

MODULAR POWER DISTRIBUTION UNIT KIT

Installation Instructions

Read Instructions Completely Before Beginning Installation Procedures



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Compaq Modular Power Distribution Unit Kit Installation Instructions

First Edition (January 2002)
Part Number 240824-001



240824-001

About This Device

These instructions serve as an outline to assist qualified personnel with the installation of the Compaq Modular Power Distribution Unit (mPDU). The input voltage for this mPDU is either 100 to 127 VAC or 200 to 240 VAC, depending on the model. The mPDU consists of a control unit and four extension bars and is compatible with Compaq 9000 and 10000 Series racks.

- The control unit provides:
 - Flexible mounting in 0U or 1U configurations, maximizing rack space (no additional parts required for mounting)
 - Overcurrent and short circuit protection for each output (four 15A UL-489 Listed circuit breakers)
 - Manual on/off control for each of the four output load groups
 - Power on/off switch and pilot indicator for main AC input
 - Four IEC-320 C19 outlets to power up to four extension bars, or other IEC-320 C20 plug-compatible equipment
 - Easy identification of overloaded circuits (circuit breakers move to Off position), minimizing downtime due to overload conditions
 - Switch guards to prevent inadvertent power-off
 - Secure outlet power cable retention
- The extension bars provide:
 - Multiple power outlets, conveniently located for quick and easy equipment power connections
 - Easy snap-in mounting design
 - Lighted main power switch
 - Attached power cords, 2 meters long, for attaching to the control unit

Model	Max Current	Input	Outlets
Low Volt			
252663-D71 mPDU,NA/JPN 100 - 127 VAC	24A	NEMA L5-30P	NEMA 5-15R (x32)
High Volt			
252663-D72 mPDU,NA/JPN 200 - 240 VAC	24A	NEMA L6-30P	IEC 320 C-13 (x32)
252663-B31 mPDU,INTL 200 - 240 VAC	32A	IEC 309-32A	IEC 320 C-13 (x32)
252663-B21 mPDU,WW 200 - 240 VAC	40A	Field Wired Terminal	IEC 320 C-13 (x24) IEC 320 C-19 (x4)

Regulatory Compliance Information

All regulatory certifications for these products were obtained under the following agency series numbers.

- | | | | |
|-------------------------------------|--------|-------------------------------------|--------|
| ■ Control Units | | ■ Extension Bars | |
| <input type="checkbox"/> 228481-001 | EO4500 | <input type="checkbox"/> 228480-001 | EO4600 |
| <input type="checkbox"/> 228481-002 | EO4501 | <input type="checkbox"/> 228480-002 | EO4601 |
| <input type="checkbox"/> 228481-003 | EO4502 | <input type="checkbox"/> 228480-003 | EO4602 |
| <input type="checkbox"/> 228481-004 | EO4503 | | |

Important Safety Information Read Before Installing Product

Please refer to the *Important Safety Information* guide (included with this kit) before installing this product.

Safety Precautions

WARNING: To reduce the risk of personal injury resulting from electric shock, do not remove the cover from the Modular Power Distribution Unit. There are no field-serviceable or user-serviceable components inside.

WARNING: To reduce the risk of personal injury from electrical shock and hazardous energy levels, the installation of options and routine maintenance and service of this product must be performed by individuals who are knowledgeable about the procedures, precautions, and hazards associated with AC power products.

