

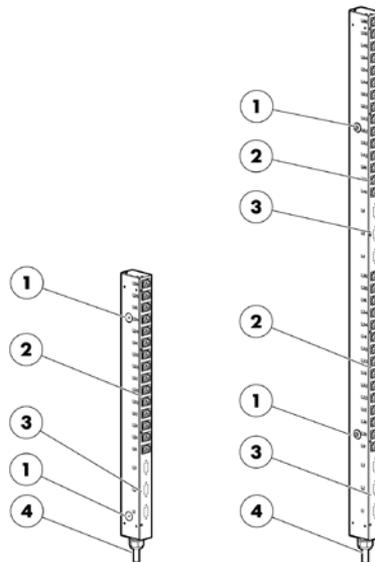
Overview

HPE 480/277 Volt Solutions

As the quest for efficiency continues it becomes apparent that what worked in the past needs improvement. More and more data center managers are looking at alternate power plans to distribute electricity through their facility. One such strategy in North America is to minimize the inefficient and costly transformers used to convert the high 480 volt AC power coming into the building to the lower 200-240 volt power needed for IT equipment.

By bringing 480 volt power directly to the rack all transformers can be eliminated, improving efficiency by several percent. This can save hundreds of thousands of dollars in the construction or expansion of data centers while continuing to save even more in monthly operational costs.

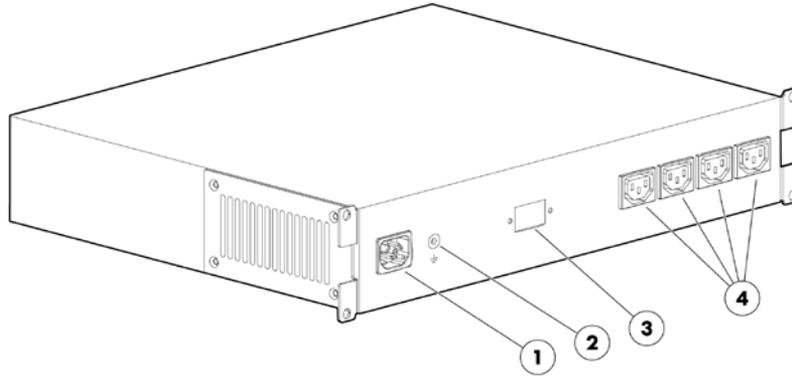
The problem is that neither today's IT equipment nor power distribution was designed to use the single phase 277 volts produced by 480 volt 3 phase distribution. The new HPE 480/277 volt solutions provide the critical infrastructure at the rack to do just that.



480/277 Volt PDUs

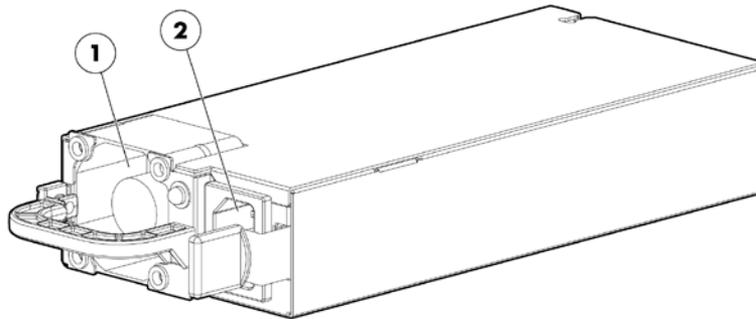
- | | |
|-----------------------------|---------------------|
| 1. Mounting buttons | 3. Circuit breakers |
| 2. LS-26 outlet receptacles | 4. Inlet cord |

Overview



800VA - 277V Input / 230V Output NA Rack Mount Transformer

- 1. LS-25 inlet connection
- 2. Ground bonding screw
- 3. Input circuit breaker
- 4. IEC320-C13 outlets



1200W Common Slot 277VA Power Supply

- 1. Power supply fan
- 2. LS-25 power connector

Models

480/277 Volt Basic Power Distribution Units	HPE 19.9kVA 480 Volt Three Phase 30 Outlet NA Basic PDU	H3X08A
HPE Rack Mount Transformer	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
HPE Common Slot Power Supply	HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit NOTE: http://www.hp.com/go/proliant/powersupply	717359-B21

Standard Features

Key Features

- 13.2kVA and 19.9kVA PDU models
 - 15 Outlet half height and 30 outlet full height models
 - Industry standard button and keyhole mounting is compatible with HPE Intelligent Series Racks and many third party racks.
 - New LS-26 outlet receptacles specifically for 277 volt applications
 - Outlets face the rear of the rack for easy access and improved maintenance zone clearance
 - Waterproof IEC309 pin and sleeve input for safety
- 2U Rack mount transformer
 - LS-25 inlet connection for use with HPE 480/277 Volt PDUs
 - Converts 277 volt to 230 volt for non- 277 volt compatible equipment in the same rack
 - 800VA / 720W output is great for top of rack switches
 - 2 transformers can be mounted back to back to save U space in the rack
 - Uses 4 standard C13 outlets
- 277V Common Slot Power Supply
 - Common Slot design for compatibility
 - 1200W hot pluggable power supply
 - 94% efficient

Easy Installation and compatibility

Standard button and keyhole mounting provides simple drop in installation in HPE Intelligent Series Rack and many third party racks.

Warranty Upgrade Options

HPE Basic PDUs are backed by a limited 3-year warranty. HPE Basic PDUs automatically assume the Care Pack coverage level of any covered ProLiant server in the same rack.

