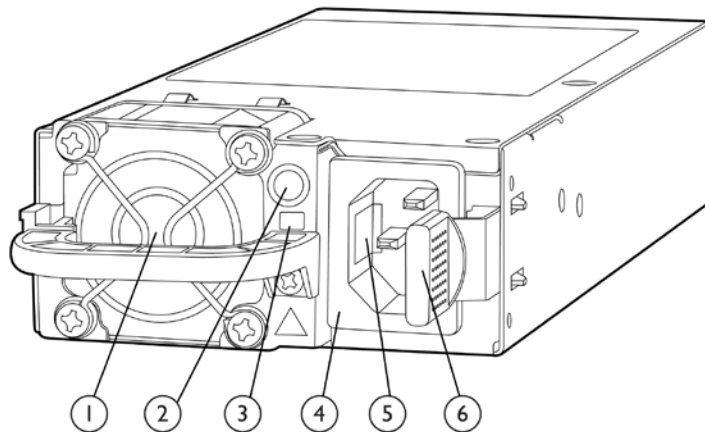


Overview

HPE Common Slot Power Supplies

HPE Common Slot (CS) Power Supplies share a common electrical and physical design that allows for hot-swap, tool-less installation into HPE server and storage solutions. The Hewlett Packard Enterprise CS power supplies offer high-efficiency power options available in multiple input and output options, allowing users to "right-size" a power supply for specific server/storage configurations and environments. This flexibility helps to minimize power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

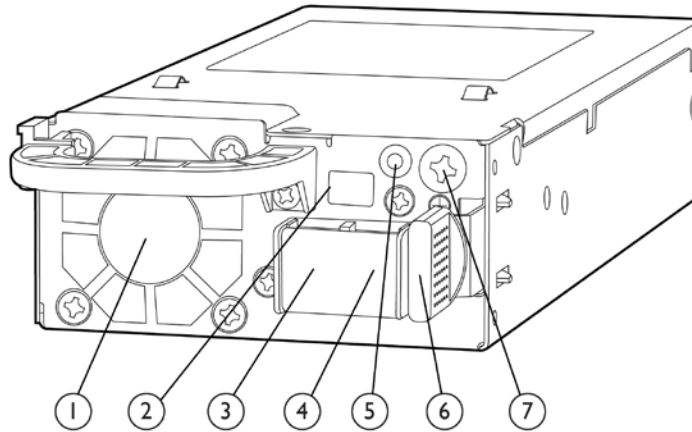
High efficiency options rated for up to 94% (Platinum/Platinum Plus) and up to 96% (Titanium) power efficiency are available in the Common Slot form factor. Most options also support HPE Power Discovery Services via embedded power line communication (PLC) technology. This feature enables each server to communicate identification, location, and power-related data to the Intelligent Power Distribution Unit in the rack which can then be shared with HPE Insight Control to manage power usage and efficiency in the data center.



HPE Common Slot Platinum Plus Power Supplies

- | | |
|--------------------------------------|---|
| 1. Power Supply Identification Label | 4. Blue C-13 Power Connector (indicates support for HPE Power Discovery Services) |
| 2. Power LED | 5. Power Line Communication Port (requires PLC power cable for use) |
| 3. Front-Side Revision Control Label | 6. Quick-Release Lever |

Overview



HPE 750W Common Slot -48VDC Power Supply

- | | |
|--------------------------------------|------------------------------|
| 1. Power Supply Identification Label | 5. Power LED |
| 2. Front-Side Revision Control Label | 6. Quick-Release Lever |
| 3. Power Input Connector | 7. Power Grounding Connector |
| 4. Power Return Connector | |

What's New

- New 1500W -48VDC 94% efficient Common Slot power supply options with Phoenix connectors (no support for HPE Power Discovery Services).

Models

HPE Power Supplies

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted you will get errors and operation will fail.

HPE Common Slot Titanium Power Supply Kits

NOTE: Up to 96% efficiency with support for HPE Power Discovery Services (blue plug).

HP 750W Common Slot Titanium Hot Plug Power Supply Kit

697581-B21

HPE Common Slot Platinum Plus Power Supply Kits

NOTE: Up to 94% efficiency with support for HPE Power Discovery Services (blue plug).

HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit

656362-B21

HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit

656363-B21

HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit

656364-B21

HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit

684532-B21

HPE Common Slot Platinum Power Supplies

NOTE: Up to 94% efficiency with no support for HPE Power Discovery Services (black plug).

HP 460W Common Slot Platinum Hot Plug Power Supply Kit

739252-B21

HP 750W Common Slot Platinum Hot Plug Power Supply Kit

739254-B21

HP 1200W Common Slot Platinum Hot Plug Power Supply Kit

748287-B21

HPE Common Slot Platinum Power Supplies

NOTE: Up to 94% efficiency with support for HPE Power Discovery Services (blue plug).

Overview

HP 1200W Common Slot Platinum Hot Plug Power Supply Kit 578322-B21

HPE Common Slot Gold Power Supplies

NOTE: Up to 92% efficiency.

HP 460W CS Gold Ht Plg Power Supply Kit 503296-B21

HP 750W Common Slot Gold Hot Plug Power Supply Kit 512327-B21

HPE Common Slot Silver Power Supplies

NOTE: Up to 89% efficiency

HP 1200W Common Slot Silver Hot Plug Power Supply Kit 500172-B21

HPE Common Slot -48VDC Power Supplies

HPE 1500W Common Slot -48VDC Hot Plug Power Supply Kit 746708-B21

HP 750W Common Slot -48VDC Hot Plug Power Supply Kit 636673-B21

NOTE: The 750W Common Slot -48VDC Hot Plug Power Supply Kit does not include a power cord. To select an appropriate power cord for your server, please review the "Related Options" section of this document.

HPE Common Slot 277VAC Power Supplies

NOTE: Up to 94% efficiency.