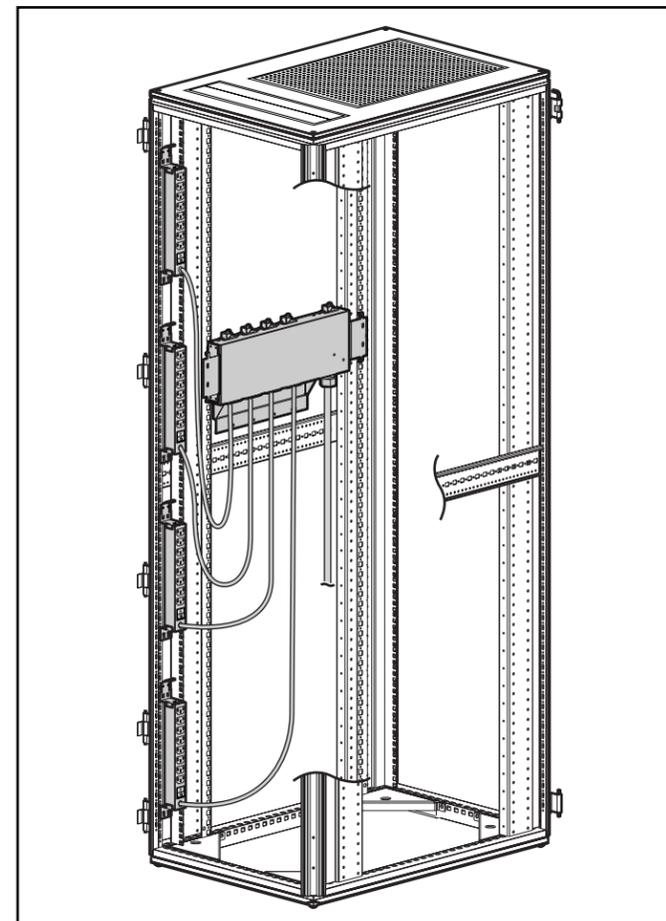
Take the following safety precautions when connecting multiple pieces of information technology equipment to UPS and mPDU units.

WARNING: High leakage current! Earth connection essential before connecting power supply.

The summation of the input power for multiple pieces of information technology equipment through the use of a UPS or mPDU can result in high leakage currents. If the total system leakage current for a system of components exceeds 3.5 mA:

- The use of a detachable input power cord for the UPS or mPDU is prohibited.
- The input cord must be securely attached to the UPS or mPDU and it should be connected to the AC mains by hard wiring or through the use of a non-residential, industrial-style plug that maintains positive earth connection.
- If the total system leakage current through the ground conductor exceeds 5% of the input current per line under normal operating conditions, the system loads should be divided among multiple power connections.

Compaq Modular Power Distribution Unit



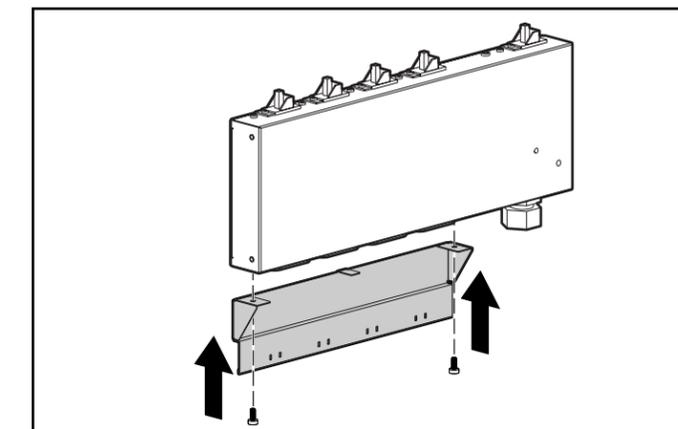
Kit Contents

- Control unit hardware
 - Control Unit
 - Assembly, 0U mounting
 - Mounting brackets (2)
 - Screws with lock washer (4)
 - Screws, sheetmetal, bracket to rack (4)
 - Assembly, 1U mounting
 - Mounting brackets (2)
 - Screws with lock washer (4)
 - Screws, countersink, bracket to rack (2)
 - Washers, countersink (2)
 - Assembly, cord retention
 - Cord retention bracket (1)
 - Screws with lock washer (2)
 - Tie wraps (6)
- Extension bar hardware
 - Extension bars (4)
 - Assembly, rack mounting
 - Upper bracket (4)
 - Lower bracket (4)
 - Screws, 5mm, bracket to extension bar (8)
 - Screws, sheetmetal, lower bracket to rack frame (4)



