**Technical Specifications** 

## **HP E27q G5 QHD Monitor**



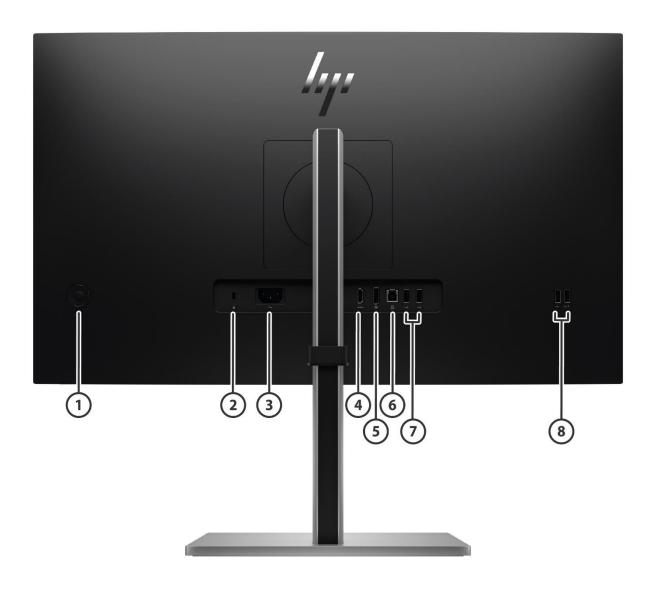
. Power Button

#### Front

2. LED Power

### **Technical Specifications**

### HP E27q G5 QHD Monitor



- 1. Joypad OSD button
- 2. Security Cable Slot
- 3. Power Connector
- 4. HDMI 1.4 Port 1.2

#### Back

- 5. DisplayPort™ 1.2
- **6.** USB-B port
- **7.** SuperSpeed USB Type-A 5Gbps signaling rate (2)
- 8. SuperSpeed USB Type-A 5Gbps signaling rate (2) 1 charging

#### **Technical Specifications**

Model: 6N6F2AA

Panel SpecificationsDisplay Size (Diagonal)27 inch (68.6 cm)Viewable Diagonal Size27 inch (68.6 cm)

Panel Technology IPS
Max Refresh Rate 75Hz

Native Resolution QHD (2560 x 1440)

Panel Bit Depth True 8 bit
Aspect Ratio 16:9
Brightness (Typical) 350 nits
Contrast Ratio (Static) 1000:1
Dynamic Contrast Ratio 8M:1
Flicker Free Yes

Pixel Pitch 0.23 x 0.23 mm

Pixels Per Inch (PPI) 109 PPI

**Display Colors** Up to 16.7 million colors supported

30k

**Backlight Lamp Life Minimum (To Half** 

Brightness - In Hours)

Backlight TypeEdge-litScreen TreatmentAnti-glareHardness3HHaze25%

**Response Time (Typical)** 5ms GtG (with overdrive)

**Horizontal Viewing Angle** 

(Typical Cr>10)

Vertical Viewing Angle (Typical Cr>10) 178°

Panel Active Area Metric (W X H) 59.67 x 33.57 cm Panel Active Area Imperial (W X H) 23.49 x 13.22 in

**NOTE:** Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

178°

Color sRGB 99%

**Color Management** Color Space/ Subsampling Support RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2

RGB Channel Adjust Yes, Gain
Default Color Temperature Neutral (6500K)

Monitor Specifications Bezel Type 3-sided borderless

**Color Of Stand** Black & Silver

Color Of Head Black

Tilt Yes, -5~+20°

Swivel ±45°
Pivot ±90°
Height Adjust Range 150 mm

Vesa Mounting100 mm x 100 mmSecurity LockSecurity lock-ready

**Detachable Stand** Yes

Warranty 3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries)

#### **Technical Specifications**

**Low Blue Light**Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution

certified)

Management Software HP Display Center, HP Display Manager\*

\*Host PC requires Windows 10 and above. HP Display Center is

available on the Microsoft store.

On Screen Display (OSD)

On Screen Display Brightness+, Color Control, Image Control, Input Control,

Power Control, Menu Control, Management, Information,

Exit

Native Resolution QHD (2560 x 1440)

NOTE: DisplayPort 1.2 & HDMI 1.4 required to drive panel at its

native resolution.

