TEST REPORT

On Behalf of

Perfect Display Technology (HUIZHOU) Co., Ltd

NO.5, Laowu Road, Sino-Korea Industrial Park, Zhongkai District, Huizhou City, Guangdong, China

LED MONITOR

Model: MG49RQA-C-165Hz

Test Standards	:	IEC/EN 62301:2011 & EN 50564:2011 with operating mode picked from EN 62087-1:2016 & EN 62087-2:2016 & EN 62087-3:2016
Reference Standards	:	According to EC Comm LCD Monitorion Regulation No. 801/2013 & 1275/2008 & 2019/2021 & 2019/2013 & 2021/341 & 2021/340
Report Number	:	GVTE260309002
Test Date	:	Apr. 22– Apr. 27, 2026
Date of Report	:	May. 06, 2026
Prepared By	:	**ShenZhen GVT Testing Technology Co., Ltd.** Room 504, Unit 1, Building 4, Zhaofuda Industrial Zone, Hongqiaotou Community, Yanluo Street, Bao 'an District, Shenzhen, Guangdong, China.

TEST REPORT

Report reference No.....	:	GVTE260309002
Date of Issue.....	:	May. 06, 2026
Testing laboratory		
Testing Laboratory Name...	:	ShenZhen GVT Testing Technology Co., Ltd.
Address.....	:	Room 504, Unit 1, Building 4, Zhaofuda Industrial Zone, Hongqiaotou Community, Yanluo Street, Bao 'an District, Shenzhen, Guangdong, China.
Test location.....	:	(Same as above)
Client		
Name.....	:	Perfect Display Technology (HUIZHOU) Co., Ltd
Address.....	:	NO.5, Laowu Road, Sino-Korea Industrial Park, Zhongkai District, Huizhou City, Guangdong, China
Test specification.....		Regulation on ecodesign requirements for electronic displays (EU) 2019/2021 Regulation on energy labelling for electronic displays (EU) 2019/2013 Regulation (EU) 2021/340 amending Regulations (EU) 2019/2013 Regulation (EU) 2021/341 amending Regulations(EU) 2019/2021
Test item		
Description.....	:	LED MONITOR
Model No.	:	MG49RQA-C-165Hz
Other Models.....	:	JN-49V165DQ-HSC9-L,**49***-*-*****,**-49******-****-*
Model differences.....	:	“*”Representing numbers 0-9, letters A-Z, letters a-z, symbols "-" or blank space, only used to distinguish different product appearance colors, sales regions, and channels, and does not affect the safety and electromagnetic compatibility performance of the product
Trade Mark.....	:	/
Manufacturer.....	:	Perfect Display Technology (HUIZHOU) Co., Ltd
Address.....	:	NO.5, Laowu Road, Sino-Korea Industrial Park, Zhongkai District, Huizhou City, Guangdong, China
Rating(s).....	:	DC 24V /6.25A (Power supply By POWER ADAPTER: SOY-2400625-454)

Particulars: test item vs. test requirements

Classification of installation and use..... : Class III

Supply Connection..... : External power supply

Possible test case verdicts:

- test case does not apply to the test object..... : N(N/A)
- test object does meet the requirement..... : P(Pass)
- test object does not meet the requirement..... : F(Fail)

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the using testing laboratory.

Laboratory GVT. The authenticity of this Test Report and its contents can be verified by contacting GVT, responsible for this Test Report.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

General product information:

- This products is LED MONITOR, class III product.
- Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

-The product was submitted and tested for use at the ambient temperature (Tma) of 23±5 °C.

