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HPE G2 Metered and Switched Power Distribution Units QuickSpecs

New G2 features allow for greater management of power and environment in IT racks.

HPE Enterprise Series G2 Metered and Switched PDUs are designed to work precisely with HPE Infrastructure and Compute solutions, providing a highly accurate (billing-grade accuracy) power distribution solution with outlet-level metering and switching for your IT racks. Designed for use with HPE Standard, Advanced, and Enterprise racks (and compatible with other industry-standard server racks), HPE G2 Metered and Switched PDUs guarantee a compatible fit and reliable operation backed by a 3-year warranty. HPE G2 Metered and Switched PDUs are also rated for operating temperatures up to 60°C, adding an increased level of operational reliability for power distribution in your IT racks.

Overview

A major concern for IT administrators and facility managers is their ability to quickly diagnose and service power related problems in their IT racks. G2 Metered & Switched PDU features such as color-coded outlets and low-profile form factors allow for simple and quick access to IT equipment and power cables in the rear of the rack.

HPE G2 Metered & Switched PDU features are also directly focused on other pain points in the data center. 1Gb Ethernet alleviates the need to maintain older switch solutions that have been traditionally required for PDU network connectivity. High-density outlet configurations that provide up to 48 power outlets in a full-height vertical form factor allow for simple access to power in the rack while minimizing physical cable requirements. Support for up to eight sensors per PDU provides a cost-effective and exhaustive solution for monitoring the environmental elements (temperature, humidity, and leakage) in both the front and rear of the rack.

All G2 Metered & Switched PDU models feature support for the HPE IEC Locking Power Cords, a new supported option available for most HPE G2 PDUs. The IEC Locking Power Cords provide secure cable retention to both the PDU and target device, protecting against vibration during shipping and ensuring that cables are not dislodged during a service event. HPE's IEC Locking Power Cords provide a safe and secure solution against the common issues that lead to power-related downtime.

Why HPE Metered and Switched PDUs?

- HPE Tech Care services purchased for server and storage products, such as extended warranties and premium support services, extend to our PDU products free of charge when purchased together.
- HPE guarantees 100% compatibility between its Rack and Power Infrastructure products and its industry-standard compute, storage, and networking solutions, backed with a 3-year warranty for all G2 Metered PDU models.
- HPE offers multiple Metered PDU form factors that promote efficient use of space in the rack and provide flexibility in how each PDU can be mounted and configured with cables.

Overview

Single-Phase Full-Height Model (P9S15A, P9S18A)



Three-Phase Full-Height Model (P9S21A, P9S24A)



Three-Phase High-Density Outlet Model (P9S23A, P9S25A)



200–208V Input, Three Phase, North America/Japan

HPE G2 Metered/Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	P9S19A
HPE G2 Metered/Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Out (12) C13 (12) C19/Vertical NA/JP PDU	P9S22A
HPE G2 Metered/Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Out (36) C13 (12) C19/Vertical NA/JP PDU	P9S23A

220–240V Input, Three Phase, International

HPE G2 Metered/Switched 3Ph 11kVA/60309 5-wire 16A/230V Out (18) C13 (6) C19/Vertical INTL PDU	P9S20A
HPE G2 Metered/Switched 3Ph 22kVA/60309 5-wire 32A/230V Out (36) C13 (12) C19/Vertical INTL PDU	P9S25A

Standard Features

Power Metering and Management

- All G2 HPE Metered & Switched PDUs meet IEC 62053-21, Class 1 standards for ±1% or better accuracy in outlet-level power metering of:
  - Amperage
  - Voltage
  - Wattage
  - Kilowatts per hour
- OLED display provides local monitoring and alert indications.
- Remote PDU management and power monitoring supported through integrated web-based user interface, CLI, and third-party software applications supporting SNMP.

Compatibility

- Designed specifically for use with HPE rack enclosures, but compatible with most 3rd party IT racks.
- Integrated web-based user interface compatible with IPv4/IPv6 and SNMPv1/SNMPv3.

