Shape the Future of QuickSpecs - Your Input Matters

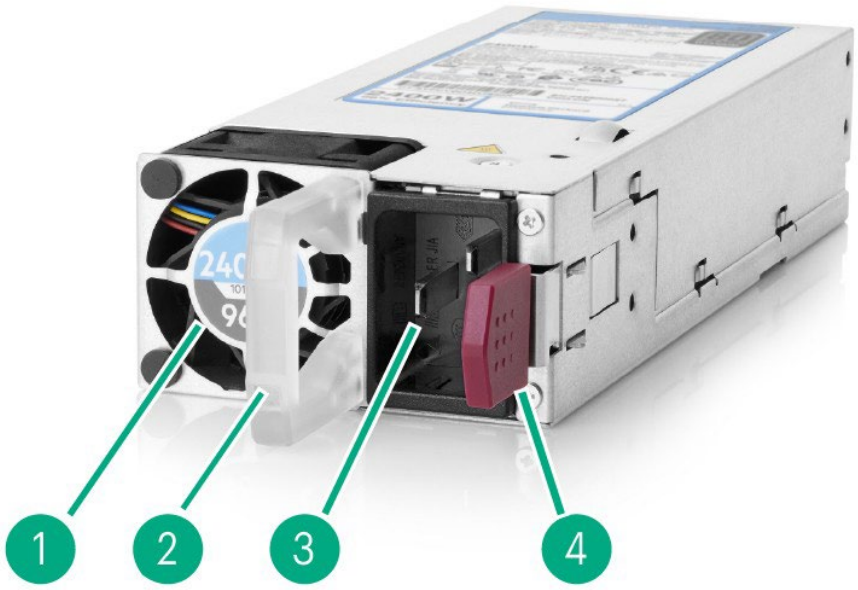
HPE Modular Common Redundant Power Supplies QuickSpecs

HPE Modular Common Redundant (M-CRPS) Power Supplies are newly designed to comply with Open Compute Project (OCP) specifications.

They feature new form factors, increased power output, and enhanced serviceability and manageability features.

Overview

HPE M-CRPS Power Supplies are Platinum-rated (94% efficient) and offer capacities up to 800W, or Titanium-rated (96% efficient) with capacities up to 3200W, allowing users to right-size the power supplies for their specific server configurations. This flexibility helps reduce power waste, lower overall energy costs, and avoid trapped power capacity in the data center.



HPE Modular Common Redundant Power Supplies

Item	Description	Item	Description
1.	Identification Label	3.	Input Connector (C20 shown)
2.	Power Supply Handle/Status Indicator	4.	Release Lever

What's New

- Expanding the HPE M-CRPS Compute Power Supply portfolio which consists of Platinum and Titanium rated Power Supplies, by adding a -48V DC Power Supply
- HPE 1300W M-CRPS -48VDC Hot Plug Power Supply Kit

Models

HPE Power Supplies

Modular Common Redundant Power Supplies

Notes:

- Mixing different power supplies on servers with multiple power domain, such as the HPE ProLiant Compute DL380a Gen12, is allowed, provided that all power supplies within a domain are identical.
- Mixing different power supplies within a server's power domain may limit or disable some power supply features, including support for power redundancy. To ensure access to all available features, all power supplies within the same power domain in a server should have the same output and efficiency ratings.
- Capable of low-line (100V – 127V) and high-line (200V – 240V) AC input.
- Power supply output is a result of input voltage.

HPE M-CRPS Titanium Power Supply Kits

Notes:

- M-CRPS Titanium power supplies deliver efficiencies of up to 96%.
- Compliant with EU Lot 9 2024 minimum efficiency requirements.

HPE 1000W M-CRPS Titanium Hot Plug Power Supply Kit P67240-B21

Notes:

- 60mm wide, C14 input connector.
- 1000W at 200V AC and higher, 800W at 100V to 120V AC.

HPE 1500W M-CRPS Titanium Hot Plug Power Supply Kit P67244-B21

Notes:

- 60mm wide, C14 input connector.
- 1500W at 200V AC and higher, 1000-1100W at 100V to 120V AC.