HP 500W Common Slot 277VAC Hot Plug Power Supply Kit 717362-B21

HP 750W Common Slot 277VAC Hot Plug Power Supply Kit 717364-B21

HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit 717359-B21

NOTE: The HPE Common Slot 277VAC Hot Plug Power Supply Kits do not include a power cord. To select an appropriate power cord for your server, please review the "Related Options" section of this document.

HPE Common Slot 380VDC Power Supplies

NOTE: Up to 94% efficiency.

HP 1200W Common Slot 380VDC Hot Plug Power Supply Kit 684539-B21

NOTE: The 1200W Common Slot 380VDC Hot Plug Power Supply Kit does not include a power cord. To select an appropriate power cord for your server, please review the "Related Options" section of this document.

Standard Features

Common Slot Features and Benefits

Common Slot Design

- Tool-less hot-swap design allows for quick and easy access to power supplies
- Wide range of compatibility across HPE server and storage solutions minimizes the cost and management effort to maintain different sets of power supply spares

Multiple Output and Input 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
- Both AC and DC power input options available providing flexibility to operate in different IT environments
- Most Common Slot AC power supply options support both low-line and high-line voltage inputs providing additional flexibility to operate in multiple IT environments

Power Management for Redundant Power Configurations

- Supports multiple operating modes to maximize power efficiency when configuring servers and storage with redundant power supplies
- Load-Balancing mode designed to maximize power efficiency at higher power supply utilization loads
- High-Efficiency mode designed to maximize power efficiency at lower power supply utilization loads

Titanium and Platinum/Platinum Plus Features and Benefits

Highest Rated Power Efficiency

- Titanium (96%) and Platinum (94%) power efficiency certification from 80Plus program - highest certifications available in the IT industry
- Minimize data center operating costs related to power by reducing power waste and requirements for HPE server and storage solutions

Supports the Hewlett Packard Enterprise Power Discovery Services (on most options)

- Creates energy-aware network through embedded power line communication feature in Platinum power options
- Communicates power-related data to both iPDU and HPE Insight Manager
- Reduces human error, reclaims over-provisioned power capacity, and accurately measures/monitors power usage

80Plus Certification

The 80PLUS test protocol was developed jointly by Ecos Plug Load Solutions and the Electric Power Research Institute (EPRI) in 2003, with the program being formally launched in 2004.

The 80 PLUS 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 80 PLUS certified power supply substantially more efficient than typical power supplies found in many

Standard Features

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?

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

*The 80 PLUS Titanium specification also requires a minimum of 90% efficiency at 10% utilization.

What level of certification do HPE Common Slot (CS) Power Supplies meet?

Hewlett Packard Enterprise offers a range of CS Power Supplies that meet various 80PLUS levels of certification, from Silver to Titanium. The Hewlett Packard Enterprise Platinum Plus power supply options meet 80PLUS requirements for Platinum certification. To review 80Plus certification reports for each HPE Common Slot Power Supply, please refer to the 80Plus website at:

<http://www.80plus.org/>.

NOTE: Only AC CS Power Supplies operating at between 90V to 264V are tested/certified by the 80PLUS program; 277VAC, 48VDC, and 380VDC power supplies are tested by Hewlett Packard Enterprise for efficiency ratings.

Enabling Power Discovery Services

HPE Power Discovery Services (PDS) combines the HPE Intelligent Power Distribution Unit (iPDU) and HPE Common Slot Platinum/Platinum Plus power supplies with HPE Insight Control software to create an automated, energy-aware network between IT systems and facilities.

HPE Power Discovery Services Features and Benefits :

- Captures highly accurate power data across racks and rows of servers in order to identify and eliminate areas of waste
- Extends the life of the data center by reclaiming up to 3x energy capacity of the data center
- Ensures uptime by eliminating human error during power planning and provisioning

Which HPE Power Supplies Support IPD?

- HPE Common Slot Platinum Plus Power Supplies (including 460W, 750W, 1200W , and 1500W options)

Standard Features

- HPE Common Slot Platinum Power Supplies (including 460W, 750W, and 1200W options)

How Is PDS enabled by the Common Slot Platinum/Platinum Plus Power Supply?

HPE Common Slot Platinum and Platinum Plus Power Supplies include an embedded power line communication (PLC) feature that allows the power supply to communicate server data (such as server name, UUID, and IP address) to an HPE Intelligent Power Distribution Unit (iPDU). This feature is supported on most HPE ProLiant G6 and G7 servers that support HPE Common Slot Platinum power supplies, as well as on new HPE ProLiant Generation 8 servers supporting HPE Common Slot Titanium and Platinum Plus Power Supply options.

NOTE: Standard power cables and jumpers do not support Power Line Communications or Intelligent Power Discovery. Please refer to the HPE iPDU Data Sheet for more information on power cord options and part numbers at:

http://h18004.www1.hp.com/products/QuickSpecs/DS_00193/DS_00193.pdf

To learn more on HPE Intelligent Power Discovery, please visit the IPD website at:

<http://www.hp.com/go/ipd>

Support for Redundant Power Supplies

An HPE ProLiant server configured with an HPE Common Slot VAC Power Supply (460W, 750W, 1200W, or 1500W) supports the following three power scenarios:

- Operating with a single supply
- Operating with redundant supplies in load-balanced mode
- Operating with redundant supplies in high-efficiency mode

A single Common Slot Power Supply supporting the entire load of the server can achieve the highest efficiency when operating in the middle range (50%) of its capacity.

For redundant Common Slot Power Supplies operating in load-balanced mode (the default mode when adding redundant power supplies), the load is shared equally between the two (or four) power supplies. In general, the load-balanced mode offers better efficiency for loads requiring more than 60 percent of the primary power supply capacity.

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

NOTE: HPE Common Slot VDC Power Supply options support load-balancing when configured with redundant power supplies. However, neither model supports high-efficiency mode.