Summary of testing:

These results are in compliance with the ecodesign requirements of the

Regulation on ecodesign requirements for electronic displays (EU) 2019/2021

Regulation on energy labelling for electronic displays (EU) 2019/2013

Testing procedure and testing location

Laboratory name……	:	ShenZhen GVT Testing Technology Co., Ltd.
Testing location/address:	:	Room 504, Unit 1, Building 4, Zhaofuda Industrial Zone, Hongqiaotou Community, Yanluo Street, Bao 'an District, Shenzhen, Guangdong, China.
Testing procedure	:	TL ☐ RMT ☐ SMT ☐ WMT ☐ TMP ☐
Tested By (Test Engineer)	:	Cloris
Reviewed By (Supervisor)	:	Keith Zhu
Approved By (Chief Engineer)	:	Peter Chen

COMMISSION REGULATION (EU) 2019/2021

of 1 October 2019

laying down ecodesign requirements for electronic displays pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EC) No 642/2009

—	**ANNEX II** **Ecodesign requirements**	See below	**P**
A	**ENERGY EFFICIENCY REQUIREMENTS**		—
1.	**ENERGY EFFICIENCY INDEX LIMITS FOR ON-MODE** $EEI = \frac{(P_{measured} + 1)}{(3 \times [90 \times tanh(0,02 + 0,004 \times (A - 11)) + 4] + 3) + corr}$, The energy efficiency index (EEI) of an electronic display shall be calculated using the following equation: corr is a correction factor of 10 for OLED electronic displays that do not apply the ABC allowance in point B (1). This shall apply until 28 February 2023. corr shall be zero in all other cases. The EEI of an electronic display shall not exceed the maximum EEI (EEI_{max}) according to the limits in Table 1 from the dates indicated.	Resolution:5120×1440 pixels EEImax:0.90 A: 39.96dm^2 $Pmeasured_{SDR}$:38.16W $Pmeasured_{HDR}$:39.27W corr: / EEI_{SDR}:0.76 EEI_{HDR}:0.78	**P**

Table 1

EEI limits for on-mode

	EEI_{max} for electronic displays with resolution up to 2 138 400 pixels (HD)	EEI_{max} for electronic displays with resolution above 2 138 400 pixels (HD) and up to 8 294 400 pixels (UHD-4k)	EEI_{max} for electronic displays with resolution above 8 294 400 pixels (UHD-4k) and for MicroLED displays
1 March 2021	0,90	1,10	n.a.
1 March 2023	0,75	0,90	0,90

B	**ALLOWANCES AND ADJUSTMENTS FOR THE PURPOSE OF THE EEI CALCULATION AND FUNCTIONAL REQUIREMENTS**		—
1.	**Electronic displays with automatic brightness control (ABC)**		**N/A**
—	Electronic displays qualify for a 10 % reduction in $P_{measured}$, if they meet all of the following requirements: (a) ABC is enabled in the normal configuration of the electronic display and persists in any other standard		**N/A**

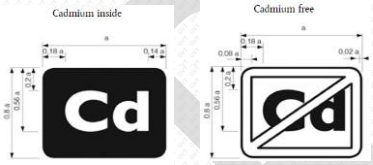
	dynamic range configuration available to the end-user; (b) the value of $P_{measured}$, in the normal configuration, is measured with ABC disabled or, if ABC cannot be disabled, in an ambient light condition of 100 lux measured at the ABC sensor; (c) the value of $P_{measured}$ with ABC disabled, if applicable, shall be equal to or greater than the on mode power measured with ABC enabled in an ambient light condition of 100 lux measured at the ABC sensor; (d) with ABC enabled, the measured value of the on mode power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; and (e) the ABC control of the display screen luminance meets all of the following characteristics when the ambient light condition measured at the ABC sensor changes: —the measured screen luminance at 60 lux is between 65 % and 95 % of the screen luminance measured at 100 lux; —the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux; and —the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux.		
2.	**Forced menu and set up menus**		**N/A**
—	Electronic displays may be placed on the market with a forced menu on initial activation proposing alternative settings. Where a forced menu is provided, the normal configuration shall be set as default choice, otherwise the normal configuration shall be the out-of-the-box setting.		**N/A**
—	If the user selects a configuration other than the normal configuration and this configuration results in a higher power demand than the normal configuration, a warning message about the likely increase in energy use shall appear and confirmation of the action shall be explicitly requested.		**N/A**
—	If the user selects a setting other than those that are part of the normal configuration and this setting results in a higher energy consumption than the normal configuration,		**N/A**