HPE 2400W M-CRPS Titanium Hot Plug Power Supply Kit P67252-B21

Notes:

- 73.5mm wide, C20 input connector.
- 2364W at 200V AC and higher, 1164W at 100V to 127V AC.

HPE 3200W M-CRPS Titanium Hot Plug Power Supply Kit P67248-B21

Notes:

- 73.5mm wide, C20 input connector.
- 2900W-3200W at 200V AC and higher, 1400W-1600W at 100V to 127V AC.

HPE M-CRPS Platinum Power Supply Kits

Notes:

- M-CRPS Platinum power supplies deliver efficiencies of up to 94%.
- Not compliant with EU Lot 9 2024 minimum efficiency requirements.

HPE 800W M-CRPS Platinum Hot Plug Power Supply Kit P73190-B21

Notes:

- 60mm wide, C14 input connector.
- 800W at 200V AC and higher, 650W at 100V to 120V AC

HPE M-CRPS -48VDC Power Supply Kits

Notes:

- M-CRPS -48VDC power supplies deliver efficiencies of up to 94%.
- Excluded from EU Lot 9 2024 minimum efficiency requirements scope.
- M-CRPS -48VDC power supplies may require separate purchase of power cords or lugs

HPE 1300W M-CRPS -48VDC Hot Plug Power Supply Kit	P82412-B21

Notes:

- Excluded from EU Lot 9 2024 minimum efficiency requirements scope.

Features/Benefits

Titanium-Certified Power Efficiency

- Titanium (96%) power efficiency certification from 80PLUS program – one of the highest power efficiency certifications available in the IT industry.
- Reduces data center operating costs related to power by reducing server power requirements and energy waste.

M-CRPS Design

- New form factor, compliant with Open Compute Project (OCP) base specification. Not compatible with servers prior to Gen12.
- Two widths: 73.5mm and 60mm.
- Enhanced serviceability through an enlarged handle that illuminates to indicate power supply status.
- Robust firmware security with advanced features to protect servers and enhance the end-user experience.
- Tool-less hot plug design improves serviceability by allowing quick and easy access to system power supplies.
- Common form factor across supported ProLiant Compute Gen12 servers allows multiple platforms to share power supply spares, reducing costs and space requirements for replacements.

Wide range of Power Output Options

- Multiple output options allowing users to right-size their power needs and avoid trapped power capacity in their data centers caused by over-subscribing power needs.
- Support for both low-line and high-line AC input voltages, providing additional flexibility to operate in multiple IT environments and geographical locations.

Power Management

- Supports multiple operating modes to maximize power efficiency when configuring servers with redundant power supplies.

80PLUS Certification

The 80PLUS test protocol was developed by Ecova Plug Load Solutions and the Electric Power Research Institute (EPRI) in 2003 and formally launched in 2004.

The 80PLUS performance specification requires power supplies in servers to be 80% or greater energy efficient at 20%, 50% and 100% of rated load with a true power factor of 0.9 or greater. This makes an 80PLUS certified power supply more efficient than typical power supplies found in many other electrical devices.

Who benefits from the 80PLUS power supply program?

- Commercial/Residential Consumers - empowered with information regarding energy efficient IT options that help them cut energy costs and reduce their environmental impact.
- Utility/Power Providers - participation in a program that focuses on reducing power demands on overburdened grids as well as reducing power waste and its associated environmental impact.

What are the efficiency requirements for each certification level?

80PLUS Certification	230V Internal		
% of Rated Load	**20%**	**50%**	**100%**
80PLUS Bronze	81%	85%	81%
80PLUS Silver	85%	89%	85%
80PLUS Gold	88%	92%	88%
80PLUS Platinum	90%	94%	91%
80PLUS Titanium	94%	96%	91%

What level of certification does HPE Modular Common Redundant Power Supplies meet?