Compatibility

HPE Common Slot (CS) power supplies are compatible with a wide range HPE server and storage solutions. To check for CS power supply compatibility with specific HPE ProLiant servers, use the HPE ProLiant Options Compatibility Guide located at: <http://www.hpproliantoptions.com/>. For compatibility with specific HPE Integrity servers and HPE Storage solutions, please review the appropriate QuickSpecs for that product.

Service and Support

Service and Support **NOTE:** HPE Common Slot power supplies are supported as a part of the HPE Server Infrastructure. No separate care packs are needed to be purchased.

HPE Technology Services for Industry Standard Servers

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HPE Care Pack Services

HPE Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

HPE Support Center Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more <http://www.hp.com/go/hpsc>

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 Hewlett Packard Enterprise warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.

***The Hewlett Packard Enterprise Support Center Mobile App is subject to local availability**

Parts and materials Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-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 Hewlett Packard Enterprise due to malfunction.

Warranty / Service Coverage For ProLiant servers and storage systems, this service covers Hewlett Packard Enterprise-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by Hewlett Packard Enterprise as consumable parts and/or that have exceeded maximum supported lifetime and/or the

Service and Support

maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

For more information

To learn more on services for HPE ESSN Options, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit:

<http://www.hp.com/services/proliant> or **<http://www.hp.com/services/bladesystem>**

Related Options

Related Options

| | |
|---|--|
| Common Slot Power Supply Enablement Kits | <p>HP DL160 Gen8 FIO Power Backplane Kit 662959-B21</p> <p>NOTE: When configuring the HPE DL160 Gen 8 with a Common Slot power supply, this enablement kit must be used for proper installation. The Common Slot power supply and power backplane kit for the DL160 Gen8 must be factory installed and cannot be purchased as separate options.</p> <p>HP DL320e Gen8 Factory Integrated RPS Enablement Kit 675451-B21</p> <p>NOTE: When configuring the HPE DL320e Gen 8 with a Common Slot power supply, this enablement kit must be used for proper installation. The Common Slot power supply and enablement kit for the DL320e Gen8 must be factory installed and cannot be purchased as separate options.</p> <p>HP 4U Redundant Power Supply Enablement Kit 675843-B21</p> <p>NOTE: When configuring the HPE ML310e Gen 8 with a Common Slot power supply, this enablement kit must be used for proper installation. The Common Slot power supply and enablement kit for the ML310e Gen8 must be factory installed and cannot be purchased as separate options.</p> <p>HP Redundant Enablement Kit 664046-B21</p> <p>NOTE: When configuring the HPE ML350e Gen 8 with a Common Slot power supply, this kit must be used for proper installation. The Common Slot power supply and enablement kit for the ML350e Gen8 must be factory installed and cannot be purchased as separate options.</p> <p>HP 4X1200W RPS FIO Enablement Kit 659487-B21</p> <p>NOTE: When configuring the HPE ML350p Gen 8 with a Common Slot power supply, this kit must be used for proper installation. The Common Slot power supply and enablement kit for the ML350p Gen8 must be factory installed and cannot be purchased as separate options.</p> |
|---|--|

| | |
|------------------------------------|---|
| VAC C13 to C14 Power Cables | <p>HP C13 - C14 WW 250V 10A Gray 0.7m Jumper Cord A0K03A</p> <p>HP C13 - C14 WW 250V 10A Gray 1.37m Jumper Cord A0K04A</p> <p>HP C13 - C14 WW 250V 10Amp Flint Gray 2.0m Jumper Cord AF573A</p> <p>HP C13 - C14 WW 250V 10A Gray 3.0m Jumper Cord A0K06A</p> <p>HP C13 - C14 WW 250V 10Amp 0.7m Jumper Cord 14-2257-B28</p> <p>HP C13 - C14 WW 250V 10Amp 1.4m Jumper Cord 14-2257-006</p> <p>HP C13 - C14 WW 250V 10Amp 1.4m 15 pc Jumper Cord 14-2257-007</p> <p>HP C13 - C14 WW 250V 10Amp 2.0m Jumper Cord A0K02A</p> <p>HP C13 - C14 WW 250V 10Amp 2.5m Jumper Cord 14-2257-002</p> <p>HP C13 - C14 WW 250V 10Amp 3.0m Jumper Cord 14-2257-003</p> <p>NOTE: Standard power cables and jumpers do not support Power Line Communications or Power Discovery Services.</p> |
|------------------------------------|---|

| | |
|--|---|
| Power Line Communication (PLC) Power Cables | <p>HP C13 - C14 WW 250V 10Amp IPD 0.76m 1pc Jumper Cord SG506A</p> <p>HP C13 - C14 WW 250V 10Amp IPD 0.76m 5pc Jumper Cord SG507A</p> <p>HP C13 - C14 WW 250V 10Amp IPD 1.37m 1pc Jumper Cord SG508A</p> <p>HP C13 - C14 WW 250V 10Amp IPD 1.37m 5pc Jumper Cord SG509A</p> <p>HP C13 - C14 WW 250V 10Amp IPD 1.83m 1pc Jumper Cord SG510A</p> |
|--|---|

Related Options

| | | |
|----------------------------|--|--------|
| | HP C13 - C14 WW 250V 10Amp IPD 1.83m 5pc Jumper Cord | SG511A |
| | HP C13 - C14 WW 250V 10Amp IPD 3.0m 1pc Jumper Cord | SG512A |
| 277VAC Power Cables | HP LS-26 to LS-25 277 Volt 15Amp AC 0.76m Jumper Cord | TK801A |
| | HP LS-26 to LS-25 277 Volt 15Amp AC 1.37M Jumper Cord | TK802A |
| | NOTE: This power cord option is for use with the HPE Common Slot 277VAC Hot Plug Power Supply Kits (717359-B21, 717362-B21, and 717364-B21). | |
| VDC Power Cables | HP 1.3M 48V DC Power Cable Kit | A5S97A |
| | HP 2.5M 48V DC Power Cable Kit | A5S98A |
| | HP 8AWG W/Ground Lug 48V DC 3.0m Power Cord | J6X42A |
| | NOTE: The VDC cable options listed above can only be used with the HPE 750W Common Slot -48VDC Power Supply (636673-B21) excluding J6X42A which needs to be used with 1500W Common Slot -48VDC Power Supply (746708-B21). | |
| | NOTE: Please refer to the Power Cord Matrix for more information on power cords/cable part numbers, input/output descriptions: | |
| | http://www.hp.com/go/powercordmatrix. | |