	a warning message about the likely increase in energy consumption shall appear and confirmation of the action explicitly requested.		
—	A change by the user in a single parameter in any setting shall not trigger any change in any other energy-relevant parameter, unless unavoidable. In such a case a warning message shall appear about the change of other parameters and the confirmation of the change shall be explicitly requested.		**N/A**
3.	**Peak white luminance ratio**		**P**
—	In the normal configuration, the peak white luminance of the electronic display in a 100 lux ambient light viewing environment shall not be less than 220 cd/m^2 or, if the electronic display is primarily intended for close viewing by a single user, not less than 150 cd/m^2.		**--**
—	If the electronic display's peak white luminance in the normal configuration is set to lower values, it shall not be less than 65 % of the peak white luminance of the display, in a 100 lux ambient light viewing environment in the brightest on mode configuration.	Calculated peak white luminance ratio: 89.32%	**--**
C	**OFF MODE, STANDBY AND NETWORKED STANDBY MODE REQUIREMENTS**		**P**
1.	**Power demand limits other than on-mode** Electronic displays shall not exceed power demand limits in the different modes and conditions listed in Table 2:		
—	**Off mode:** P_{off}≤ 0.30 W (Max. limit)	Measured P_{off} =0.25	**P**
—	**Standby mode:** $P_{Standby}$ ≤ 0.50 W (Max. limit)	Measured P_{Sb}=0.37	**P**
	Allowances for additional functions when present and enabled		**N/A**
	- Status display: $P_{Standby\_adder}$= 0.20 W		**N/A**
	- Deactivation using room presence detection:$P_{Standby\_adder}$= 0.50 W		**N/A**
	- Touch functionality, if usable for activation: $P_{Standby\_adder}$= 1.00 W		**N/A**
	Total maximum power demand with all additional functions when present and enabled ≤ 2.20 W	*Total maximum* limit P_{Sb}= Measured P_{Sb}=	**N/A**

—	**Networked standby mode:** P_{nsb} ≤ 2.00 W (Max. limit)	Measured P_{nsb}=	**N/A**
	Allowances for additional functions when present and enabled		**N/A**
	- Status display: P_{nsb_adder} = 0.20 W		**N/A**
	- Deactivation using room presence detection: P_{nsb_adder} = 0.50 W		**N/A**
	- Touch functionality, if usable for activation: P_{nsb_adder} = 1.00 W		**N/A**
	- HiNA function: P_{nsb_adder} = 4.00 W		**N/A**
	Total maximum power demand with all additional functions when present and enabled: P_{nsb} ≤ 7.70 W	*Total maximum* limit P_{nsb} = Measured P_{nsb}=	**N/A**
2.	**Availability of off, standby and networked standby modes**		**P**
	Electronic displays shall provide off mode or standby mode or a networked standby mode or other modes which do not exceed the applicable power demand requirements for standby mode.		**P**
	The configuration menu, instruction manuals and other documentation, if any, shall refer to off mode, standby mode or networked standby mode using those terms.		**P**
	Automatic switch to off mode and/or standby mode and/or another mode which does not exceed the applicable power demand requirements for standby mode shall be set as default, including for networked displays where the network interface is enabled when in on mode.		**P**
	Networked standby mode shall be disabled in 'normal configuration' of a networked television. The end user shall be prompted to confirm the activation of networked standby if it is needed for a chosen remotely activated function, and must be able to disable it.		**N/A**
	Networked electronic displays shall comply with the requirements for standby mode when networked standby mode is disabled.		**N/A**
3.	**Automatic standby in televisions**		**N/A**
	(a) Televisions shall provide a power management function, enabled as delivered by the manufacturer that,		**NIA**