Usability

- Multiple full-height vertical models with a range of outlet configurations.
- Low-profile form factors ensure integrity of rear-rack keep-out zone for IT maintenance.
- Color-coded receptacles to easily distinguish between the different load segments/phases.
- Integrated cord retention for all IEC C19 and C13 receptacles.
- Optional dual-locking power cords securing both power connections.
- Local and remote firmware updates.

Security

- Outlet-level on/off power switching that can be accessed locally and remotely.
- Local and LDAP security with multiple access levels.
- Support for HTTP, HTTPS, and SSH protocols.
- Configurable alarm thresholds for both power and environmental monitoring.

HPE G2 Metered & Switched PDUs support multiple features that are unique to HPE and help to provide the best user experience. Information on these features is summarized below with additional information found online in HPE G2 Metered & Switched PDU User's Guide.

Rated for High Operating Temperatures

Increasing IT densities and escalating operating costs have created a need for rack infrastructure that can operate reliably at higher operating temperatures. HPE G2 PDUs have been designed with high temperature-rated premium components and construction that support increased reliability levels at elevated temperatures. HPE G2 PDUs are rated for operation in temperatures up to 60°C (or 140°F) in the rear of the rack.

Standard Features

IEC Locking Power Cords

HPE G2 PDU models support optional IEC Locking Power Cords with an integrated locking technology on both ends of the cable. HPE Locking Power Cord are available for both C13/14 and C19/20 power receptacles in multiple cable length options, and can be purchased in single or six-pack kits. One IEC Locking Power Cord has been included with each PDU model that supports either a C13 and/or C19 outlet.

High-Density Vertical PDU Models

High-density Vertical PDU models provide 48 outlets in a full-height (42U) form factor. This density is achieved by placing the power receptacles on one side of the PDU and access to the circuit breakers on the opposite side without significantly impacting the height (profile) of the PDU. See the Model Matrix section for more information on high-density PDU models.

Color-Coded Outlets

All HPE G2 PDU models now include color-coded outlets which are highly visible from the rear of the rack. The color-coding helps to easily and clearly identify outlets to simplify cabling and power phase balancing when configuring your IT equipment.

1Gb Ethernet Support

HPE is the first IT solutions company to standardize on 1Gb Ethernet for PDU network connectivity. This eliminates the need to maintain older switching solutions needed for the 10/100 connectivity provided by most other PDU manufacturers.

Environmental Sensors

HPE G2 Metered & Switched PDU models include two environmental sensor ports (can be upgraded to six ports with the addition of up to two G2 PDU Sensor Port Hubs) that can monitor and record up to eight sensor measurements. Multiple sensor options are available providing the ability to monitor temperature, humidity, water leakage, and intrusion for each rack. Please review the Related Options section for a list of the options available.

Flexible Mounting

Most vertical HPE G2 PDU models support mounting on the back and both sides of the PDU using an industry-standard button and keyhole mounting system for easy drop-in installation. This provides a flexible mounting capability that allows power cables to be configured with outlets facing toward the center, back, or front of the rack.

Standard Features

HPE PDU Extension Bar Options

HPE PDU extension bar options help expand the availability of power in the rear of the rack. Each extension bar includes a locking input power cord that connects to the PDU and supports HPE's new IEC Locking Power Cords for C13/C14 and C19/C20 outlets. HPE PDU extension bars can be added to Horizontal and Vertical PDU models, with available C19 outlets, to add additional power outlets and expand access to power in the back of the rack when needed. Extension Bars mount directly to the frame of the rack in multiple locations allowing you the flexibility of placing access to power where it is needed most (see figure above). Multiple extension bar options are available to help you customize the outlet configurations you require extension bars are also compatible with previous generation PDU models that offer C20 outlets (locking feature only supported on new G2 PDU models). See the Related Options section for more information on G2 Extension Bar models.

3-Year Warranty

HPE G2 Metered PDU models are supported with a 3-year warranty. Additionally, the HPE Tech Care Extension program provides additional support and services for your PDU models when purchased with HPE servers, storage, and networking solutions at no additional charge.

Additional information regarding worldwide limited warranty and technical support is available at: https://support.hpe.com/connect/s/warrantycheck.