Power Specifications

| HP 750W Common Slot Titanium Hot Plug Power Supply Kit (697581-B21) | HPE Generic Part Number | | | | | 697579-001 |
|--|--------------------------------|-------|-------|-------|-------|-------------------|
| | HPE Spares Part Number | | | | | 700287-001 |
| Input Voltage Range (V rms) | 200 - 240 | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | |
| Nominal Input Voltage (Vrms) | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | |
| Nominal Input Current (A rms) | 4.0 | 3.9 | 3.7 | 3.5 | 3.3 | |
| Maximum Rated Input Wattage Rating (Watts) | 803 | 802 | 800 | 799 | 798 | |
| Maximum Rated VA (Volt-Amp) | 806 | 805 | 804 | 803 | 803 | |
| Efficiency (%) | 93.4 | 93.5 | 93.7 | 93.8 | 93.9 | |
| Power Factor | 0.996 | 0.995 | 0.996 | 0.995 | 0.994 | |
| Leakage Current (mA) | 0.50 | 0.75 | 0.79 | 0.83 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | |
| Maximum Inrush Current duration (mS) | 0.2 | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2739 | 2735 | 2731 | 2728 | 2724 | |

| HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit (656362-B21) | HPE Generic Part Number | | | | | | | 643931-001 |
|---|--------------------------------|------|------|------|------|------|------|-------------------|
| | HPE Spares Part Number | | | | | | | 660184-001 |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 460 | 460 | 460 | 460 | 460 | 460 | 460 | |
| Nominal Input Current (A rms) | 5.2 | 4.3 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | |
| Maximum Rated Input Wattage Rating (Watts) | 517 | 509 | 496 | 496 | 495 | 495 | 494 | |
| Maximum Rated VA (Volt-Amp) | 524 | 515 | 503 | 502 | 502 | 501 | 500 | |
| Efficiency (%) | 89.0 | 90.4 | 92.7 | 92.8 | 92.9 | 93.0 | 93.1 | |
| Power Factor | 0.998 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1764 | 1736 | 1694 | 1692 | 1689 | 1687 | 1686 | |

| HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit (656363-B21) | HPE Generic Part Number | | | | | | | 643932-001 |
|---|--------------------------------|-----|-----|-----|-----|-----|-----|-------------------|
| | HPE Spares Part Number | | | | | | | 660183-001 |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | 750 | |

Power Specifications

| | | | | | | | |
|--|-------|------|------|------|------|------|------|
| Nominal Input Current (A rms) | 8.5 | 7.0 | 4.1 | 3.9 | 3.7 | 3.6 | 3.5 |
| Maximum Rated Input Wattage Rating (Watts) | 843 | 831 | 811 | 811 | 809 | 808 | 821 |
| Maximum Rated VA (Volt-Amp) | 855 | 842 | 822 | 821 | 820 | 819 | 832 |
| Efficiency (%) | 88.9 | 90.3 | 92.4 | 92.5 | 92.7 | 92.8 | 91.3 |
| Power Factor | 0.998 | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2878 | 2834 | 2769 | 2766 | 2762 | 2758 | 2803 |

| | | | | | | | |
|--|--------------------------------|------|------|------|-------------------|------|------|
| HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (656364-B21) | HPE Generic Part Number | | | | 643933-001 | | |
| | HPE Spares Part Number | | | | 660185-001 | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 800 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 |
| Nominal Input Current (A rms) | 9.1 | 8.4 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 |
| Maximum Rated Input Wattage Rating (Watts) | 897 | 999 | 1321 | 1319 | 1317 | 1315 | 1314 |
| Maximum Rated VA (Volt-Amp) | 909 | 1012 | 1338 | 1337 | 1334 | 1332 | 1331 |
| Efficiency (%) | 89.2 | 90.1 | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 |
| Power Factor | 0.998 | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 3061 | 3408 | 4506 | 4501 | 4493 | 4487 | 4483 |

| | | | | | | | |
|--|--------------------------------|-------|-------|-------|-------------------|--|--|
| HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21) | HPE Generic Part Number | | | | 684529-001 | | |
| | HPE Spares Part Number | | | | 704604-001 | | |
| Input Voltage Range (V rms) | 200 - 240 | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | |
| Nominal Input Voltage (Vrms) | 200 | 208 | 220 | 230 | 240 | | |
| Maximum Rated Output Wattage Rating | 1500 | 1500 | 1500 | 1500 | 1500 | | |
| Nominal Input Current (A rms) | 8.4 | 8.1 | 7.6 | 7.3 | 7.0 | | |
| Maximum Rated Input Wattage Rating (Watts) | 1661 | 1659 | 1655 | 1652 | 1649 | | |
| Maximum Rated VA (Volt-Amp) | 1681 | 1679 | 1675 | 1672 | 1669 | | |
| Efficiency (%) | 90.3 | 90.4 | 90.6 | 90.8 | 91.0 | | |
| Power Factor | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | | |
| Leakage Current (mA) | 0.50 | 0.75 | 0.79 | 0.83 | 1.00 | | |
| Maximum Inrush Current (A peak) | 40 | | | | | | |
| Maximum Inrush Current duration (mS) | 0.2 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 5667 | 5661 | 5648 | 5637 | 5627 | | |