	within 4 hours following the last user interaction, shall switch the television from on mode into standby mode or networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode. Before such automatic switch, televisions shall show, for at least 20 seconds, an alert message warning the user of the impending switch, with possibility of delaying or temporarily cancelling it.		
	(b) If the television provides a function allowing the user to shorten, extend or disable the 4-hour period for automatic mode transitions detailed in (a), a warning message shall appear about a potential increase in energy use and a confirmation of the new setting must be requested when an extension beyond the 4-hour period or disabling is selected.		**N/A**
	(c) If the television is equipped with a room presence sensor, the automatic transition from on mode into any mode as detailed in (a) applies if no presence is detected for no more than 1 hour.		**N/A**
	(d) Televisions with various selectable input sources shall prioritise the power management protocols of the signal source selected and displayed over those default power management mechanisms described in the paragraphs (a) to (c) above.		**N/A**
4.4	**Automatic standby in displays other than televisions**		**P**
	Electronic displays other than televisions, with various selectable input sources shall switch, as configured in the normal configuration, into standby mode, networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode when no input is detected by any input source for over 10 seconds and, for digital interactive whiteboards and for broadcast displays, for over 60 minutes.		**P**
	Before triggering such a switch, a warning message shall be displayed and the switch completed within 10 minutes.		**P**
D.	**MATERIAL EFFICIENCY REQUIREMENTS**		**P**
1.	**Design for dismantling, recycling and recovery**		**P**
	(a) Manufacturers, importers or their authorised	Will be evaluated by customer	**--**

	representatives shall ensure that joining, fastening or sealing techniques do not prevent the removal, using commonly available tools, of the components indicated in point 1 of Annex VII of Directive 2012/19/EU on WEEE or in Article 11 of Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators, when present. (b) The derogations indicated in Article 11 of Directive 2006/66/EC about permanent connection between the electronic display and the battery or accumulator apply. (c) Manufacturers, importers or their authorised representatives shall, without prejudice to point 1 of Article 15 of Directive 2012/19/EU, make available, on a free-access website, the dismantling information needed to access any of the products components referred to in point 1 of Annex VII of Directive 2012/19/EU. (d) This dismantling information shall include the sequence of dismantling steps, tools or technologies needed to access the targeted components. (e) This end of life information shall be available until at least 15 years after the placing on the market of the last unit of a product model.	before putting into European market.	
2.	**Marking of plastic components**		**P**
	Plastic components heavier than 50 g: (a) Shall be marked by specifying the type of polymer with the appropriate standard symbols or abbreviated terms set between the punctuation marks '>' and '<' as specified in available standards. The marking shall be legible. -Plastic components are exempt from marking requirements in the following circumstances: (i) the marking is not possible because of the shape or size; (ii) the marking would impact on the performance or functionality of the plastic component; and (iii) marking is technically not possible because of the molding method. -For the following plastic components no marking is required: (i) packaging, tape, labels and stretch wraps; (ii) wiring, cables and connectors, rubber parts and anywhere not enough appropriate surface area is available for the marking to be of a legible size;	Will be evaluated by customer before putting into European market.	--

	(iii) PCB assemblies, PMMA boards, optical components, electrostatic discharge components, electromagnetic interference components, speakers; (iv) transparent parts where the marking would obstruct the function of the part in question. (b) Components containing flame retardants shall additionally be marked with the abbreviated term of the polymer followed by hyphen, then the symbol 'FR' followed by the code number of the flame retardant in parentheses. The marking on the enclosure and stand components shall be clearly visible and readable.		
3.	**Cadmium logo**		**P**
	-Electronic displays with a screen panel in which concentration values of Cadmium (Cd) by weight in homogeneous materials exceed 0,01 % as defined in Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, shall be labelled with the 'Cadmium inside' logo. The logo shall be clearly visible durable, legible and indelible. The logo shall be in the form of the following graphic:  -The dimension of 'a' shall be greater than 9 mm and the typeface to be used is 'Gill Sans'. -An additional 'Cadmium inside' logo shall be firmly attached internally on the display panel or molded in a position clearly visible to workers once the external back cover bearing the external logo is removed. -A 'Cadmium free' logo shall be used if concentration values of Cadmium (Cd) by weight in any homogeneous material part of the display do not exceed 0,01 % as defined in Directive 2011/65/EU.	Will be evaluated by customer before putting into European market.	--
4.	**Halogenated flame retardants**		**P**
	-The use of halogenated flame retardants is not allowed in the enclosure and stand of electronic displays.	Will be evaluated by customer before putting into European market.	--
5.	**Design for repair and reuse**		**P**
	(a) Availability of spare parts: (1) manufacturers, importers or authorised representatives	Will be evaluated by customer before putting into European	--

