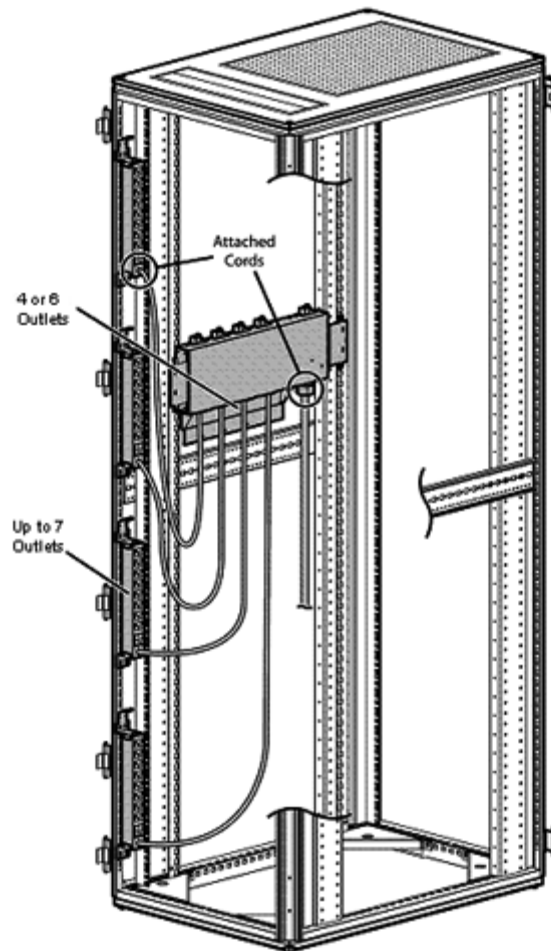


### Overview

#### HPE Modular Power Distribution Units (Zero-U/1U Modular PDUs)

HPE Modular PDUs have a unique modular architecture designed specifically for data center customers who want to maximize power distribution and space efficiencies in the rack. Modular PDUs consist of two building blocks - the Control Unit (core) and the optional Extension Bar(s) (sticks). The Control Unit is 1U/0U, and the optional Extension Bars mount directly to the frame of the rack in multiple locations. Available models range from 24A to 48A current ratings, with output connections ranging from four to six C-IEC C20 outlets.



## Models

### North America, Japan, and South America (Except Argentina and Chile)

<b>200 - 240v 1Ø</b>	HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D75
	HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
<b>200 - 240v 3Ø</b>	HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
	HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
	HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A

### International (Including Argentina and Chile)

<b>200 - 240v 1Ø</b>	HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU	252663-B34
	HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33
<b>380 - 415v 3Ø</b>	HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A
	HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A

\* These Modular Distribution Units are "core only" and do not include any PDU extension bars.

## Standard Features

### Features List

- Single input power distribution units with a unique modular design architecture
- Zero-U/1U dense rack form factor
- Easily accessible outlet receptacles and improved cable management
- Models range from 4.9kVA to 22kVA

### Key Features

#### 4.9 kVA to 9.2kVA 1Ø models

- Unique modular design architecture
- Small form factor with flexible mounting options
- 4 C19 outlet receptacles
- Easy installation

#### 8.6 kVA to 22 kVA 3Ø models

- Unique modular design architecture
- Small form factor with flexible mounting options
- 6 C19 outlet receptacles
- Easy installation

Easy installation in 1U or Zero U configurations

### Unique Modular Design Architecture

Modular PDUs have unique modular design architecture. This "Building block" concept consists of two main parts, the Control Unit, and the optional extension bar(s). The Control Unit is zero-U or 1U rack mountable. Optional extension bars mount directly to the rack-frame.

#### 1Ø Modular PDUs

- Each Control Unit is a single-phase unit that branches out to 4 single-phase branch circuits.
- The Optional PDU extension bars can be plugged into the Control Unit, and can be mounted directly to the rack frame, spanning the entire length of the rack.