Power Specifications

| HP 460W Common Slot Platinum Hot Plug Power Supply Kit (739252-B21) | HPE Generic Part Number | | | | 746071-001 | | | |
|--|--------------------------------|------|------|------|-------------------|------|------|--|
| | HPE Spares Part Number | | | | 742515-001 | | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 460 | 460 | 460 | 460 | 460 | 460 | 460 | |
| Nominal Input Current (A rms) | 5.2 | 4.3 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | |
| Maximum Rated Input Wattage Rating (Watts) | 517 | 509 | 496 | 496 | 495 | 495 | 494 | |
| Maximum Rated VA (Volt-Amp) | 524 | 515 | 503 | 502 | 502 | 501 | 500 | |
| Efficiency (%) | 89.0 | 90.4 | 92.7 | 92.8 | 92.9 | 93.0 | 93.1 | |
| Power Factor | 0.998 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1764 | 1736 | 1694 | 1692 | 1689 | 1687 | 1686 | |

| HP 750W Common Slot Platinum Hot Plug Power Supply Kit (739254-B21) | HPE Generic Part Number | | | | 746072-001 | | | |
|--|--------------------------------|------|------|------|-------------------|------|------|--|
| | HPE Spares Part Number | | | | 742516-001 | | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | 750 | |
| Nominal Input Current (A rms) | 8.5 | 7.0 | 4.1 | 3.9 | 3.7 | 3.6 | 3.5 | |
| Maximum Rated Input Wattage Rating (Watts) | 843 | 831 | 811 | 811 | 809 | 808 | 821 | |
| Maximum Rated VA (Volt-Amp) | 855 | 842 | 822 | 821 | 820 | 819 | 832 | |
| Efficiency (%) | 88.9 | 90.3 | 92.4 | 92.5 | 92.7 | 92.8 | 91.3 | |
| Power Factor | 0.998 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2878 | 2834 | 2769 | 2766 | 2762 | 2758 | 2803 | |

| HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (748287-B21) | HPE Generic Part Number | | | | 746073-001 | | | |
|--|--------------------------------|-----|------|------|-------------------|------|------|--|
| | HPE Spares Part Number | | | | 748896-001 | | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 800 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| Nominal Input Current (A rms) | 9.1 | 8.4 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | |
| Maximum Rated Input Wattage Rating (Watts) | 897 | 999 | 1321 | 1319 | 1317 | 1315 | 1314 | |

Power Specifications

| | | | | | | | |
|--|-------|------|------|------|------|------|------|
| Maximum Rated VA (Volt-Amp) | 909 | 1012 | 1338 | 1337 | 1334 | 1332 | 1331 |
| Efficiency (%) | 89.2 | 90.1 | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 |
| Power Factor | 0.998 | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 3061 | 3408 | 4506 | 4501 | 4493 | 4487 | 4483 |

| HP 1200W Common Slot Platinum Hot Plug Power Supply Kit (578322-B21) | HPE Generic Part Number | | | | 570451-101 | | | |
|---|--------------------------------|------|------|------|-------------------|------|------|--|
| | HPE Spares Part Number | | | | 579229-001 | | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 800 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| Nominal Input Current (A rms) | 9.3 | 8.6 | 6.7 | 6.5 | 6.1 | 5.8 | 5.6 | |
| Maximum Rated Input Wattage Rating (Watts) | 889 | 989 | 1290 | 1290 | 1290 | 1290 | 1290 | |
| Maximum Rated VA (Volt-Amp) | 927 | 1031 | 1345 | 1345 | 1345 | 1345 | 1345 | |
| Efficiency (%) | 90 | 91 | 93 | 93 | 93 | 93 | 93 | |
| Power Factor | 0.97 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 10 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 3033 | 3375 | 4403 | 4403 | 4403 | 4403 | 4403 | |

| HP 460W Common Slot Gold Hot Plug Power Supply Kit (503296-B21) | HPE Generic Part Number | | | | 499249-001 | | | |
|--|--------------------------------|------|------|------|-------------------|------|------|--|
| | HPE Spares Part Number | | | | 511777-001 | | | |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 460 | 460 | 460 | 460 | 460 | 460 | 460 | |
| Nominal Input Current (A rms) | 5.5 | 4.5 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | |
| Maximum Rated Input Wattage Rating (Watts) | 526 | 520 | 505 | 505 | 503 | 503 | 503 | |
| Maximum Rated VA (Volt-Amp) | 548 | 542 | 527 | 527 | 524 | 524 | 524 | |
| Efficiency (%) | 524 | 88.5 | 91 | 91 | 91.5 | 91.5 | 91.5 | |
| Power Factor | 0.97 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1794 | 1773 | 1725 | 1725 | 1715 | 1715 | 1715 | |

NOTE: The table above provides power specifications for this power supply; however, it is recommended that the HPE

Power Specifications

Power Advisor tool be used to estimate power requirements for this server as power efficiency may vary when using this option kit. The HPE Power Advisor tool can be downloaded at: <http://www.hp.com/go/hppoweradvisor>.

| HP 750W Common Slot Gold Hot Plug Power Supply Kit (512327-B21) | HPE Generic Part Number | | | | | | | 506821-001 |
|--|--------------------------------|------|------|------|------|------|------|-------------------|
| | HPE Spares Part Number | | | | | | | 511778-001 |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | 750 | |
| Nominal Input Current (A rms) | 8.9 | 7.4 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 | |
| Maximum Rated Input Wattage Rating (Watts) | 857 | 847 | 824 | 824 | 820 | 820 | 820 | |
| Maximum Rated VA (Volt-Amp) | 894 | 884 | 859 | 859 | 854 | 854 | 854 | |
| Efficiency (%) | 87.5 | 88.5 | 91 | 91 | 91.5 | 91.5 | 91.5 | |
| Power Factor | 0.97 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2925 | 2892 | 2812 | 2812 | 2797 | 2797 | 2797 | |

NOTE: The table above provides power specifications for this power supply; however, it is recommended that the HPE Power Advisor tool be used to estimate power requirements for this server as power efficiency may vary when using this option kit. The HPE Power Advisor tool can be downloaded at: <http://www.hp.com/go/hppoweradvisor>.

