

COMPLIANCE Constructional Data Report (CDR)

1.0 Reference and Address			
Report Number	170301817SHA-001 Original Issued: 10-Apr-2017		Revised: None
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 7.0		
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
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Email	David.cheng@tpv-tech.com	Email	lissa.wang@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
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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,Fujiar	Address	Unique No.11 Zhuankou Development District of Economic Technological Development Zone Wuhan
Country	China	Country	China
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2.0 Product Description Display(LCD Monitor) **Product Brand Name** AOC 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 Description 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 11601FWUX(156LM00007) Models Model Similarity NA Ratings 5Vdc, 1.5A Other Ratings NA Date Available 04/10/2017 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 NΑ 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 - Main Board (TPV/ 715G9000)



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4.0 Critical Components Photo # Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark2 means conformity³ 15.6",TFT type, with LED 1 1 LCD Panel LGD LP156WF6 NRbacklighting TPV 2 2 Main Board I/P: 5Vdc, Max. 1.5A NR 715G7900

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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op Victory Electronics (Taiwan) Co.,Ltd. Revised: None

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.

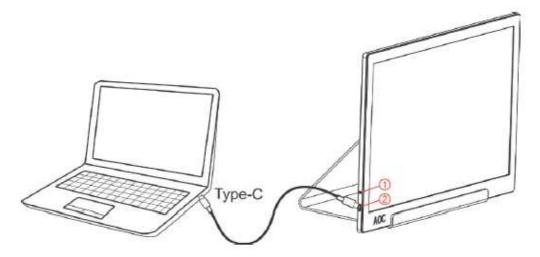


WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

7.0 Illustrations

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

Connecting the Monitor



- 1 Power Button
- 2 USB Type-C

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

- Connect one end of the USB cable to the USB Monitor and the other end of USB cable to the computer.
- 2. Your computer should detect the USB Monitor automatically.

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

7.0 Illustrations

Illustration 3 - Display Marking Label



8.0 Test Summary

Evaluation Period 4/10/2017-4/10/2017 Project No. 170301817SHA Sample ID. 0170322-47-001 Sample Rec. Date 22-Mar-2017 Condition Prototype Intertek Testing Services Shanghai Limited EPA ID(1105997) **Test Location** Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China Test Procedure Testing Lab Test type Qualification 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 I1601FWUX(156L Model Name and/or Number tested M00007) Date tested 04/10/2017 Serial number of Unit tested 1 sample ENERGY STAR Specification Version* 7.0 Product_Type* Monitor Display_Type* Other Other_Display_Type TFT LCD Display_Backlight_Technology LED Other_Display_Backlight_Technology NA Display_Contrast_Ratio* 700 Image_Height_in* 7.6 Image_Width_in' 13.5 Diagonal Screen Size in* 15.6 Screen_Area_sq_in* 103.27 Aspect Ratio* 1.78 Native_Vertical_Resolution_lines* 1080 Native_Horizontal_Resolution_lines* 1920 Total_Native_Resolution_megapixels* 2.1 Native_Pixel_Density_Dp_pixels_sq_in* 20079 Screen_Refresh_Rate_Hz* 60 Color_Gamut* 17.3 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* Other Other_Interface USB Type-C 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 5 Does Model Have a Forced Menu at Initial Start up* No User Interface* No Maximum_Measured_Luminance_cd_m_2* 228.9 Maximum_Reported_Luminance_cd_m_2* 220 As shipped Luminance cd m 2 183.6 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 5.95 Reported_On_Mode_Power_at_115_Volts_W 5.95 Maximum_On_Mode_Power_Limit_for_Signage_Certification_W

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Signature:

8.0 Test Summary Measured_Sleep_Mode_Power_at_115_Volts_W 0.08 Reported_Sleep_Mode_Power_at_115_Volts_W 0.08 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 0.08 Reported_Off_Mode_Power_at_115_Volts_W 0.08 Measured_Total_Energy_Consumption_at_115_Volts_kWh 18.67 Reported_Total_Energy_Consumption_at_115_Volts_kWh 18.67 Max_Total_Energy_Consumption_Limit_for_Monitor_kWh 27.9 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 5.95 Measured_Sleep_Mode_Power_at_230_Volts_W 0.08 Measured_Disconnected_Sleep_Mode_Power_at_230_Volts_W Measured_Off_Mode_Power_at_230_Volts_W 0.08 Measured_Total_Energy_Consumption_at_230_Volts_kWh 18.67 True_Power_Factor_PF_During_On_Mode_Testing_at_115_Volts_W True_Power_Factor_PF_During_On_Mode_Testing_at_230_Volts_W 1 Number of Sleep Modes in Addition to Default Sleep Mode* 0 Color_Spaces_Supported* None Available_Signal_or_Data_Interfaces* USB-3.1 C 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' USB Display Power Management Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode* Signaling 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: Carl Dong Reviewed by: Jarree Jiang Title: Engineer Title: Engineer 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 +886-2-82261668-2375 Phone 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** 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 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 Last Mfg Date 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 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: Project Handler/ Section Item Description of Change Proj # Site ID Reviewer None

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