_Volts_W				14.73
Measured_Sleep_Mo	de_Power_at_230_Volts_\	W			0.36
Measured_Disconnec	ted_Sleep_Mode_Power_	_at_230_Vc	lts_W		
Measured_Off_Mode	Power_at_230_Volts_W				0.23
Measured_Total_Ene	rgy_Consumption_at_230_	_Volts_kW	h		47.22
True_Power_Factor_I	PF_During_On_Mode_Tes	sting_at_11	5_Volts_W		0.6
True_Power_Factor_I	PF_During_On_Mode_Tes	sting_at_23	0_Volts_W		0.4
	odes_in_Addition_to_Defa				0
Color_Spaces_Supported*					sRGB
					HDMI
Available_Signal_or_I	Data Interfaces*				1.4,DVI,VGA
Model_Features*	Built-In Speakers				
Features_Enabled_in	Built-In Speakers				
Features_Enabled_in	None				
Wireless_Technologie	None				
Low_Power_Wireless		None			
Ethernet_Supported*	None				
Power_Source*	Ac power supply				
	Display Power				
		Management			
Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode*					Signaling
					Oignainig
	12_Lux_at_100_Volts_50				
	300_Lux_at_100_Volts_50				45.00
Measured_On_Mode_		15.26			
Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W					0.28
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_50Hz_W Measured_Off_Mode_Power_at_100_Volts_50Hz_W 0.15					0.15
	0.15				
Measured_Total_Energy_Consumption_at_100_Volts_50Hz_kWh					48.38
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					14.89
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				0.16	
Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh				47.32	
8.1 Signatures					
	ple of the product covered			uated and found t	o comply with the
	nts of the standards indicat				
Completed by:	Carl Dong		Reviewed by:	Jessica He	
Titlo:	Engineer		Titlo	Engineer	Į.

Title:

Signature:

Engineer

Issued: 12-Oct-2016

Revised: None

Additional model details (Optional)

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. Address 10F., No. 230, Liancheng Rd. Zhonghe City. Taipei Country 23553 Country Taiwan EPA ID 1065104 Product Display(LCD Monitor) David.Cheng Contact +886-2-82261668-2375 Phone +886-2-82261668-2375 FAX David.cheng@tpv-tech.com Email MULTIPLE LISTEE 1 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 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** Market availability Last Mfg date Date available Major Markets Trans Type Notes ASSOCIATED **MANUFACTURER** Address Country MULTIPLE LISTEE 2 MODELS BASIC LISTEE MODELS Model Name or Number Identifying Information

Issued: 12-Oct-2016

Revised: None

Report No. 161000379SHA-002 Top Victory Electronics (Taiwan) Co.,Ltd. Issued: 12-Oct-2016 Revised: None

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.

The following changes are in compliance with the declaration of Section 8.1: Date/ Proj # Site ID Reviewer Section Item Description of Change					
The following changes are in compliance with the declaration of Section 8.1:					
Date/ Proi # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change	
	, , , , , , , , , , , , , , , , , , , ,			None.	
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Issued: 12-Oct-2016

Revised: None