Other related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=5981-9356enw.

HPE Installation and Startup Service

Provides for the installation of your HPE hardware according to product specifications including options. The HPE service delivery technician will connect the product to a LAN as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux).

DC for Hyperscale

Complete Care for Hyperscale is available for Service Providers and HPC customers who use a scale out approach to computing with a high-volume homogenous infrastructure and resilient architecture can take advantage of this environment support tailored to their operating model.

Standard Features

HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

HPE Service Credits

HPE Service Credits offers flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn.

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers.
Learn more http://www.hpe.com/support/hpesc.

The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.
Notes: *HPE Support Center Mobile App is subject to local availability.

For more information: http://www.hpe.com/services.

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA.

Standard Features

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Packard Enterprise due to malfunction.

Service and Support

For the most up-to-date information on HPE Services, please refer to the HPE Services – Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

Related Options

Extension Bars

HPE G2 IEC C20 Input/(8) C13 Expansion Outlets/PDU Extension Bar Kit	P9Q66A

Notes: All kits include 2 extension bars with a locking C19 input power cord (1.8m).

IEC Locking Power Cords

HPE C13 - C14 WW 250V 10Amp 0.7m Black Locking Power Cord	Q0P67A
HPE C13 - C14 WW 250V 10Amp 0.7m Black 6-pack Locking Power Cord	Q0Q02A
HPE C13 - C14 WW 250V 10Amp 1.4m Black Locking Power Cord	Q0P68A
HPE C13 - C14 WW 250V 10Amp 1.4m Black 6-pack Locking Power Cord	Q0Q03A
HPE C13 - C14 WW 250V 10Amp 2m Black Locking Power Cord	Q0P69A
HPE C13 - C14 WW 250V 10Amp 2m Black 6-pack Locking Power Cord	Q0Q04A
HPE C13 - C14 WW 250V 10Amp 3m Black Locking Power Cord	Q0P70A
HPE C19 - C20 WW 250V 16Amp 0.7m Black Locking Power Cord	Q0R19A
HPE C19 - C20 WW 250V 16Amp 2m Black Locking Power Cord	Q0P72A
HPE C19 - C20 WW 250V 16Amp 2m 6-pack Black Locking Power Cord	Q0R17A

Notes: HPE Locking Power Cords are only supported on either C13/14 or C19/20 outlets using HPE G2 PDUs.

IEC Standard Power Cords

HPE C13 - C14 WW 250V 10Amp 1.4m Jumper Cord	142257-006
HPE C13 - C14 WW 250V 10Amp 2.0m Jumper Cord	A0K02A
HPE C13 - C14 WW 250V 10Amp Flint Gray 2.0m Jumper Cord	AF573A
HPE C13 - C14 WW 250V 10Amp 2.5m Jumper Cord	142257-002
HPE C13 - C14 WW 250V 10Amp 3.0m Jumper Cord	142257-003
HPE C20 - C13 WW 250V 15Amp 2.0m Jumper Cord	AF590A
HPE C19 - C20 WW 250V 16Amp Flint Gray 1.20m Jumper Cord	AF575A
HPE C19 - C20 WW 250V 16Amp Flint Gray 2.0m Jumper Cord	AF574A
HPE C19 - C20 WW 250V 16Amp 2.5m Jumper Cord	295633-B22

Country-Specific Power Cords

HPE C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
HPE C13 - Nema 5-15P TH/PH 250V 10Amp 1.83m Power Cord	AF559A
HPE C19 - CEE-VII EU 250V 16Amp 3.6m Power Cord	AF576A
HPE C19 - Nema L6-20P NA/JP 250V 20Amp High Voltage 3.6m Power Cord	AF593A

HPE Mounting Brackets

HPE Vertical PDU 10K G2 Mounting Kit	H6L32A

Notes: This kit allows for vertical HPE G2 PDU models to be mounted in HPE 10000 G2 series racks and in the HPE Standard Series rack.