HPE's Platinum power supply options meet 80PLUS requirements for Platinum certification. HPE's Titanium power supply options meet 80PLUS requirements for Titanium certification. To review 80PLUS certification reports for each HPE M-CRPS Power Supply, please refer to the 80PLUS website at: https://www.plugloadsolutions.com/.

European Union ErP Lot 9 Regulation

Beginning on January 1st, 2024, units sold into the European Economic Area (EEA), the United Kingdom, Switzerland or Turkey must include more efficient AC power supplies: 96% for single output type. HPE Modular Common Redundant Power Supplies are single-output, and are 96% efficient, thus meeting requirements.

Support for Redundant Power Supplies

A power domain configured with identical M-CRPS Power Supplies on an HPE ProLiant server solution supports the following three scenarios:

- Operation with N-1 power supplies.
- Operation with redundant power supplies in load-balanced mode.
- Operation with redundant power supplies in high-efficiency mode.

For redundant M-CRPS Power Supplies operating in load-balanced mode (the default mode when adding redundant power supplies), the load on a domain is shared equally between the power supplies.

When high-efficiency mode is enabled for redundant supplies (via the server's ROM-based setup utility under System Options -> Redundancy Options), power supplies within a server domain are designated as either primary or secondary, and the entire server load is shifted to the primary power supplies. This allows the primary power supplies to operate at higher efficiency points on the load curve while the secondary power supplies operate in idle mode, providing no output power and consuming little energy. The user can also specify that odd or even power supplies are designated manually or automatically as secondary supplies. This flexibility allows users to balance the load across a rack manually or automatically.

Compatibility

HPE M-CRPS power supplies are compatible with the following HPE ProLiant Compute families:

- HPE ProLiant Compute DL320 Gen12
- HPE ProLiant Compute DL325 Gen12
- HPE ProLiant Compute DL345 Gen12
- HPE ProLiant Compute DL340 Gen12
- HPE ProLiant Compute DL380a Gen12
- HPE ProLiant Compute DL580 Gen12
- HPE ProLiant Compute XD230

Notes: To check for power supply compatibility, please review the appropriate HPE Server QuickSpecs at http://www.hpe.com/info/qs.

HPE Services

No matter where you are on your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where, and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.
https://www.hpe.com/services

Consulting Services

No matter where you are on your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.
https://www.hpe.com/services/consulting

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HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.
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Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.
https://www.hpe.com/services/operational

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach – edge to cloud.
- An assigned HPE team.
- Modular and fully personalized engagement.
- Enhanced Incident Management experience with priority access.
- Digitally enabled and AI-driven customer experience.

https://www.hpe.com/services/completecare

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI-driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI-driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available on three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential, which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical, which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.
https://www.hpe.com/services/techcare

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, considering the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, considering the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the HPE Service Credits Menu

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Other Related Services from HPE Services

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and service options.

Parts and Materials

HPE 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.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at https://ssc.hpe.com/portal/site/ssc/

AI Powered and Digitally Enabled Support Experience

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https://support.hpe.com/hpesc/public/home/signin

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market.
- Save on TCO, align costs to business.
- Scale quickly, meet unpredictable demand.
- Simplify IT operations across your data centers and clouds.

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE" https://www.hpe.com/us/en/contact-hpe.html
For more information, visit http://www.hpe.com/services

Related Options

C13 – C14 Jumper Cords

Notes:

- Cables listed below are to be used exclusively with the 800W, 1000W and 1500W power supplies (P73190-B21, P67240-B21, and P67244-B21).
- Worldwide use except India, unless otherwise noted.

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 IN 250V 10Amp 2m Black Jumper Cord	R1C65A

Notes: For India use only.

C13 Country-Specific Jumper Cords

Notes: Cables listed below are to be used exclusively with the 800W, 1000W and 1500W power supplies (P73190-B21, P67240-B21, and P67244-B21).