| HP 1200W Common Slot Silver Hot Plug Power Supply Kit (500172-B21) | HPE Generic Part Number | | | | | | | 490594-001 |
|---|--------------------------------|------|------|------|------|------|------|-------------------|
| | HPE Spares Part Number | | | | | | | 498152-001 |
| Input Voltage Range (V rms) | 100 - 240 | | | | | | | |
| Frequency Range (Nominal) (Hz) | 50 - 60 | | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 | |
| Maximum Rated Output Wattage Rating | 800 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| Nominal Input Current (A rms) | 9.7 | 9.0 | 7.0 | 6.8 | 6.4 | 6.1 | 5.9 | |
| Maximum Rated Input Wattage Rating (Watts) | 930 | 1034 | 1348 | 1348 | 1348 | 1348 | 1348 | |
| Maximum Rated VA (Volt-Amp) | 970 | 1079 | 1406 | 1406 | 1406 | 1406 | 1406 | |
| Efficiency (%) | 86 | 87 | 89 | 89 | 89 | 89 | 89 | |
| Power Factor | 0.97 | | | | | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 | |
| Maximum Inrush Current (A peak) | 30 | | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 3174 | 3530 | 4600 | 4600 | 4600 | 4600 | 4600 | |

| HP 750W Common Slot -48VDC Hot Plug Power Supply Kit (636673-B21) | HPE Generic Part Number | | | | | | | 619671-401 |
|--|--------------------------------|--|--|--|--|--|--|-------------------|
| | HPE Spares Part Number | | | | | | | 639173-001 |

Power Specifications

| | | | |
|--|-----------|-----------|-----------|
| Input Voltage Range (V rms) | 36 - 72 | | |
| Frequency Range (Nominal) (Hz) | DC | | |
| Nominal Input Voltage (Vrms) | 36 | 48 | 72 |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 |
| Nominal Input Current (A rms) | 23 | 17 | 12 |
| Maximum Rated Input Wattage Rating (Watts) | 840 | 820 | 830 |
| Maximum Rated VA (Volt-Amp) | 840 | 820 | 830 |
| Efficiency (%) | 92 | 94 | 92 |
| Power Factor | N/A | | |
| Leakage Current (mA) | N/A | | |
| Maximum Inrush Current (A peak) | 24 | | |
| Maximum Inrush Current duration (mS) | 15 | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2865 | 2796 | 2830 |

| | | | |
|---|--------------------------------|-------------------|------------|
| HP 1500W Common Slot -48V Hot Plug Power Supply Kit (746708-B21) | HPE Generic Part Number | 746703-001 | |
| | HPE Spares Part Number | 794734-001 | |
| Input Voltage Range (VDC) | -40 to -72 | | |
| Frequency Range (Nominal) (Hz) | DC | | |
| Nominal Input Voltage (VDC) | -40 | -48 | -72 |
| Maximum Rated Output Wattage Rating (Watts) | 1500 | 1500 | 1500 |
| Nominal Input Current (ADC) | 40.5 | 33.5 | 22.2 |
| Maximum Rated Input Wattage Rating (Watts) | 1621 | 1607 | 1598 |
| Maximum Rated VA (Volt-Amp) | 1621 | 1607 | 1598 |
| Efficiency (%) | 92.6 | 93.3 | 93.9 |
| Power Factor | N/A | | |
| Leakage Current (mA) | N/A | | |
| Maximum Inrush Current (A peak) | 63 | | |
| Maximum Inrush Current duration (mS) | 10 | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 5530 | 5484 | 5451 |

| | | | |
|--|--------------------------------|-------------------|--|
| HP 1200W Common Slot 380VDC Power Supply Kit (684539-B21) | HPE Generic Part Number | 677721-101 | |
| | HPE Spares Part Number | 704603-001 | |
| Input Voltage Range (V rms) | 240 - 380 | | |
| Frequency Range (Nominal) (Hz) | DC | | |
| Nominal Input Voltage (Vrms) | 240 | 380 | |
| Maximum Rated Output Wattage Rating | 1200 | 1200 | |
| Nominal Input Current (A rms) | 5.6 | 3.5 | |
| Maximum Rated Input Wattage Rating (Watts) | 1320 | 1302 | |
| Maximum Rated VA (Volt-Amp) | 1335 | 1317 | |
| Efficiency (%) | 90.9 | 92.1 | |
| Power Factor | 1.000 | 1.000 | |

Power Specifications

| | | | | | | |
|--|------|--|------|--|--|--|
| Leakage Current (mA) | N/A | | | | | |
| Maximum Inrush Current (A peak) | 8 | | | | | |
| Maximum Inrush Current duration (mS) | 0.2 | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 4505 | | 4444 | | | |

| | | | | | | | |
|---|--------------------------------|-------|-------|-------|-------|-------|-------------------|
| HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit (717359-B21) | HPE Generic Part Number | | | | | | 703247-101 |
| | HPE Spares Part Number | | | | | | 714349-001 |
| Input Voltage Range (V rms) | 200 - 277 | | | | | | |
| Frequency Range (Nominal) (Hz) | 50-60 | | | | | | |
| Nominal Input Voltage (Vrms) | 200 | 208 | 220 | 230 | 240 | 277 | |
| Maximum Rated Output Wattage Rating | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| Nominal Input Current (A rms) | 6.7 | 6.4 | 6.1 | 5.8 | 5.6 | 4.8 | |
| Maximum Rated Input Wattage Rating (Watts) | 1328 | 1327 | 1324 | 1322 | 1320 | 1314 | |
| Maximum Rated VA (Volt-Amp) | 1343 | 1342 | 1339 | 1337 | 1335 | 1330 | |
| Efficiency (%) | 90.3 | 90.4 | 90.6 | 90.8 | 90.9 | 91.3 | |
| Power Factor | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.999 | |
| Leakage Current (mA) | 0.50 | 0.75 | 0.79 | 0.83 | 0.87 | 1.00 | |
| Maximum Inrush Current (A peak) | 8 | | | | | | |
| Maximum Inrush Current duration (mS) | 0.2 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 4532 | 4526 | 4518 | 4511 | 4504 | 4484 | |