#### 3Ø Modular PDUs

- Each Control Unit is a three-phase input that branches out to 6 single-phase branch circuits.
- Optional extension bars can be added to provide C13 outlets.

### Easy Installation

Installation is quick and easy. Whether you choose to mount the Modular PDU in zero-U or 1U, all required mounting brackets, accessories, and installation instructions are shipped with the product.

### Compatibility

Ideal for use with the HP10000 G2, 11000 G2, and Intelligent Series Racks, the Modular PDUs are largely designed for the dense rack environment. These Modular PDUs connect directly to the facility input power.

### Warranty Upgrade Options

HPE Modular PDUs are backed by a limited 3-year warranty. When used in the HPE 10000 G2, 11000 G2, and Intelligent Series Racks, HPE PDUs assume the warranty of the HPE Rack in which they're installed. HPE Care Pack services bought for the HPE Rack also extend towards the HPE Modular PDU if it is being used inside the HPE rack.

## Service and Support

**HPE Support Services** Support services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HPE Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft, Linux, ProLiant Essentials and VMWare-based IT solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

**NOTE:** Additional information regarding worldwide limited warranty and technical support is available at: <http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/>

## Related Options

### Related Options

<b>HPE Two C-13 PDU Extension Bars</b>	HP Two C13 PDU Extension Bar <b>NOTE:</b> Each extension bar has a C-19 input and 7 C-13 receptacles. The option is ideal for core only models of the modular PDUs	AF500A
<b>HPE Two Fixed Cord Extension Bars</b>	HP Fixed Cord Extension Bars <b>NOTE:</b> Each extension bar has a C-19 input and 7 C-13 receptacles on 13 inch cords attached to the extension bars. The option is ideal for powering 1U servers and components.	351655-B21
<b>HPE Support Services</b>	HP Install Rack and Rack Options Service	U2871A
	HPE Install Rack and Rack Options Service	U2871E

## Modular PDU Family Information

### Model Selection Matrix

#### Core Only Modular PDUs

	4.9 kVA PDU	7.3 kVA PDU	8.3 kVA PDU	9.2 kVA PDU	8.6 kVA PDU	11 kVA PDU	14.4 kVA	17.3kVA PDU	22 kVA PDU
<b>Part Number</b>	252663-D74	252663-B33	252663-D75	252663-B34	AF512A	AF513A	AF519A	HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A
<b>Input Connection</b> (Single Input)	Input: 3.6m attached cable with L6-30P	Input: 3.6m attached cable with IEC309-32A, Splash proof (IEC 332P6S)	Input: 3.6m Attached Input cord, Non-NEMA Locking CS8265C, 50A	Input: 3.6m Attached Input cord, IEC 60309 63A, Splash proof (IEC 363P6S)	Input: 3.6m Attached input cord, NEMA L15-30P	Input: 3.6m Attached Input cord, IEC 60309 4 pole, 5 wire, 380-415VAC, 16A, Splash proof (IEC 516P6S)	Input: 3.6m Attached input cord, CS8365C plug	Input 3.6m Attached Input cord IEC 60309 3 pole, 4 wire 200-240VAC 60A Waterproof (IEC 460P9W)	Input: 3.6m Attached Input cord, IEC 60309 4 pole, 5 wire, 380-415VAC, 32A, Waterproof (IEC 532P6W)
<b>Facility power connection</b>	NEMA L6-30R	IEC60309 2 pole, 3 wire, 200-240VAC, 32A IEC 332C6S, 332R6S, or equivalent	Non-NEMA CS8264C or CS8269, 50A or equivalent	IEC60309 2 pole, 3 wire, 200-240VAC, 63A IEC 363C6S, 363R6S, or equivalent	208V 3 phase 3 pole 4 wire (Delta) NEMA L15-30R	IEC60309 4 pole, 5 wire, 380-415 VAC, 16A IEC 516C6S, 516R6S, or equivalent	208V 3 phase 3 pole 4 wire (Delta) CS8364C, CS8369, or equivalent	IEC60309 3 pole, 4 wire, 208VAC 60A IEC 460C9W, 460R9W, or equivalent	4 pole, 5 wire, 380-415 VAC, 32A IEC 532C6W, 532R6W, or equivalent
<b>Output Connections on Modular PDU core</b>	4 IEC 320 C-19	4 IEC 320 C-19	4 IEC 320 C-19	4 IEC 320 C-19	6 IEC 320 C-19	6 IEC 320 C-19	6 IEC 320 C-19	6 IEC 320 C-19	6 IEC 320 C-19
<b>Current (max)</b>	24A	32A	40A	40A	41.52A	16A	69A	83.04A	32A phase
<b>AC Voltage Range</b>	200-240V	200-240V	200-240V	200-240V	208v 3Ø Delta	380-415v 3Ø Wye	208v 3Ø Delta	208v 3Ø Delta	380-415v 3Ø Wye
<b>Frequency (Hertz)</b>	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<b>Load Capacity (VA)</b>	4992 (@208V)	7360 (@230V)	8320 (@208V)	9200 (@230V)	8600 (@208V)	11000 (@230v)	14393 (@208V)	17300 (@208V)	22000 (@230V)
<b>Output Circuit Breakers</b>	4x15A	4x16A	4x15A	4x15A	6 X 20A	6 X 16A	6 X 20A	6 X 20A	6 X 16A