HPE C13 - JIS C8303 JP 100V 12Amp 2.0m Power Cord	AF572A
HPE C13 - AS3112-3 AU 250V 10Amp 2.5m Power Cord	AF569A
HPE C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
HPE C13-NEMA 6-15P 10A/250V 3.6m Black Power Cord	A0N33A
HPE C13 - GB-1002 CN 250V 10Amp 1.83m Power Cord	AF557A
HPE C13 - CNS-690 TW 110V 13Amp 1.83m Power Cord	AF561A
HPE C13 - IRAM -2073 AR 250V 10A 2.5m Power Cord	AF558A
HPE C13 - NBR-14136 BR 250V 10Amp 1.83m Power Cord	AF591A
HPE C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
HPE C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A
HPE C13 - SI-32 IL 250V 10Amp 1.83m Power Cord	AF564A
HPE C13 - KSC- 8305 KR 250V 10Amp 1.83m Power Cord	AF560A
HPE C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
HPE C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
HPE C13 - Nema 5-15P TH/PH 250V 10Amp 1.83m Power Cord	AF559A
HPE C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A
HPE C13 - IS-1293 IN 240V 6Amp LV 2.0m Power Cord	AF562A

Notes: For India use only.

Visit HPE Power Cords and Cables for details of optional power cords

Related Options

C19 – C20 Jumper Cords

Notes:

- Cables listed below are to be used exclusively with the 2400W and 3200W power supplies (P67252-B21 and P67248-B21).
- Worldwide use except India, unless otherwise noted.

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 IN 250V 16Amp 2.5m Black Jumper Cord	R1C66A

Notes: For India use only.

C19 Country-Specific Jumper Cords

Notes: Cables listed below are to be used exclusively with the 2400W and 3200W power supplies (P67252-B21 and P67248-B21).

HPE C19 - Nema L6-20P NA/JP 250V 20Amp High Voltage 3.6m Power Cord	AF593A
HPE C19 - CEE-VII EU 250V 16Amp 3.6m Power Cord	AF576A
HPE C19 - IEC-309 DK/SE/AR 250V 16Amp 3.6m Power Cord	AF581A

Notes: For India use only.

Visit HPE Power Cords and Cables for details of optional power cords

-48VDC Power Cables and Lugs

HPE Hardwire -48VDC 3.5m 1000-1300W Power Cord	P79842-B21
HPE 1000-1300W -48VDC Power Lug Kit	P79845-B21

Notes:

- P79842-B21 and P79845-B21 are to be used with HPE 1300W M-CRPS -48VDC Hot Plug Power Supply Kit
- Only one power cable kit or power cable lug kit needs to be selected with the power supply

HPE 1000W M-CRPS Titanium Hot Plug Power Supply (P67240-B21)	HPE's Generic Part Number						P67242-001
	HPE 1000W M-CRPS Titanium Hot Plug Power Supply Kit						P67240-B21
	SPS-PS,1U,1000W,12V,HTPLG,HE-P						P68455-001
Input connector	C14						
Input Voltage Range (V rms)	100-240						
Frequency Range (Nominal) (Hz)	50-60						
Nominal Input Voltage (V rms)	100	110	120	200	208	230	240
Maximum Rated Output Wattage Rating (Watts)	800	800	800	1000	1000	1000	1000
Nominal Input Current (A rms)	9.0	8.1	7.4	5.4	5.2	4.7	4.5
Maximum Rated Input Wattage Rating (Watts)	892	884	878	1078	1077	1074	1073
Maximum Rated VA (Volt-Amp)	901	893	887	1089	1088	1085	1084
Efficiency (%)	89.7	90.5	91.2	92.7	92.9	93.1	93.2
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	0.33	0.36	0.40	0.66	0.69	0.76	0.80
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current duration (mS)	10						
Maximum British Thermal Unit Rating (BTU-Hr)	3044	3016	2995	3680	3675	3666	3662