	of electronic displays shall make available to professional repairers at least the following spare parts: internal power supply, connectors to connect external equipment (cable, antenna, USB, DVD and Blu-Ray), capacitors above 400 microfarads, batteries and accumulators, DVD/Blu-Ray module if applicable and HD/SSD module if applicable for a minimum period of seven years after placing the last unit of the model on the market; (2) manufacturers, importers or authorised representatives of electronic displays shall make available to professional repairers and end-users at least the following spare parts: external power supply and remote control for a minimum period of seven years after placing the last unit of the model on the market; (3) manufacturers shall ensure that these spare parts can be replaced with the use of commonly available tools and without permanent damage to the appliance; (4) the list of spare parts concerned by point 1 and the procedure for ordering them shall be publicly available on the free access website of the manufacturer, importer or authorised representative, at the latest two years after the placing on the market of the first unit of a model and until the end of the period of availability of these spare parts; (5) the list of spare parts concerned by point 2 and the procedure for ordering them and the repair instructions shall be publicly available on the manufacturer's, the importer's or authorised representative's free access website, at the moment of the placing on the market of the first unit of a model and until the end of the period of availability of these spare parts.	market.	
	(b) Access to repair and maintenance information After a period of two years after the placing on the market of the first unit of a model or of an equivalent model, and until the end of the period mentioned under (a), the manufacturer, importer or authorised representative shall provide access to the appliance repair and maintenance information to professional repairers in the following conditions: (1) the manufacturer's, importer's or authorised representative 's website shall indicate the process for professional repairers to register for access to information; to accept such a request, manufacturers, importers or authorised representative may require the professional repairer to demonstrate that:	Will be evaluated by customer before putting into European market.	--

	(i) the professional repairer has the technical competence to repair electronic displays and complies with the applicable regulations for repairers of electrical equipment in the Member States where it operates. Reference to an official registration system as professional repairer, where such system exists in the Member States concerned, shall be accepted as proof of compliance with this point; (ii) the professional repairer is covered by insurance covering liabilities resulting from its activity, regardless of whether this is required by the Member State; (2) the manufacturers, importers or authorised representatives shall accept or refuse the registration within 5 working days from the date of request by the professional repairer; (3) manufacturers, importers or authorised representatives may charge reasonable and proportionate fees for access to the repair and maintenance information or for receiving regular updates. A fee is reasonable if it does not discourage access by failing to take into account the extent to which the professional repairer uses the information.		
	Once registered, a professional repairer shall have access to the requested repair and maintenance information within one working day after requesting it. The available repair and maintenance information shall include: -the unequivocal appliance identification; -a disassembly map or exploded view; -list of necessary repair and test equipment; -component and diagnosis information (such as minimum and maximum theoretical values for measurements); -wiring and connection diagrams; -diagnostic fault and error codes (including manufacturer-specific codes, where applicable); and -data records of reported failure incidents stored on the electronic display (where applicable).	Will be evaluated by customer before putting into European market.	--
	(c) Maximum delivery time of spare parts (1) during the period mentioned under point 5(a)(1) and point 5(a)(2), the manufacturer, importer or authorised representatives shall ensure the delivery of the spare parts for electronic displays within 15 working days after	Will be evaluated by customer before putting into European market.	--

	having received the order; (2) in the case of spare parts available only to professional repairers, this availability may be limited to professional repairers registered in accordance with point (b).		
E.	**INFORMATION AVAILABILITY REQUIREMENTS**		**P**
1.	**Availability of software and firmware updates**		**P**
—	**ANNEX III** **Measurement methods and calculations** For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the Official Journal of the European Union or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art, and in line with the following provisions.	Following test method were refered: EN 62087-1:2016 EN 62087-2:2016 EN 62087-3:2016 (TV) EN 50564:2011	**P**
—	Measurements and calculations shall meet the technical definitions, conditions, equations and parameters set out in this Annex. Electronic displays which can operate in both 2D and 3D modes shall be tested when they operate in 2D mode.	2D operate	**P**
—	An electronic display which is split into two or more physically separate units, but placed on the market in a single package, shall, for checking the conformity with the requirements of this Annex, be treated as a single electronic display. Where multiple electronic displays that can be placed on the market separately are combined in a single system, the individual electronic displays shall be treated as single displays.	See general product information	**P**
1.	**General conditions** Measurements shall be made at an ambient temperature of 23 °C +/- 5 °C	Measured ambient temperature=24.8	**P**
2.	**Measurements of on mode power demand** Measurements of the power demand referred to in Annex II, point A (1) shall fulfil all of the following conditions: (a) measurements of power demand (Pmeasured) shall	a and b and c	**P**