Related Options

Environmental Sensors

HPE G2 Metered PDUs include 2 physical sensor ports and can monitor and record up to eight sensor measurements. Data collected by each sensor can be viewed and managed through the integrated graphical user interface (GUI), or by third-party applications that communicate through SNMP or through a Redfish supported API. Consult the HPE G2 Metered PDU User Guide for more information on use with third-party software applications.

HPE G2 PDU Environmental Temperature Sensor P9T00A

Notes: Requires one input port and monitor/records one sensor measurement.

HPE G2 PDU Environmental Temperature and Humidity Sensor P9T01A

Notes: Requires one input port and monitors/records two sensor measurements.

HPE G2 PDU Environmental 3 Temperature and 1 Humidity Sensor P9T02A

Notes: Requires one input port and monitors/records four sensor measurements.

HPE G2 PDU Open Door Sensor P9T03A

Notes: Requires two input ports and monitors/records two sensor measurements.

HPE G2 PDU Leak Detection Sensor P9T04A

Notes: Requires one input port and monitors/records one sensor measurement. Kit covers up to six linear meters and can be expanded to cover up to thirty linear meters with the addition of up to four HPE G2 PDU Leak Detection Sensor Extension Kits (P9T08A).

HPE G2 PDU Sensor Port Hub P9T07A

Notes: This is an adapter that expands a single physical sensor port into three physical sensor ports.

HPE G2 PDU Leak Detection Sensor Extension Kit P9T08A

Notes: Leak Detection Sensor (P9T04A) must be purchased separately to use in conjunction with this kit. Up to four Extension Kits can be added to a single Leak Detection Sensor to cover up to a maximum of thirty linear meters.

Technical Specifications

Mounting options for Vertical PDU models in HPE Advanced and Enterprise racks (1075mm depth)							
Model	W x H x D (inches)	Unit Weight (lbs.)	Vertical Height	Maximum PDUs per Side of Rack			
				22U	36U	42U	48U
P9S15A	2.047 x 68.898 x 2.087	17.6	Full-Height	-	-	2	2
P9S18A	2.047 x 68.898 x 2.087	15.0	Full-Height	-	-	2	2
P9S19A	2.047 x 68.898 x 2.087	16.2	Full-Height	-	-	2	2
P9S20A	2.047 x 68.898 x 2.087	12.5	Full-Height	-	-	2	2
P9S21A	2.047 x 68.898 x 2.953	25.2	Full-Height	-	-	1	1
P9S22A	2.047 x 68.898 x 2.953	25.6	Full-Height	-	-	2	2
P9S23A*	2.047 x 71.654 x 4.409	32.0	Full-Height	-	-	2	2
P9S24A	2.047 x 68.898 x 2.953	20.2	Full-Height	-	-	2	2
P9S25A*	2.047 x 71.654 x 4.409	24.2	Full-Height	-	-	1	1

* HPE high density model mounts on its side with outlets facing the back of the rack

Notes: HPE G2 Advanced and Enterprise 1200mm deep racks include an extra set (2) of PDU trays in the rear of the rack enabling support of up to 2x the number of PDUs listed above for 1075mm deep racks.

Model Matrix – Input Power						
Model	Region	Phase & Nominal Voltage	Input Amps	Circuit Breaker	Input Plug Type	Input Cord Length
P9S15A	NA/JP	1-ph, 208V	24A	(2) 2-pole 20A	L6-30P	10′
P9S18A	INTL	1-ph, 230V	32A	(2) 1-pole 16A	IEC 32A, 1ph	10′
P9S19A	NA/JP	3-ph, 208V	24A	(3) 2-pole 20A	L15-30P	10′
P9S20A	INTL	3-ph, 200–240V 3-ph, 346–415V	16A	none	IEC 16A, 3ph	10′
P9S21A	NA/JP	3-ph, 208V	40A	(6) 2-pole 20A	CS8365C	10′
P9S22A	NA/JP	3-ph, 208V	48A	(6) 2-pole 20A	IEC 60A, 3ph	10′
P9S23A	NA/JP	3-ph, 208V	48A	(6) 2-pole 20A	IEC 60A, 3ph	10′
P9S24A	INTL	3-ph, 200–240V 3-ph, 346–415V	32A	(6) 1-pole 16A	IEC 32A, 3ph	10′
P9S25A	INTL	3-ph, 200–240V 3-ph, 346–415V	32A	(6) 1-pole 16A	IEC 32A, 3ph	10′

Notes: All Input Circuit Ratings for NA/JP models have been de-rated according to NEC requirements.