HPE 1500W M-CRPS Titanium Hot Plug Power Supply (P67244-B21)	HPE's Generic Part Number						P67246-001
	HPE 1500W M-CRPS Titanium Hot Plug Power Supply Kit						P67244-B21
	SPS-PS,1U,1500W,12V,HTPLG,HE-P						P68456-001
Input connector	C14						
Input Voltage Range (V rms)	100-240						
Frequency Range (Nominal) (Hz)	50-60						
Nominal Input Voltage (V rms)	100	110	120	200	208	230	240
Maximum Rated Output Wattage Rating (Watts)	1000	1100	1100	1500	1500	1500	1500
Nominal Input Current (A rms)	11.2	11.2	10.2	8.2	7.9	7.1	6.8
Maximum Rated Input Wattage Rating (Watts)	1111	1220	1212	1630	1628	1624	1622
Maximum Rated VA (Volt-Amp)	1123	1233	1225	1646	1644	1640	1638
Efficiency (%)	90.0	90.1	90.7	92.1	92.2	92.4	92.5
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	0.33	0.36	0.40	0.66	0.69	0.76	0.80
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current duration (mS)	10						
Maximum British Thermal Unit Rating (BTU-Hr)	3792	4164	4137	5560	5554	5539	5534

HPE 2400W M-CRPS Titanium Hot Plug Power Supply (P67252-B21)	HPE's Generic Part Number HPE 2400W M-CRPS Titanium Hot Plug Power Supply Kit SPS-PS, 1U, 2400W, 12V, HTPLG, HE-P							P67254-001 P67252-B21 P68454-001
Input connector	C20							
Input Voltage Range (V rms)	100-240							
Frequency Range (Nominal) (Hz)	50-60							DC
Nominal Input Voltage (V rms)	100	120	127	200	208	230	240	240
Maximum Rated Output Wattage Rating (Watts)	1200	1200	1200	2400	2400	2400	2400	2400
Nominal Input Current (A rms)	13.0	10.8	10.1	12.9	12.4	11.2	10.7	10.7
Maximum Rated Input Wattage Rating (Watts)	1290	1279	1275	2551	2549	2541	2539	2541
Maximum Rated VA (Volt-Amp)	1303	1292	1288	2577	2574	2567	2564	2567
Efficiency (%)	93.0	93.9	94.1	94.1	94.2	94.4	94.5	94.4
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	0.33	0.40	0.42	0.66	0.69	0.76	0.80	0.80
Maximum Inrush Current (A peak)	30							
Maximum Inrush Current duration (ms)	10							
Maximum British Thermal Unit Rating (BTU-Hr)	4403	4364	4349	8705	8696	8671	8662	8672

HPE 3200W M-CRPS Titanium Hot Plug Power Supply (P67248-B21)	HPE's Generic Part Number						P67250-001
	HPE 3200W M-CRPS Titanium Hot Plug Power Supply Kit						P67248-B21
	SPS-PS,1U,3200W,12V,HTPLG,HE-P						P68453-001
Input connector	C20						
Input Voltage Range (V rms)	100-240						
Frequency Range (Nominal) (Hz)	50-60						
Nominal Input Voltage (V rms)	100	120	127	200	208	230	240
Maximum Rated Output Wattage Rating (Watts)	1400	1600	1600	2900	3000	3200	3200
Nominal Input Current (A rms)	15.2	14.5	13.7	15.7	15.6	15.1	14.4
Maximum Rated Input Wattage Rating (Watts)	1504	1727	1723	3100	3207	3433	3429
Maximum Rated VA (Volt-Amp)	1519	1745	1740	3131	3239	3468	3464
Efficiency (%)	93.1	92.6	92.9	93.5	93.6	93.2	93.3
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	0.33	0.40	0.42	0.66	0.69	0.76	0.80
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current duration (mS)	10						
Maximum British Thermal Unit Rating (BTU-Hr)	5132	5894	5878	10577	10941	11713	11699

