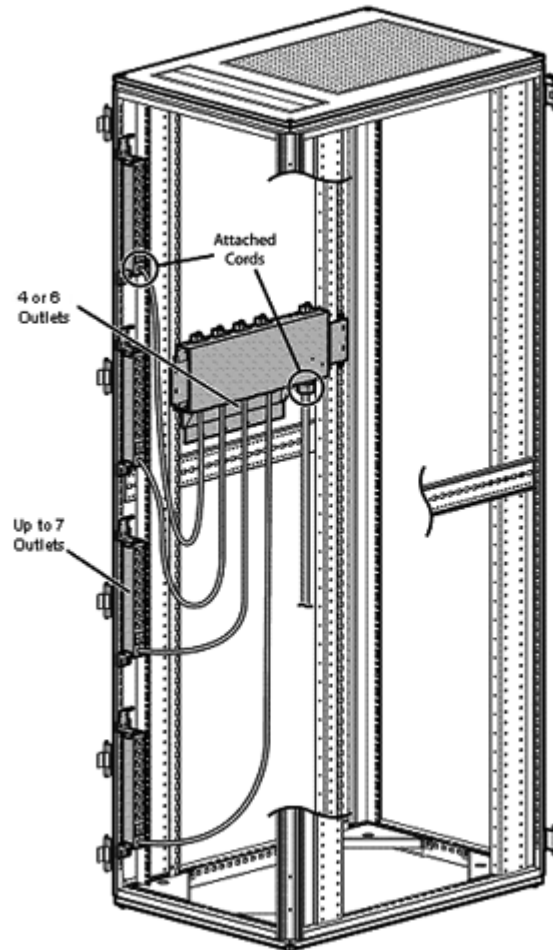


Overview

HP 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)

200 - 240v 1Ø	HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D75
	HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
200 - 240v 3Ø	HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit	AF512A
	HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit	AF519A
	HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A

International (Including Argentina and Chile)

200 - 240v 1Ø	HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit	252663-B34
	HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
380 - 415v 3Ø	HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit	AF513A
	HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	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

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

Service and Support

HP Care Pack Services

Care Pack 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 HP 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: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at: <http://www.hp.com/hps/carepack>

NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: <http://www.hp.com/hps>

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

Related Options

Related Options

HP Two C-13 PDU Extension Bars

HP Two C13 PDU Extension Bar

AF500A

NOTE: 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

HP Two Fixed Cord Extension Bars

HP Fixed Cord Extension Bars

351655-B21

NOTE: 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.

HP Care Pack Services

HP Install Rack and Rack Options Service

U2871A

HP 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
Part Number	252663-D74	252663-B33	252663-D75	252663-B34	AF512A	AF513A	AF519A	AF511A	AF518A
Input Connection (Single Input)	Input: 3.6m attached cable with L6-30P	Input: 3.6m attached cable with IEC309-32A, Splashproof (IEC 332P6S)	Input: 3.6m Attached Input cord, Non-NEMA Locking CS8265C, 50A	Input: 3.6m Attached Input cord, IEC 60309 63A, Splashproof (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, Splashproof (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)
Facility power connection	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
Output Connections on Modular PDU core	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
Current (max)	24A	32A	40A	40A	41.52A	16A	69A	83.04A	32A phase
AC Voltage Range	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
Frequency (Hertz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Load Capacity (VA)	4992 (@208V)	7360 (@230V)	8320 (@208V)	9200 (@230V)	8600 (@208V)	11000 (@230v)	14393 (@208V)	17300 (@208V)	22000 (@230V)
Output Circuit Breakers	4x15A	4x16A	4x15A	4x15A	6 X 20A	6 X 16A	6 X 20A	6 X 20A	6 X 16A
Overload Protection	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

Modular PDU Family Information

HP Power Cables	Cable	Description	Part Number
IEC C-13	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
IEC C-19	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

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: HP 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

Shipping Weight	20.2 lb (9.16 kg)
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	142 inches (360.7 cm)
Conformance Standards	UL, CUL, CE, NOM, D - 40A models UL, CUL, NOM - 24A models CE, D - 32A model

1Ø 4.9kVA to 9.2kVA

Mechanical Dimensions (WxHxD)	17.5 x 1.62 x 5.6 in (44.45 x 4.11 x 14.22 cm)
Unit Weight	18 lb (8.16 kg)
Shipping Dimensions (WxHxD)	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

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

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP 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 HP sales office. Products returned to HP 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 web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Technical Specifications

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