Service and Support

Service and Support **HPE Technology Services**

HPE Technology Services offers you consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, boost availability and avoid downtime.

Protect your business beyond warranty with HPE Pointnext operational services

When you buy HPE Options, it's also a good time to think about what level of service you may need. HPE Pointnext operational services provide total care and support expertise with committed response choices designed to meet your IT and business need.

Recommended HPE Pointnext operational services for optimal satisfaction with your HPE product

Recommended Services 3-Year HPE 24x7 4 hour Response, Hardware Support Onsite Service

Provides you with rapid remote support and if required a Hewlett Packard Enterprise Authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5982-6547EEE>

HPE ProLiant Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN>

Related HPE Pointnext operational services to enhance your HPE product experience

Related Services 3-Year HPE 6 hour Hardware Support Onsite Call-to-Repair Service

Provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 hours of the initial service request to the HPE Global Solution Center

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5982-6547EN>

HPE Proactive Select Service

Provides a flexible way to purchase HPE best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. <https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA2-3842ENN>

Insight Remote Support Delivers secure remote monitoring and support for Hewlett Packard Enterprise servers and storage, 24x7 at no additional cost. Available as part of HPE Warranty, Care Pack and Service Contract offers.

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

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, 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.

Coverage For ProLiant servers and storage systems, this service covers HPE-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.

Service and Support

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HPE 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 HPE as consumable parts and/or that have exceeded maximum supported lifetime and/or the 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

277 Volt jumper cords

HP LS-26 to LS-25 277 Volt 15Amp AC 0.76m Jumper Cord

TK801A

HPE LS-26 to LS-25 277 Volt 15Amp AC 1.37M Jumper Cord

TK802A

NOTE: 277 volt jumper cords can be used to connect the HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer to HPE 4800/277 Volt Basic PDUs.

Model Matrix

480/277 Volt Basic PDUs

19.9kVA 480/277V PDU

HPE 19.9kVA 480 Volt Three Phase 30 Outlet NA Basic PDU H3X08A

Input Voltage	96 inches (243.8 cm) with attached IEC 530P7
Input Connection	IEC 309 480 volt, 30 amp, 3 phase, 5 wire (IEC 530C7)
Facility power connection	15 x Rong Feng 203-P-HPE (LS-26)
Output Receptacles	41.57 amps across all three phases
Current (max)	50-60Hz
Frequency (Hertz)	19952 (@480V)
Load Capacity (VA)	6 X 20A
Output Circuit Breakers	96 inches (243.8 cm) with attached IEC 530P7

277 Volt Rack Mount Transformer

800VA 277V / 230V Rack Mount Transformer

Part Number	H3X09A
Input Voltage	277 volt line -neutral
Input Connection	Rong Feng 203-HPE (LS-25)
Facility power connection	230 volt single phase
Output Receptacles	4 x IEC309-C13
Current (max)	800VA
Frequency (Hertz)	720 watts
Load Capacity (VA)	60Hz
Output Circuit Breakers	1 X 4A

277 Volt Common Slot Power Supply

1200W Common Slot 277VAC Hot Plug Power Supply

Part Number	703247-101
Input Voltage	200-277 volt line to neutral
Frequency (Hertz)	50-60hz
Input Connection	Rong Feng 203-HPE (LS-25)
Output Wattage (max)	1200 watts
Efficiency	94% at 50% load
Power Factor	.999

NOTE: For more information on all HPE Common Slot power supplies got to <http://www.hp.com/go/proliant/powersupply>

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>.

Disclaimer: HPE makes no recommendations regarding power connector manufactures. The model numbers listed in the above tables are strictly for the purpose of providing examples. Please consult a licensed professional to determine the best connector or receptacle for your specific needs.

Technical Specifications

480/277 Volt Basic PDUs

Operating Temperature	50° to 122° F (10° to 50° C)
Operating Relative Humidity (%)	10% to 90%
Operating Elevation	0 to 10,000 ft (0 to 3048 m)
Storage Temperature	-4° to 140° F (-20° to 60° C)
Storage Relative Humidity (%)	5% to 95%
Storage Elevation	0 to 30,000 ft (0 to 9144 m)
Input Plug Length	96 inches (243.8 cm)
Conformance Standards	UL, CUL
Mechanical Dimensions (WxHxD), 15 outlet model	1.98 x 32.4 x 3.15 in (5.03 x 82.3 x 8 cm)
Unit Weight, 15 outlet model	20 lb (9.07 kg)
Mechanical Dimensions (WxHxD), 30 outlet model	1.98 x 62.9 x 3.15 in (5.03 x 159.7 x 8 cm)
Unit Weight, 30 outlet model	40 lb (18.14kg)

277 Volt Rack Mount Transformer

Operating Temperature	32° to 131° F (0° to 55° C)
Input connection	Rong Feng 203-HPE (LS-25)
Conformance Standards	UL, CUL
Mechanical Dimensions (WxHxD), 30 outlet model	17.3x 3.2 x 14.36 in (439.5 x 81.28 x 364.8cm)
Unit Weight, 30 outlet model	66lb (27.22kg)

Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.
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<http://www.hpe.com/recycle>

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. 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.

<http://www.hpe.com/recycle>

Summary of Changes

Date	Version History	Action	Description of Change
23-Oct-2017	From Version 2 to 3	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
12-Jun-2017	From Version 1 to 2	Changed	QuickSpecs was rebranded.
		Removed	Obsolete SKU H3X08A was removed.



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c04154331 - 14575 - Worldwide - V3 - 23-October-2017