Technical Specifications

HPE 800W M-CRPS Platinum Hot Plug Power Supply (P73190-B21)	HPE's Generic Part Number							P73192-001
	HPE 800W M-CRPS Platinum Hot Plug Power Supply Kit							P73190-B21
	SPS-PS,1U,800W,12V,HTPLG,HE-P							P77518-001
Input connector	C14							
Input Voltage Range (V rms)	100-240							
Frequency Range (Nominal) (Hz)	50-60							
Nominal Input Voltage (V rms)	100	110	120	200	208	230	240	240
Maximum Rated Output Wattage Rating (Watts)	650	650	650	800	800	800	800	800
Nominal Input Current (A rms)	7.3	6.6	6.0	4.3	4.2	3.8	3.6	3.6
Maximum Rated Input Wattage Rating (Watts)	720	715	710	860	859	856	855	856
Maximum Rated VA (Volt-Amp)	728	722	717	868	867	865	864	865
Efficiency (%)	90.2	91.0	91.5	93.1	93.2	93.4	93.5	93.4
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	0.33	0.36	0.40	0.66	0.69	0.76	0.80	0.80
Maximum Inrush Current (A peak)	30							
Maximum Inrush Current duration (mS)	10							
Maximum British Thermal Unit Rating (BTU-Hr)	2458	2438	2423	2933	2930	2922	2919	2922

Technical Specifications

HPE 1300W M-CRPS -48VDC Hot Plug Power Supply (P82412-B21)	HPE Generic Part Number		P82414-001
	HPE 1300W M-CRPS -48VDC Hot Plug Power Supply Kit		P82412-B21
	SPS-PS,1U, 1300W, -48VDC,HTPLG,HE-P		P84329-001
Input Voltage Range (V rms)	40 - 72		
Frequency Range (Nominal) (Hz)	DC		
Nominal Input Voltage (V rms)	40	48	72
Maximum Rated Output Wattage Rating (Watts)	1300	1300	1300
Nominal Input Current (A rms)	36.5	30.2	19.9
Maximum Rated Input Wattage Rating (Watts)	1447	1435	1417
Maximum Rated VA (Volt-Amp)	1461	1449	1432
Efficiency (%)	89.9	90.6	91.7
Power Factor	0.99	0.99	0.99
Leakage Current (mA)	Not applicable for DC model		
Maximum Inrush Current (A peak)	55.50		
Maximum Inrush Current duration (mS)	10		
Maximum British Thermal Unit Rating (BTU-Hr)	4936	4895	4836

Technical Specifications

All AC Power Supplies	
Operating Temperature	41° to 131°F (5° to 55°C)
Operating Relative Humidity (%)	5% to 95%, non-condensing
Operating Elevation	The maximum ambient temperature of the power supply shall have an altitude de-rating, from sea level, of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft).
Storage Temperature	-40° to 185°F (-40 to 85°C)
Storage Relative Humidity (%)	5% to 95%, non-condensing
Storage Elevation	0 to 50,000ft (0 to 15,240m)
Input Voltage	Low Line - Rated: 100V - 127V; Min 90V to Max 132V High Line - Rated: 200 - 240V; Min 180V to Max 264V 240VDC Support - Rated 240VDC; Min 192VDC to Max 310VDC (models P73190-B21, P67240-B21, P67244-B21, P67252-B21, and P67248-B21 only)
Input Frequency	Rated: 50 - 60Hz; Min 47Hz to Max 63Hz
FCC EMI Certification	CE Mark, UL, cUL, IEC, EN, KCC, BSMI, CCC, TUV, C-tick, CISPR Class A
Mechanical Dimensions (WxHxD)	– 800W PSU (P73190-B21): 2.36 x 1.57 x 7.28 in (60 x 40 x 185 mm) – 1000W PSU (P67240-B21): 2.36 x 1.57 x 7.28 in (60 x 40 x 185 mm) – 1500W PSU (P67244-B21): 2.36 x 1.57 x 7.28 in (60 x 40 x 185 mm) – 2400W PSU (P67252-B21): 2.89 x 1.57 x 7.28 in (73.5 x 40 x 185 mm) – 3200W PSU (P67248-B21): 2.89 x 1.57 x 7.28 in (73.5 x 40 x 185 mm)
Unit Weight	– 800W PSU (P73190-B21): 1.64 lbs. (0.75 kg) – 1000W PSU (P67240-B21): 1.64 lbs. (0.75 kg) – 1500W PSU (P67244-B21): 1.64 lbs. (0.75 kg) – 2400W PSU (P67252-B21): 2.34 lbs. (1.06 kg) – 3200W PSU (P67248-B21): 2.34 lbs. (1.06 kg)
Shipping Dimensions (WxHxD)	14.75 x 7.5 x 5.75 in (37.47 x 19.05 x 14.61 cm)
Shipping Weight	– 800W PSU (P73190-B21): 3.14 lbs. (1.43 kg) – 1000W PSU (P67240-B21): 3.14 lbs. (1.43 kg) – 1500W PSU (P67244-B21): 3.14 lbs. (1.43 kg) – 2400W PSU (P67252-B21): 3.84 lbs. (1.75 kg) – 3200W PSU (P67248-B21): 3.84 lbs. (1.75 kg)
Kit Contents	Ships with (1) Power supply unit, (1) IEC jumper cable: IEC C13-C14 on P73190-B21, P67240-B21, and P67244-B21, IEC C19-C20 on P67248-B21 and P67252-B21, and installation/safety guide
Power Supply Hold-Up time in the event of AC loss	
Condition: 100% rated output power (Time in Milliseconds – Minimum)	Non-Redundant (1+0) – 10ms
	Redundant (1+1) – 20ms
Condition: 50% rated output power (Time in Milliseconds – Minimum)	Non-Redundant (1+0) – 20ms
	Redundant (1+1) – 30ms