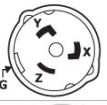
Nominal Input Voltage Ratings used for calculating output power are as follows:

- 200–208V: 208V
- 220–240V: 230V
- 200–240V/346–415V: 230V

Technical Specifications

Model Matrix – Output Power						
Model	Region	kVA	Output Voltage Range	Output Receptacles	Support Extension Bar Options	Support Locking Power Cord Options
P9S15A	NA/JP	4.9	200–208V	(20)C13, (4)C19	✓	✓
P9S18A	INTL	7.3	220–240V	(20)C13, (4)C19	✓	✓
P9S19A	NA/JP	8.6	200–208V	(18)C13, (6)C19	✓	✓
P9S20A	INTL	11	220–240V	(18)C13, (6)C19	✓	✓
P9S21A	NA/JP	14.4	200–208V	(12)C13, (12)C19	✓	✓
P9S22A	NA/JP	17.3	200–208V	(12)C13, (12)C19	✓	✓
P9S23A	NA/JP	17.3	200–208V	(36)C13, (12)C19	✓	✓
P9S24A	INTL	22	220–240V	(12)C13, (12)C19	✓	✓
P9S25A	INTL	22	220–240V	(36)C13, (12)C19	✓	✓

Technical Specifications

Voltage	Amps	# Wires	Plug Name	Sample Plug Image (color may vary by manufacturer)	
				Receptacle (R)	Plug (P)
100–125 V Single Phase	15 A	3	NEMA 5-15		
	20 A	3	NEMA 5-20		
	30 A	3	NEMA L5-30		
200–240 V Single Phase	20 A	3	IEC C20		
	30 A	3	NEMA L6-30		
	32 A	3	IEC 309 32A		
	50 A	3	CS8265C		
	63 A	3	IEC 309 63A		
200–208 V NA/JPN Three Phase	30 A	5	NEMA L15-30		
	30 A	5	NEMA L21-30		
	50 A	4	CS8365C		
	60 A	4	IEC 309 60A		
200–240 V 400–415 V INTL Three Phase	16 A	5	IEC 309 16 A		
	32 A	5	IEC 309 32 A		

Technical Specifications

Operating Temperature	50° to 140°F (10° to 60°C)
Operating Relative Humidity (%)	10% to 90%
Operating Elevation	0 to 10,000 ft. (0 to 3000 m)
Storage Temperature	−4° to 140°F (−20° to 60°C)
Storage Relative Humidity (%)	5% to 95%
Storage Elevation	0 to 30,000 ft. (0 to 9144 m)
Conformance Standards	UL or CSA, CB Test+ FCC, ICES, VCCI - NA/JPN models CE, DEMKO, EAC, KC+KCC, ACMA, Ukraine - INTL models UL or CSA, CB Test+CE, DEMKO, EAC, FCC, ICES, KCC, KC, VCCI ACMA, Ukraine - WW models
Kit Contents	All G2 Metered & Switched PDU models ship with: – Mounting brackets/hardware – Tie wraps – HPE IEC Locking Power Cord sample (for models with either C13 and/or C19 outlets) – Read me first card

Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) 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 Enterprise website. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
20-Jul-2026	Version 8	Changed	Service and Support Section was updated.
		Removed	Obsolete SKUs were deleted.
16-Feb-2026	Version 7	Changed	New branding applied to document
04-Dec-2023	Version 6	Changed	Service and Support Section was updated
04-Oct-2021	Version 5	Changed	Service and Support Section was updated
01-Oct-2018	Version 4	Changed	Models and Related Options were updated.
02-Jul-2018	Version 3	Changed	Models section was updated.
05-Mar-2018	Version 2	Changed	Related Options, Model Matrix sections were updated.
27-Mar-2017	Version 1	Added	New QuickSpecs.

Copyright

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