## Modular PDU Family Information

<b>Overload Protection</b>	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group	Yes, per load group
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<b>HPE Power Cables</b>	<b>Cable</b>	<b>Description</b>	<b>Part Number</b>
<b>IEC C-13</b>	4.5 ft (1.37 m), x15	HP C13 - C14 WW 250V 10Amp 1.4m 15 pc Jumper Cord	142257-007
	4.5 ft (1.37 m), x1	HP C13 - C14 WW 250V 10Amp 1.4m Jumper Cord	142257-006
	1.6 ft (0.5m) x1	HP C13 - C14 WW 250V 10Amp 0.7m Jumper Cord	142257-B28
	8 ft (2.5m) x1	HP C13 - C14 WW 250V 10Amp 2.5m Jumper Cord	142257-002
	6 ft (1.83m) x1	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
<b>IEC C-19</b>	8 ft (2.5m) x 1	HP C19 - C20 WW 250V 16Amp 2.5m Jumper Cord	295633-B22
	12 ft (3.66m) x1	HP C19 - Nema L6-20P NA/JP 250V 20Amp High Voltage 3.6m Power Cord	AF593A

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

### All PDUs

<b>Shipping Weight</b>	20.2 lb (9.16 kg)
<b>Operating Temperature</b>	50° to 122° F (10° to 50° C)
<b>Operating Relative Humidity (%)</b>	10% to 90%
<b>Operating Elevation</b>	0 to 10,000 ft (0 to 3048 m)
<b>Storage Temperature</b>	-4° to 140° F (-20° to 60° C)
<b>Storage Relative Humidity (%)</b>	5% to 95%
<b>Storage Elevation</b>	0 to 30,000 ft (0 to 9144 m)
<b>Input Plug Length</b>	142 inches (360.7 cm)
<b>Conformance Standards</b>	UL, CUL, CE, NOM, D - 40A models UL, CUL, NOM - 24A models CE, D - 32A model

### 1Ø 4.9kVA to 9.2kVA

<b>Mechanical Dimensions (WxHxD)</b>	17.46 x 1.66 x 6.00 in (44.34 x 4.21 x 15.24 cm)
<b>Unit Weight</b>	18 lb (8.16 kg)
<b>Shipping Dimensions (WxHxD)</b>	21.5 x 12.25 x 13.0 in (54.61 x 31.12 x 33.02 cm)

### 3Ø 8.6 kVA to 22 kVA

<b>Mechanical Dimensions (WxHxD)</b>	17.5 x 1.62 x 7.5 in (44.45 x 4.11 x 19.22 cm)
<b>Unit Weight</b>	20 lb (9.07 kg)
<b>Shipping Dimensions (WxHxD)</b>	21.5 x 12.25 x 15.0 in (54.61 x 31.12 x 38.1 cm)
<b>Shipping Weight</b>	22.2 lb (10.07 kg)