Maximum Resolution QHD (2560 x 1440 @ 75 Hz)

**Preset Graphic Modes/Supported** 640 x 480 @ 60Hz **Resolutions** 640 x 480 @ 75Hz

720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 800 x 600 @ 75 Hz 1024 x 768 @ 60 Hz 1024 x 768 @75 Hz 1280 x 720 @ 50 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz

1280 x 1024 @ 60 Hz 1280 x 1024 @ 75 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 50 Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 75 Hz 1920 x 1200 @ 60 Hz

1600x1200 @ 60Hz 2560x1440 @ 75Hz 2560 x 1440 @60Hz 50 Hz

Maximum Vertical Scan Rate75 HzMinimum Horizontal Scan Rate30.0 kHzMaximum Horizontal Scan Rate115.0 kHzMaximum Pixel Clock300.0 MHzUser-Assignable Function ButtonsYes, 4 (6 options)

11 (English, Spanish, German, French, Italian,

**Languages** Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese

and Russian)

Connector Types DisplayPort™ 1.2

**Minimum Vertical Scan Rate** 

**HDMI** 1 HDMI 1.4

**HDCP** Yes, DisplayPort and HDMI

#### **Technical Specifications**

4 SuperSpeed USB Type-A 5Gbps signaling rate (1 **USB-A** 

charging) **USB-B** 1 USB-B

**Special Features SWITCH** Monitor Power button

> Next Active Input/ Up button Information / Down button Brightness / Left button Color / Right button Menu / Enter button

**User Presets** 18

**Power & Operating** 

**Specs** 

**Power Supply** Internal

**Power Source** 100 - 240 VAC 50/60 Hz

**Power Consumption- Max** 60W **Energy Saving/Stand By Mode** 0.5W **Power Consumption - Typical** 35W

**Energy Star Data** Operational Mode at 100 VAC 19.87W

> Operational Mode at 115 VAC 19.85W Operational Mode at 230 VAC 20.01W

**EU Energy Efficiency** 

Class (ErP LOT-5)

**On-mode Power Consumption for** 21W Standard Dynamic Range (SDR)

**ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)** 



5°-35°C

**Operating Conditions Operating Temperature - Celsius** 

> 41° - 95°F **Operating Temperature - Fahrenheit** -40° - 65°C Non-Operating Temperature - Celsius Non-Operating Temperature --40° - 149°F

**Fahrenheit** 

**Operating Humidity** 20 - 80% Relative Humidity (non-condensing)

5-95% **Non-Operating Humidity** 

**Operating Altitude** 0 – 5,000 m (16,400 ft.) **Non-operating Altitude** 0 - 12,192 m (40,000 ft.)

**Certifications and** Compliances

Low Halogen Yes\*

\*External power supplies, WWAN modules, power cords, cables

and peripherals excluded.

**Agency Approvals and Certifications** WW application

> CE/CB/KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/cTUVus/GS/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Hardware Low Blue Light/Energy

Star/ISC/VCCI/FCC/BSMI/BIS/NRCS/UAE/Ukraine/Ukraine

EE/WEEE/TGM/PSE/E-Standby (Korea MEPS)/ EAC

**Microsoft WHQL Certification** Win 11 (x64 only), Win 10 (x64 only)

**ENERGY STAR® Certified** Yes

rechnical Specifical	IONS		
	EPEAT® Registered Regions need to verify by country	EPEAT® Gold in United Stat	es*
		*Based on US EPEAT® registra 2018 EPEAT®. Status varies by http://www.epeat.net for m	-
	China Energy Label	CEL Grade 1	
	TCO Certified Edge	Yes	
	TCO Certified	Yes	
	SmartWay Transport Partnership - NA only	Yes (NA sku)	
Contains Recycled Plastics	Contains Recycled Plastics	Contains Ocean-Bound Plast	ic* 85% ITE-derived closed
		-	n-bound plastic. Percentage of d in each component varies by
		•	stic percentage is based on the
	Recycled Metals	At least 25% recycled meta	al*
		*Recycled metal is expressed	as a percentage of the total weight 14021 definitions for metal parts
	Recyclable Packaging (Box, packing	Outside Box and corrugate	d cushions are 100%
	materials)	sustainably sourced and re	
		Molded Paper Pulp Cushion	inside box is 100%
		sustainably sourced and re	cyclable**
		*100% outer box packaging a sustainably sourced certified a	nd corrugated cushions made from and recycled fibers.
		**Molded pulp cushions are m fiber and organic materials.	ade from 100% recycled wood
		<u>Metric</u>	<u>Imperial</u>
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	61.4 x 22.7 x 54.7 cm	24.16 x 9.93 x 21.53 inch
-	Product Dimensions	69.9 x 16 x 44.6 cm	27.52 x 6.3 x 17.56 inch