| | | | | | | | |
|--|--------------------------------|-------|-------|-------|-------|-------|-------------------|
| HP 750W Common Slot 277VAC Hot Plug Power Supply Kit (717364-B21) | HPE Generic Part Number | | | | | | 666375-101 |
| | HPE Spares Part Number | | | | | | 674890-001 |
| Input Voltage Range (V rms) | 200 - 277 | | | | | | |
| Frequency Range (Nominal) (Hz) | 60 | | | | | | |
| Nominal Input Voltage (Vrms) | 200 | 208 | 220 | 230 | 240 | 277 | |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | |
| Nominal Input Current (A rms) | 4.1 | 4.0 | 3.8 | 3.6 | 3.4 | 3.0 | |
| Maximum Rated Input Wattage Rating (Watts) | 820 | 818 | 817 | 815 | 814 | 811 | |
| Maximum Rated VA (Volt-Amp) | 829 | 827 | 826 | 824 | 824 | 821 | |
| Efficiency (%) | 91.5 | 91.7 | 91.8 | 92.0 | 92.1 | 92.5 | |
| Power Factor | 1.000 | 1.000 | 1.000 | 1.000 | 0.999 | 0.999 | |
| Leakage Current (mA) | 0.50 | 0.75 | 0.79 | 0.83 | 0.87 | 1.00 | |
| Maximum Inrush Current (A peak) | 8 | | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2796 | 2792 | 2786 | 2782 | 2778 | 2767 | |
| Hold Up Time (ms) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | |

| | | | | | | | |
|--|--------------------------------|--|--|--|--|--|-------------------|
| HP 500W Common Slot 277VAC Hot Plug Power Supply Kit (717362-B21) | HPE Generic Part Number | | | | | | 633680-101 |
| | HPE Spares Part Number | | | | | | 638549-001 |

Power Specifications

| | | | | | | |
|--|-----------|-------|-------|-------|-------|-------|
| Input Voltage Range (V rms) | 200 - 277 | | | | | |
| Frequency Range (Nominal) (Hz) | 50-60 | | | | | |
| Nominal Input Voltage (Vrms) | 200 | 208 | 220 | 230 | 240 | 277 |
| Maximum Rated Output Wattage Rating | 500 | 500 | 500 | 500 | 500 | 500 |
| Nominal Input Current (A rms) | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.0 |
| Maximum Rated Input Wattage Rating (Watts) | 540 | 540 | 539 | 539 | 538 | 537 |
| Maximum Rated VA (Volt-Amp) | 547 | 546 | 545 | 545 | 544 | 544 |
| Efficiency (%) | 92.6 | 92.7 | 92.8 | 92.8 | 92.9 | 93.2 |
| Power Factor | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.998 |
| Leakage Current (mA) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Maximum Inrush Current (A peak) | 8 | | | | | |
| Maximum Inrush Current duration (mS) | 20 | | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1843 | 1841 | 1839 | 1837 | 1836 | 1831 |
| Hold Up Time (ms) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Technical Specifications

All AC Power Supplies:

| | |
|---------------------------------|---|
| Operating Temperature | 41° to 122°F (5° to 50°C) |
| Operating Relative Humidity (%) | 5% to 95%, non-condensing |
| Operating Elevation | 0 to 5,000ft (1,524m) with no derating; Maximum inlet air temperature derated linearly down to 40°C from 5000ft (1,524m) to 10,000ft (3,048m) msl |
| 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; Min 90V to Max 132V High Line - Rated: 200 - 240V; Min 180V to Max 264V (model 684532-B21 and 697581-B21 supports High Line only) High Line - Rated: 200 - 277VAC; Min 180VAC to Max 305VAC (only models 717359-B21, 717362-B21, 717364-B21 supported) |
| Input Frequency | Rated: 50 to 60Hz; Min 47Hz to Max 63Hz |
| FCC EMI Certification | FCC Class A (models 578322-B21, 684532-B21, 697581-B21, 717359-B21, 717362-B21, 717364-B21, 739252-B21, 739254-B21, and 748287-B21 only); All other models are Class B certified |
| Mechanical Dimensions (WxHxD) | 1.5 x 3.4 x 7.5 in (3.81 x 8.63 x 19.05 cm) for all models |
| Unit Weight | 2.5 lb (1.13 kg) for models 656362-B21, 656364-B21, 697581-B21, 717359-B21, 717362-B21, and 717364-B21 3.0 lb (1.36 kg) for model 684532-B21 2 lb (0.91 kg) for all other VAC models |
| Shipping Dimensions (WxHxD) | 16.56 x 7.38 x 5.75 in (42.06 x 18.75 x 14.61) for model 684532-B21 15.5 x 7.25 x 5.5 in (39.37 x 18.44 x 13.97 cm) for models 656362-B21, 656364-B21, and 697581-B21 only 12 x 8 x 4.5 in (30.48 x 20.32 x 11.43 cm) for all other VAC models |
| Shipping Weight | 3.98 lb (1.81 hg) for model 684532-B21 3.5 lb (1.59 kg) for models 656362-B21, 656364-B21, 697581-B21, 717359-B21, 717362-B21, and 717364-B21 only 3 lb (1.36 kg) for all other VAC models |
| Kit Contents | All models except 697581-B21, 717359-B21, 717362-B21, and 717364-B21 ship with: (1) Power supply unit, (1) IEC C13-C14 jumper cable, installation/safety guide - models 697581-B21, 717359-B21, 717362-B21, 717364-B21 do not include a power cable |