	be made in the normal configuration; (b) measurements shall be made using a dynamic broadcast-content video signal representing typical broadcast content for electronic displays in standard dynamic range (SDR). The measurement shall be the average power consumed over 10 consecutive minutes; (c) measurements shall be made after the electronic display has been in the off mode or, if an off-mode is not available, in standby mode, for a minimum of 1 hour immediately followed by a minimum of 1 hour in the on mode and shall be completed before a maximum of 3 hours in on-mode. The relevant video signal shall be displayed during the entire on mode duration. For electronic displays that are known to stabilise within 1 hour, these durations may be reduced if the resulting measurement can be shown to be within 2 % of the results that would otherwise be achieved using the durations described here; (d) where ABC is available, measurements shall be made with it switched off. If ABC cannot be switched off, then the measurements shall be performed in an ambient light condition of 100 lux measured at the ABC sensor.		
—	**Measurements of peak white luminance** Measurements of the peak white luminance referred to in Annex II, point B.3 shall be made: (a) with a luminance meter, detecting that portion of the screen exhibiting a full (100 %) white image, which is part of a ‘full screen test’ pattern that does not exceed the average picture level (APL) point where any power limiting or other irregularity occurs in the electronic display luminance drive system affecting the electronic display luminance; (b) without disturbing the luminance meter’s detection point on the electronic display whilst switching between any of the conditions referred to in Annex II, point B.3.		**P**

1、Power Supply Unit Information

Power Supply Unit (PSU), Ambient, Supply voltage, UUT information.		
Items:		Contents:
Product name		LED MONITOR
UUT Input	Voltage:	24V⎓
	Current:	6.25A
	Frequency:	/
Power Supply Unit (PSU) Type		External power supply
EPS	Name	SWITCHING ADAPTER
	Manufacturer:	Shenzhen SOY Technology Co., Ltd.
	Model	SOY-2400625-454
	Input Rating:	100-240V~, 50/60Hz, 2.5A Max
	Output Rating	24.0V⎓6.25A 150.0W
	Efficiency Levels	VI
	Coverter Type	N/A
Test Supply Voltage	Fluctuation	≤ 0.5%
	Harmonic	≤ 2%
	Crest factor	Selectable for 3 or 6 (≥ 3) for difference range.
	Accuracy (V)	≤ 1%
	Wattmeter	≤ 0.5%
	Resolution	0.00001W (≤ 10W), 0.001W (10W≤ W ≤ 100W), 0.01W(>100W)
	Scanning Freq.	100kHz
Level of Confidence at		95%, K=2
Coverage Factor:		UC≤2% (Power > 0.5 W) or 0.01W (≤ 0.5W)
Ambient	Temperature(°C)	24.8°C
	Humidity(%)	50%
	Air Speed(m/s)	0.1m/s
Length of time when no signal switches to the standby state or off state(s)		10s
The length of time in open mode when automatically switching to standby mode or off mode(s)		8s
Sample Series no.		260309004-001
Model Difference		JN-49V165DQ-HSC9-L,**49***-*-*****,**-49******-****-* ("*"Representing numbers 0-9, letters A-Z, letters a-z, symbols "-" or blank space, only used to distinguish different product appearance colors, sales regions, and channels, and does not affect the safety and electromagnetic compatibility performance of the product)