Unit Product/Package
Specifications

	<u>Metric</u>	<u>Imperial</u>
Product Dimensions	61.4 x 22.7 x 54.7 cm	24.16 x 9.93 x 21.53 inch
(Unpacked with stand) (W $\times$ D $\times$ H)	01.4 X 22.7 X 34.7 CIII	24.10 X 3.33 X 2 1.33 IIICII
Product Dimensions	69.9 x 16 x 44.6 cm	27.52 x 6.3 x 17.56 inch
(Packed) (W x D x H)		
Display Head Dimensions	61.34 x 4.83 x 36.46 cm	24.16 x 1.9 x 14.35 inch
(Unpacked without stand) (W x D x H)	(w/o hinge)	(w/o hinge)
	61.34 x 7.45 x 36.46 cm	24.16 x 2.93 x 14.35 inch
	(w/ hinge)	(w/ hinge)
Base Area Footprint	256 x 205 mm	10.08 x 8.07 inch
(w x d mm)		
Bezel Measurements	Bottom:20.57mm	Bottom: 0.8inch
Product Weight	7.08 kg	15.61 lb
(Unpacked with stand)		
Product Weight	11.00 kg	24.24 lb
(Packed)		
Product Weight	4.94 kg (w/o hinge)	10.88 lb (w/o hinge)
(Head Only)	5.29 kg (w/ hinge)	11.66 lb (w/ hinge)



#### **Technical Specifications**

Pallet Information	Pall
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**Pallet Dimensions** 

**Pallet Total Weight** 

(L x W x H mm)

(20' ft/40' ft) Slip Sheet: 1130 x 709 x 2255 mm (20' ft/40' ft) Pallet:

44.49 x 27.91 x 88.78 inch (20' ft/40' ft) Pallet: 44.49 x 27.91 x 75.83 inch (40' HQ) Slip Sheet: 44.49 x 27.91 x 88.78 inch

(20' ft/40' ft) Slip Sheet:

1130 x 709 x 2255 mm (40' HQ) Pallet:

1130 x 709 x 1926 mm

(40' HQ) Slip Sheet:

(40' HQ) Pallet: 44.49 x 27.91 x 93.50 inch

1130 x 709 x 2375 mm

Slip Sheet:1903 lb Slip Sheet: 865 kg (40' ft&20' ft) (40' ft&20' ft) Slip Sheet: 865 kg Slip Sheet:1903 lb

(40' HQ) Pallet: 705 kg (40' ft&20' ft) Pallet: 875 kg (40' HQ)

(40' HQ) Pallet: 1551 lb (40' ft&20' ft) Pallet:1925 lb (40' H0)

4 layers per pallet (20' ft/40' ft) **Pallet Layers** 5 layers per pallet (40' HQ)

7 per layer

28 sets per pallet (20' ft/40' ft) Total Products per Pallet 35 sets per pallet (40' HQ)

560 sets (slip sheet) 448 sets (pallet)

1120 sets (slip sheet) Container Load, 40-Foot

896 sets (pallet) 1120 sets (slip sheet)

Container Load, 40-Foot HighQ

Pallet Product per Layer

Container Load, 20-Foot

1120 sets (pallet)

What's in the box?

HDMI 1.4 cable (1.8m) 5.9 ft USB 3.0 B-A cable (1.8m) DP 1.2 cable (1.8m)

Warranty

**Quick Setup Poster** 

AC power cord (1.83m) 5.9ft

**User Guide and Warranty Languages** 

**User Guide Languages** 

Arabic, Bahasa Indonesia, Bulgarian, Chinese-S, Chinese-

T, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian,

Norwegian, Polish, Portuguese (Brazilian), Portuguese (Iberian), Romanian, Russian, Serbian, Slovak, Slovenian,

Spanish, Swedish, Thai, Turkey, Ukrainian

**Warranty Languages** English US (EN), English AP (EN-AP), English LA (EN-LA), English UK (EN-GB), Arabic (AR) -17x, Bahasa Indonesia

(ID), Bosnian (BS), Bulgarian (BG), Chinese-S (CN), Chinese-T (TW), Croatian (HR), Czech (CS), Danish (DA), Dutch (NL), Estonian (ET), Finnish (FI), French Canadian (FC), French European (FR), German (DE), Greek (EL),