### Kit Contents

### All Modular PDUs

All models ship with:  
 0U/1U Mounting brackets/hardware for Control Unit  
 Cord Retention bracket for the Control Unit  
 Tie wraps  
 Install Card

<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	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://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA\\_krKiM](http://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA_krKiM)

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 HPE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

<http://www8.hp.com/us/en/hpe/hp->



## Technical Specifications

[information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA\\_krKiM](#)

## Summary of Changes

Date	Version History	Action	Description of Change
07-Oct-2016	From Version 26 to 27	Changed	QuickSpecs was rebranded.
29-Sep-2014	From Version 25 to 26	Changed	Change made in the Technical Specifications section.
30-Jul-2013	From Version 24 to 25	Removed	EOL models were removed.
17-Feb-2012	From Version 23 to 24	Changed	Model Selection Matrix charts were revised.
14-Sep-2011	From Version 22 to 23	Changed	A Model description was revised.
30-Aug-2011	From Version 21 to 22	Changed	Model descriptions and HPE Two C-13 PDU Extension Bars in Related Options were revised  Model Selection Matrix charts were updated
20-Jun-2011	From Version 20 to 21	Changed	Changes made throughout the QuickSpecs.
04-Mar-2011	From Version 19 to 20	Changed	Model Selection Matrix charts were revised.
11-Sep-2009	From Version 18 to 19	Changed	Changed a Note in the Modular PDU Family Information section.
05-Feb-2009	From Version 17 to 18	Changed	Changes affected the North America and Canada versions only. Just the date and version were changed in the Worldwide version.
17-Nov-2008	From Version 16 to 17	Changed	Changes made throughout the QuickSpecs.
14-Nov-2008	From Version 15 to 16	Removed	A note was removed from the Facility power connection row in the Model Selection Matrix.
14-Jul-2008	From Version 14 to 15	Changed	Changes made within the QuickSpecs include:  Models range in the Overview section to 16A - 48A current ratings  Part Number for IEC C-19 12ft Power Cable to AF593A in the Modular PDUs section  1 with 4 IEC 320 C-19 was removed from Extension Bars in the HPE Modular PDUs with Extension Bars Model section  Description for the Input Connection of the Core Only Modular PDUs was changed to Waterproof instead of Splashproof  AF511A and AF518A SKUs were added to the Technical Specifications section
12-May-2008	From Version 13 to 14	Changed	Changes made throughout the QuickSpecs except for the Service and Support section.
05-Sep-2007	From Version 12 to 13	Added	Added the Environment-friendly Products and Approach object to the Technical Specifications section.
25-May-2007	From Version 11 to 12	Changed	Changes made throughout the QuickSpecs.
14-May-2007	From Version 10 to 11	Changed	The QuickSpecs was rewritten.
15-Dec-2006	From Version 9 to 10	Changed	Changes made within the Product Highlights and Technical Specifications section only.
27-Nov-2006	From Version 8 to 9	Changed	Changes made throughout the Overview and Product Highlights sections
29-Apr-2005	From Version 7 to 8	Added	Added Model No.'s 252663-D75, 252663-B34, 252663-B33, and 252663-D74.
01-Apr-2005	From Version 6 to 7	Changed	Revised Technical Specs and Model Selection Matrix.
		Added	Added Care Pack Hardware Installation P/N's.
28-Jan-2005	From Version 5 to 6	Changed	Changed 16A to 24A in the Model Selection Matrix Object

## Summary of Changes

			in the Modular PDU Family section.
01-Nov-2004	From Version 4 to 5	Changed	The document was completely revised.
02-Sep-2003	From Version 3 to 4	Changed	Document was reformatted.
11-Dec-2002	From Version 2 to 3	Changed	Corrections were made throughout the various Specification Tables.
19-Nov-2002	From Version 1 to 2	Changed	This QuickSpecs was completely revised for this announcement.



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