All DC Power Supplies:

| | |
|---------------------------------|--|
| Operating Temperature | 41° to 122°F (5° to 50°C) |
| Operating Relative Humidity (%) | 5% to 95%, non-condensing |
| Operating Elevation | 0 to 5,000ft (1,524m) with no derating; Maximum inlet air temperature derated linearly down to 40°C from 5000ft (1,524m) to 10,000ft (3,048m) msl |
| Storage Temperature | -40 to 85°C |
| Storage Relative Humidity (%) | 5% to 95%, non-condensing |

Technical Specifications

| | |
|-------------------------------|---|
| Storage Elevation | 0 to 50,000ft msl |
| Input Voltage | 48VDC to 54VDC (nominal); Min 36VDC to Max 72VDC (model 636673-B21) 240VDC to 380VDC(nominal); Min 180VDC to Max 420VDC (model 684539-B21 only) |
| Input Frequency | DC input |
| Conformance Standards | CE Mark, UL, CSA, IEC, EN, CNS, KCC, BSMI, CCC, C-tick, TUV, FCC Class A (model 684539-B21 only) |
| Mechanical Dimensions (WxHxD) | 1.5 x 3.4 x 7.5 in (3.81 x 8.63 x 19.05 cm) |
| Unit Weight | 2.5 lb (1.13 kg) (model 636673-B21) 2.25 lb (1.02 kg) (model 746708-B21) |
| Shipping Dimensions (WxHxD) | 4.4 X 12.25 X 8 in (11.18 x 31.12 x 20.32 cm) (model 636673-B21) 15.5 x 7.25 x 5.5 in (39.37 x 18.44 x 13.97 cm) (model 684539-B21) 16.56 x 7.38 x 5.75 in (42.06 x 18.74 x 14.6 cm) (model 746708-B21) |
| Shipping Weight | 3.2 lb (1.45 kg) (model 636673-B21) 3.5 lb (1.59 kg) (model 684539-B21) 3.98 lb (1.8 kg) (model 746708-B21) |
| Kit Contents | Models 636673-B21and 684539-B21 ship with: (1) Power supply unit, installation/safety guide Model 746708-B21 ships 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 Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise 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 Enterprise web site at: <http://www.hp.com/go/green>. 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 |
|-------------|-----------------------|---------|---|
| 19-Feb-2016 | From Version 12 to 13 | Changed | Models, Related Options, Power Specifications, and Technical Specifications were revised. |
| 30-Mar-2015 | From Version 11 to 12 | Added | Added HPE 1500W Common Slot -48V Hot Plug Power Supply Kit VDC Power Cables were added to Related Options section. |
| | | Changed | What's New changed to: New 1500W -48VDC 94% efficient Common Slot power supply options with Phoenix connectors (no support for HPE Power Discovery Services). Models in Overview section was revised. Service and Support, Power Specifications, and Technical Specifications sections were revised. |
| | | Removed | 460W Common Slot Platinum Hot Plug Power supply kit, 750W Common Slot Platinum Hot Plug Power supply kit, 460W Common Slot Gold Hot Plug Power supply kit, and 750W Common Slot Gold Hot Plug Power supply kit were removed from Models. |
| 29-Sep-2014 | From Version 10 to 11 | Removed | DC Power Cable kits was removed from Related Options. |
| 18-Feb-2014 | From Version 9 to 10 | Changed | Changes made to the What's New section: New Platinum-certified 460W, 750W, and 1200W Common Slot power supply options with standard C14 connectors (no support for HPE Power Discovery Services). |
| 19-Aug-2013 | From Version 8 to 9 | Added | HPE 750W Common Slot Titanium Hot Plug Power Supply Kit and HPE 500W and 750W Common Slot 227VAC Hot Plug Power Supply Kits Mentions of Titanium power supplies were added throughout |
| 07-Jun-2013 | From Version 7 to 8 | Changed | Changes made to the Related Options Section - DC Power Cable Kits |
| 13-May-2013 | From Version 6 to 7 | Added | Power Specifications: Added HPE 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21), HPE 1200W Common Slot 380VDC Power Supply Kit (684539-B21) and HPE 1200W Common Slot 277VAC Hot Plug Power Supply Kit (717359-B21). |
| | | Changed | Overview: Updated Image descriptions, What's New with New HPE 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit supporting high-line AC input voltages, up to 94% power efficiency (80+ Platinum-certified), and HPE Power Discovery Services |

Summary of Changes

| | | | |
|-------------|---------------------|---------|---|
| | | | <p>New 1200W Common Slot 380VDC Hot Plug Power Supply Kit supporting DC power infrastructure from 200V to 380V with up to 94% efficiency</p> <p>Overview: cont. Updated Models section with 684532-B21, 717359-B21 and 684539-B21</p> <p>Standard Features: Updated note in the 80Plus Certification and Enabling Power Discovery Services.</p> <p>Related Options: Updated Enablement Kits to Common Slot Power Supply Enablement Kits and DC Power Cable Kits with D4J67A.</p> <p>Power Specification: Updated entire section</p> |
| 25-Mar-2013 | From Version 5 to 6 | Changed | <p>Updated What New with New HPE 1200W Common Slot 277VAC Hot Plug Power Supply Kit supporting an AC input voltage range from 200V to 277V with up to 94% power efficiency</p> <p>Changed HPE Power Supplies, 80Plus Certification, and Power line communication (PLC) Power Cables.</p> <p>Added HPE 750W Common Slot -48VDC Hot Plug Power Supply Kit (636673-B21) and HPE 1200W Common Slot 277VAC Hot Plug Power Supply Kit (717359-B21)</p> |
| 19-Feb-2013 | From Version 4 to 5 | Changed | Change made to Models in the Overview section. |
| 13-Aug-2012 | From Version 3 to 4 | Changed | Change made in the Overview and Related Options sections. |
| 10-May-2012 | From Version 2 to 3 | Changed | Change made in the Related Options section. |
| 26-Mar-2012 | From Version 1 to 2 | Added | Enablement Kits was added to Related Options. |



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