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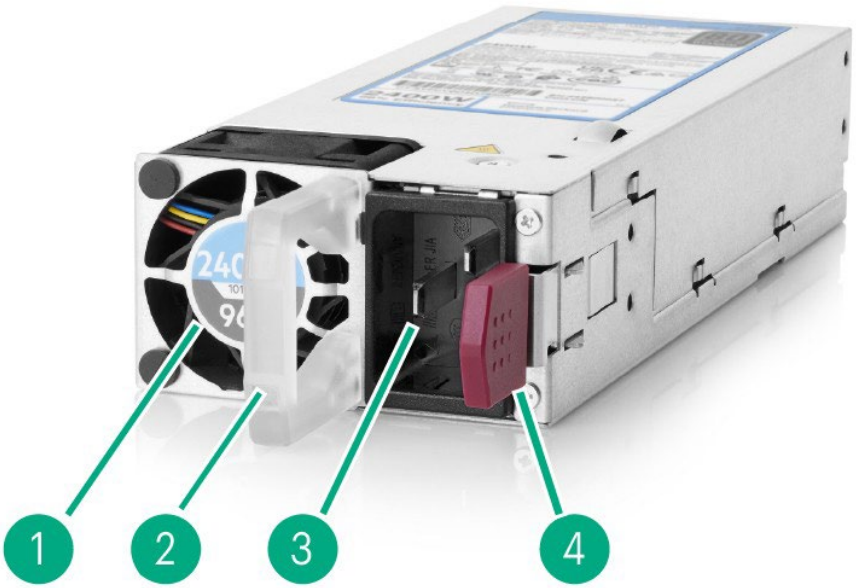
HPE Modular Common Redundant Power Supplies QuickSpecs

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 277VAC/380VDC Power Supply
- HPE 2800W M-CRPS 277VAC Titanium 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.
- 2400W at 200V AC and higher, 1200W 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 HVAC/HVDC Power Supply Kits

Notes:

- M-CRPS HVAC/HVDC power supplies deliver efficiencies of up to 96%.
- Excluded from EU Lot 9 2024 minimum efficiency requirements scope.

HPE 2800W M-CRPS 277VAC Titanium Hot Plug Power Supply Kit	P78196-B21

Notes:

- 73.5mm wide, SAFDGRID connection
- Specialized PSU, focused on High Voltages supporting AC ranges from 200V to 277V and DC ranges from 240V to 420V

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.

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

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
- 8 AWG supported power cord and lug

HPE Hardwire -48VDC 3.5m 2000-2200W Power Cord	P73874-B21
HPE 2000-2200W -48VDC Power Lug Kit	P79839-B21

Notes:

- P73874-B21 and P79839-B21 are to be used with HPE 2200W 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
- 6 AWG supported power cord and lug

HPE SAFDGRID-SAFDGRID 277V 15Amp DC 2.0m Jumper Cord	J6X00A
HPE Cray XD670 SDG-400 - SDG-300 300V 1m Power Cord	S4X23A

Notes:

These cables are used only with the 277VAC/380VDC M-CRPS Power supply (P78196-B21) and are only supported by this power supply.

Technical Specifications

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

Technical Specifications

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

Technical Specifications

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

Technical Specifications

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 2800W M-CRPS 277VAC Titanium Hot Plug Power Supply Kit (P78196-B21)	HPE's Generic Part Number					P78198-001
	HPE 2800W M-CRPS 277VAC Titanium Hot Plug Power Supply Kit					P78196-B21
	SPS-PS,1U, 277VAC, 2700W,12V HTPLG					P80650-001
Input Voltage Range (V rms)	200 - 277					240 - 420
Frequency Range (Nominal) (Hz)	50 - 60					DC
Nominal Input Voltage (V rms)	200	208	230	240	277	380
Maximum Rated Output Wattage Rating (Watts)	2700	2800	2800	2800	2800	2800
Nominal Input Current (A rms)	14.6	14.6	13.2	12.6	10.9	7.9
Maximum Rated Input Wattage Rating (Watts)	2881	3004	2995	2992	2982	2965
Maximum Rated VA (Volt-Amp)	2910	3034	3026	3022	3012	2995
Efficiency (%)	93.7	93.2	93.5	93.6	93.9	94.4
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99
Leakage Current (mA)	1.15	1.19	1.32	1.38	1.59	2.18
Maximum Inrush Current (A peak)	30					
Maximum Inrush Current duration (mS)	10					
Maximum British Thermal Unit Rating (BTU-Hr)	9830	10250	10220	10208	10176	10116

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

HPE 2200W M-CRPS -48VDC Hot Plug Power Supply (P73210-B21)	HPE Generic Part Number		P73212-001
	HPE 2200W M-CRPS -48VDC Hot Plug Power Supply Kit		P73210-B21
	SPS-PS,1U, 2200W, -48VDC,HTPLG,HE-P		P77519-001
Input Voltage (V rms)	40 - 72		
Frequency Range (Nominal) (Hz)	DC		
Nominal Input Voltage (V rms)	40	48	72
Maximum Rated Output Wattage Rating (Watts)	2200	2200	2200
Nominal Input Current (A rms)	61.1	50.3	33.1
Maximum Rated Input Wattage Rating (Watts)	2420	2393	2360
Maximum Rated VA (Volt-Amp)	2445	2417	2384
Efficiency (%)	90.9	92.0	93.2
Power Factor	0.99	0.99	0.99
Leakage Current (mA)	Not applicable for DC model		
Maximum Inrush Current (A peak)	30		
Maximum Inrush Current duration (mS)	10		
Maximum British Thermal Unit Rating (BTU-Hr)	8258	8163	8052

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 High Line - Rated: 200 - 277VAC 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) – 2800W PSU (P78196-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) – 2800W PSU (P78196-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) – 2800W PSU (P78196-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 and P73210-B21 only); 380VDC (model P78196-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)	– 1300W PSU (P82412-B21): 2.36 x 1.57 x 7.28 in (60 x 40 x 185 mm) – 2200W PSU (P73210-B21): 2.89 x 1.57 x 7.28 in (73.5 x 40 x 185 mm) 2800W PSU (P78196-B21): 2.89 x 1.57 x 7.28 in (73.5 x 40 x 185 mm)
Unit Weight	– 1300W PSU (P82412-B21): 1.64 lbs. (0.75 kg) – 2200W PSU (P73210-B21): 2.34 lbs. (1.06 kg) – 2800W PSU (P78196-B21): 2.34 lbs. (1.06 kg)
Shipping Dimensions (WxHxD)	– 1300W PSU (P82412-B21): 3.14 lbs. (1.43 kg) – 2200W PSU (P73210-B21): 3.84 lbs. (1.75 kg) – 2800W PSU (P78196-B21): 3.84 lbs. (1.75 kg)
Shipping Weight	– 1300W PSU (P82412-B21): 3.14 lbs. (1.43 kg) – 2200W PSU (P73210-B21): 3.84 lbs. (1.75 kg) – 2800W PSU (P78196-B21): 3.84 lbs. (1.75 kg)
Kit Contents	Models P78196-B21, P82412-B21, and P73210-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
04-May-2026	Version 10	Changed	Technical Specifications section was updated.
02-Mar-2026	Version 9	Changed	Service and Support and Technical Specifications sections were updated.
		Added	Updated GreenLake statement. HPE 2200W M-CRPS -48VDC Hot Plug Power Supply (P73210-B21) and All AC Power Supplies specifications.
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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