All DC Power Supplies	
Operating Temperature	41° to 131°F (5° to 55°C)
Operating Relative Humidity (%)	5% to 95%, non-condensing
Operating Elevation	0 to 5,000ft (1,524m) with no derating; The maximum ambient temperature of the power supply shall have an altitude derating from sea level, of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft).
Storage Temperature	-40° to 185°F (-40 to 85°C)
Storage Relative Humidity (%)	5% to 95%, non-condensing
Storage Elevation	0 to 50,000ft (0 to 15,240m)
Input Voltage	48VDC to 54VDC (nominal); Min 40VDC to Max 72VDC (model P82412-B21 only)
Input Frequency	DC input
Conformance Standards	CE Mark, UL, CSA, IEC, EN, CNS, KC, CCC, C-tick, TUV, CISPR Class A
Mechanical Dimensions (WxHxD)	– 1.58 x 2.67 x 7.20 in (4.03 x 6.80 x 18.29 cm)
Unit Weight	– 2.5 lb (1.13 kg)
Shipping Dimensions (WxHxD)	14.87 x 7.25 x 5.63 in (37.77 x 18.42 x 14.30 cm)
Shipping Weight	– 3.5 lb (1.59 kg) (for model P82412-B21 only)
Kit Contents	Models P82412-B21 ship with: (1) Power supply unit, installation/safety guide

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 responsibly.

The EU Waste from Electrical and Electronic Equipment (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 web site. 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
02-Feb-2026	Version 8	Changed	Overview, Related Options and Technical Specifications sections were updated.
		Added	HPE M-CRPS -48VDC Power Supply Kits SKU and rules.
		Removed	C19 Country-Specific Jumper Cords obsolete SKU.
08-Dec-2025	Version 7	Changed	Technical Specifications section was updated.
		Added	Power Supply matrices.
06-Oct-2025	Version 6	Changed	Standard Features and Technical Specifications sections were updated. Imagery and AC Power Supplies specifications tables were updated.
28-Jul-2025	Version 5	Changed	Survey link was updated.
23-Jun-2025	Version 4	Changed	Input Voltage on Specified models (Page 12)
		Removed	Obsolete SKU AF582A
10-Mar-2025	Version 3	Changed	What's new, Compatibility, and Technical Specifications were revised.
24-Feb-2025	Version 2	Changed	Added new Power Supply Kits: 1000W and 3200W Overview, Models, Standard Features, Compatibility, Related Options and Technical Specifications were revised.
04-Nov-2024	Version 1	Created	New QuickSpecs

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