Product Information / Test Result

Product Information	
Display type:	Panel Tech.: Liquid Crystal Display(LCD); Back Light:LED ☒ SDR; ☒ HDR
Panel supplier:	--
Screen diagonal:	124.46cm / 49 Inch
Visible screen area (dm^2)	39.96dm^2
Resolution:	5120*1440
Size ratio:	32:9
Automatic Brightness Control	N/A
Brightness:	N/A
Screen refresh rate:	165Hz
Contrast:	N/A
Screen Luminance When Shipped(cd/m2)	258.5
Screen Luminance Max (cd/m2)	289
Peak luminance ratio	89.32%
Force Menu	no
Network port	no
EUT Test Voltage	230Vac
Tested signal ports	HDMI
Sequence of mode Off mode:	The electronic switch is turned off to enter OFF mode.
Standby mode	Sleep automatically without signal.
On mode:	On mode: Provide the IEC 62087 dynamic broadcast-content video signal.
Test method	Sampling method

Power Consumption limit (W)	
Off mode	0.30
Standby mode	0.50

Power consumption Test Result (W)	
Stability	0.00
	The original configuration
Off mode	0.25
Standby mode	0.37
On mode	38.16(for reference only)
Result	PASS

Network standby Power Consumption limit (W)	
Network Standby mode	--

Network standby Power consumption Test Result (W)	
Stability	N/A
Network Standby mode	N/A
Result	N/A

Energy efficiency class of a Display(2019/2013)	
$corr_i$	0.00
Energy Efficiency Index	0.80
Energy efficiency class	F

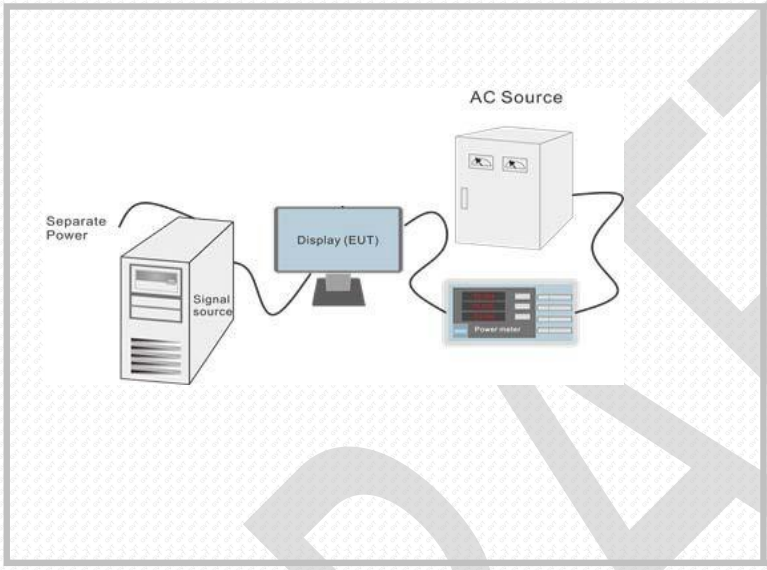
$EEI_{label}=(Pmeasured+1)/((3\times[90\times\tanh(0.025+0.0035\times(A-11))+4]+3)+corr_i)$

EEI limit for on-mode(2019/2021)	
corr	0.00
Energy Efficiency Index	0.76
1 March 2021	1.10
1 March 2023	0.90
Result	Pass

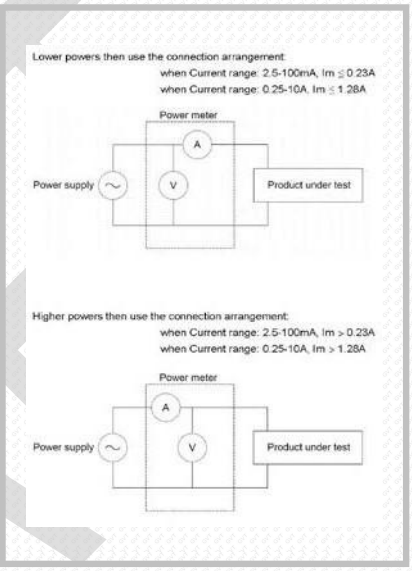
$$EEI = \frac{(P_{measured} + 1)}{(3 \times [90 \times tanh(0,02 + 0,004 \times (A - 11)) + 4] + 3) + corr}$$

2. Test Configuration Illustration and Nameplate

Test Configuration



Power Meter Configuration for Load



Product Nameplate

4. (EU) 2019/2013. ANNEX II Energy efficiency classes:

<table>
<tr><td colspan="5">Energy efficiency classes: SDR</td></tr>
<tr><td colspan="3">Standard</td><td colspan="2">Model</td></tr>
<tr><td colspan="3">(EU) 2019/2013</td><td colspan="2">MG49RQA-C-165Hz</td></tr>
<tr><td>Conditions</td><td colspan="4">-Test procedure :
COMMLCD MonitorION DELEGATED REGULATION (EU) 2019/2013
-Test Conditions: -Ambient:23±5℃, 50%R.H.-Test voltage: 230Vac</td></tr>
<tr><td colspan="2">Technical requirements</td><td colspan="3">Energy efficiency classes of electronic displays</td></tr>
<tr><td colspan="2" rowspan="2">EEI_{label}=(Pmeasured+1)/((3×[90×tanh(0.025+0.0035×(A-11))+4]+3)+$corr_i$)</td><td>Energy efficiency class</td><td colspan="2">Total mains efficacy EEI_{label}</td></tr>
<tr><td>A</td><td colspan="2">EEI_{label}＜0.30</td></tr>
<tr><td>A:</td><td>39.96</td><td>B</td><td colspan="2">0.30≤ EEI_{label}＜0.40</td></tr>
<tr><td>$P_{measured}$:</td><td>38.16</td><td>C</td><td colspan="2">0.40 ≤ EEI_{label}＜0.50</td></tr>
<tr><td>Corr1:</td><td>0</td><td>D</td><td colspan="2">0.50 ≤ EEI_{label}＜0.60</td></tr>
<tr><td>EEI_{label}</td><td>0.80</td><td>E</td><td colspan="2">0.60 ≤ EEI_{label}＜0.75</td></tr>
<tr><td rowspan="2">Energy efficiency classes</td><td rowspan="2">F</td><td>F</td><td colspan="2">0.75 ≤ EEI_{label}＜0.90</td></tr>
<tr><td>G</td><td colspan="2">0.90≤EEI_{label}</td></tr>
<tr><td colspan="5">$corr_i$ value by Electronic Display</td></tr>
<tr><td colspan="3">Electronic Display type</td><td>$corr_i$ value</td><td>--</td></tr>
<tr><td colspan="3">Television</td><td>0.0</td><td>--</td></tr>
<tr><td colspan="3">Monitor</td><td>0.0</td><td>P</td></tr>
<tr><td colspan="3">Digital signage: (0,00062 *(lum-500)*A)</td><td>--</td><td>--</td></tr>
</table>

Energy efficiency classes: **HDR**			
Standard		Model	
(EU) 2019/2013		MG49RQA-C-165Hz	
Conditions	-Test procedure : COMMLCD MonitorION DELEGATED REGULATION (EU) 2019/2013 -Test Conditions: -Ambient:23±5℃, 50%R.H.-Test voltage: 230Vac		
Technical requirements		Energy efficiency classes of electronic displays	
EEI_{label}=(Pmeasured+1)/((3×[90×tanh (0.025+0.0035×(A-11))+4]+3)+$corr_I$)		Energy efficiency class	Total mains efficacy EEI_{label}
		A	EEI_{label}＜0.30
A:	39.96	B	0.30≤ EEI_{label}＜0.40
$P_{measured}$:	39.27	C	0.40 ≤ EEI_{label}＜0.50
Corr1:	0	D	0.50 ≤ EEI_{label}＜0.60
EEI_{label}	0.82	E	0.60 ≤ EEI_{label}＜0.75
Energy efficiency classes	F	F	0.75 ≤ EEI_{label}＜0.90
		G	0.90≤EEI_{label}
$Corr_I$ value by Electronic Display			
Electronic Display type		$corr_I$ value	--
Television		0.0	--
Monitor		0.0	P
Digital signage: (0,00062 *(lum-500)*A)		--	--

Photo Documentation

Photo 1

View:

☒ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal

☐ signal ports

Photo 2

View:

☐ front

☒ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal

☐ signal ports

Photo 3

View:

☐ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal

☒ signal ports

Photo 4

View:

☒ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal

☐ signal ports

End of Report