Hebrew (HE), Hungarian (HU), Italian (IT), Japanese (JA),

#### **Technical Specifications**

Kazakh (KK), Korean (KO), Latvian (LV), Lithuanian (LT), Norwegian (NO), Polish (PL), Portuguese, Brazilian (BR), Portuguese, Iberian (PT), Romanian (RO), Russian (RU), Serbian (SR), Slovak (SK), Slovenian (SL), Spanish, Castilian (ES-ES), Spanish, Latin America (ES-MX), Swedish (SV), Thai (TH) Turkish (TR), Ukrainian (UK), Vietnamese (VI)



### **Technical Specifications**

#### **ENVIRONMENTAL DATA**

<b>ENVIRONMENTAL DATA</b>				
Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:  • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified Edge • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*			
Sustainable Impact Specifications	<ul> <li>85% ITE – derived closed loop plastic</li> <li>5% recycled metal</li> <li>Low halogen</li> <li>Outside Box and corrugated cushions are 100% sustainably sourced and recyclable</li> <li>Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable</li> <li>Recycled Plastic cushions</li> </ul>			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115000 600-	220//00 E0H-	100VAC FOH-	
Normal Operation (Short	115VAC, 60Hz 20.33 W	<b>230VAC, 50Hz</b> 20.43 W	100VAC, 50Hz 20.43 W	
idle)  Normal Operation (Long	20.33 W	20.43 W	20.43 W	
idle)				
Sleep Off	0.15 W 0.12 W	0.21 W 0.2 W	0.14 W 0.11 W	
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	69.5 BTU/hr	69.9 BTU/hr	69.9 BTU/hr	
Normal Operation (Long idle)	69.5 BTU/hr	69.9 BTU/hr	69.9 BTU/hr	
Sleep	0.5 BTU/hr	0.7 BTU/hr	0.5 BTU/hr	
Off	0.4 BTU/hr	0.7 BTU/hr	0.4 BTU/hr	
	* <b>NOTE:</b> Heat dissipation is attained for one hour.	calculated based on the me	asured watts, assuming the service level is	

Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the			
	<ul> <li>Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.</li> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.</li> <li>This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net</li> <li>Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.</li> <li>This product is 98.7% recycle-able when properly disposed of at end of life.</li> </ul>			
Additional Information				
Packaging Materials	External:	PAPER/Corrugated	990 g	
		PAPER/Corrugated	790 g	
		PAPER/Molded Pulp	570 g	
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	30 g	
	The plastic packaging material contains at least 0.0% recycled content.			
RoHS Compliance	The corrugated paper packaging materials contains at least 90% recycled content.  HP Inc. complies fully with materials regulations. We were among the first companies to extend restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.  We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.			
	We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.  To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.			
Material Usage	to the HP Ge http://www.  Asb Cert Cert Cad Chlo	does not contain any of the following substances in excessioneral Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/supplychaicestos sain Azo Colorants sain Brominated Flame Retardants — may not be used as flamium prinated Hydrocarbons prinated Paraffins 2-Ethylhexyl) phthalate (DEHP) zyl butyl phthalate (BBP)	in/gen_specifications.html):	



recinical specification			
	<ul> <li>Dibutyl phthalate (DBP)</li> <li>Diisobutyl phthalate (DIBP)</li> <li>Formaldehyde</li> <li>Halogenated Diphenyl Methanes</li> <li>Lead carbonates and sulfates</li> <li>Lead and Lead compounds</li> <li>Mercuric Oxide Batteries</li> <li>Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>Ozone Depleting Substances</li> <li>Polybrominated Biphenyls (PBBs)</li> <li>Polybrominated Biphenyl Ethers (PBBEs)</li> <li>Polybrominated Biphenyl Oxides (PBBOs)</li> <li>Polychlorinated Biphenyl (PCB)</li> <li>Polychlorinated Terphenyls (PCT)</li> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>Radioactive Substances</li> <li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>		
Packaging Usage	<ul> <li>HP follows these guidelines to decrease the environmental impact of product packaging:</li> <li>Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>Design packaging materials for ease of disassembly.</li> <li>Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>		
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.  The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.		
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:  Global Citizenship Report     http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications     http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates:     http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842     and     http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf		



footnotes	Percentage of ocean-bound plastic contained in each component varies by product
	<ul> <li>Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li> </ul>
	<ul> <li>External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li> </ul>
	<ul> <li>100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li> </ul>
	<ul> <li>Fiber cushions made from 100% recycled wood fiber and organic materials.</li> </ul>
	Plastic cushions are made from >90% recycled plastic.
	<ul> <li>Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams</li> </ul>



#### **Technical Specifications**

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### Summary

Change Log				
January 10, 2023	V1 to V2	Added	Environmental Data	
	V2 to V3			