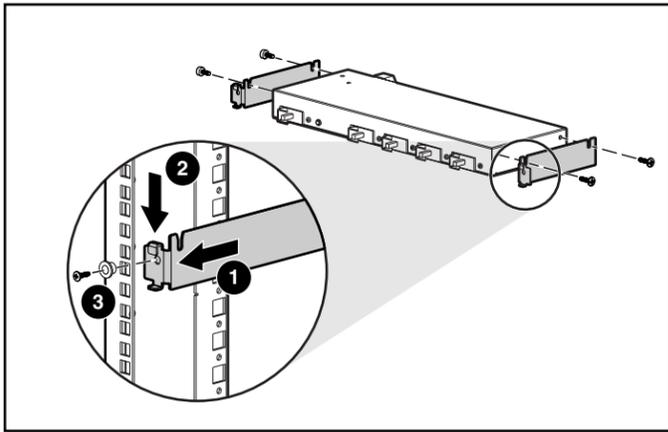
1 Installing the Cord Retention Bracket

Align the cord retention bracket with screw holes in the control unit. Use screws (2) with a lock washer, to attach the bracket to the control unit.



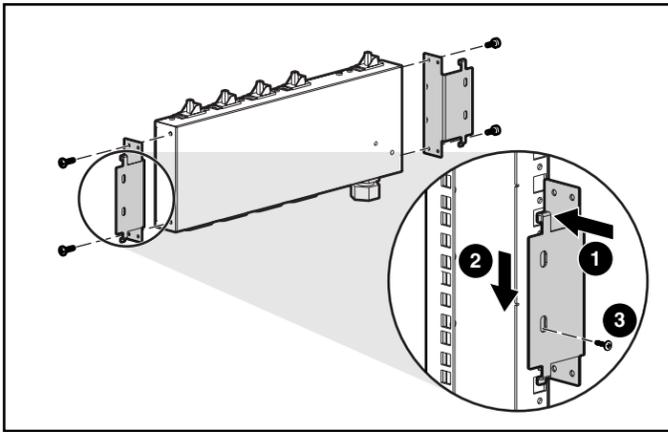
2 Installing the Control Unit - 1U

Align the bracket with screw holes in the control unit. Use screws (4) with lock washers, to attach brackets to the control unit, and then secure. Align the bracket with the holes in the rack, ❶ and ❷, then secure the control unit to the rack by using countersink screws and washers (one on each side) ❸.



3 Installing the Control Unit - 0U

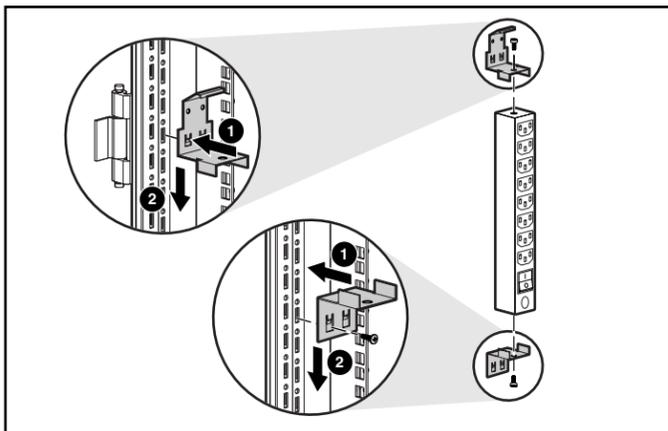
Align the bracket with screw holes in the control unit. Use screws (4) with lock washers, to attach the brackets to the control unit, and then secure. Align the brackets with the holes in the rack, ❶ and ❷, then secure the control unit to the rack by using sheetmetal screws (two on each side) ❸.



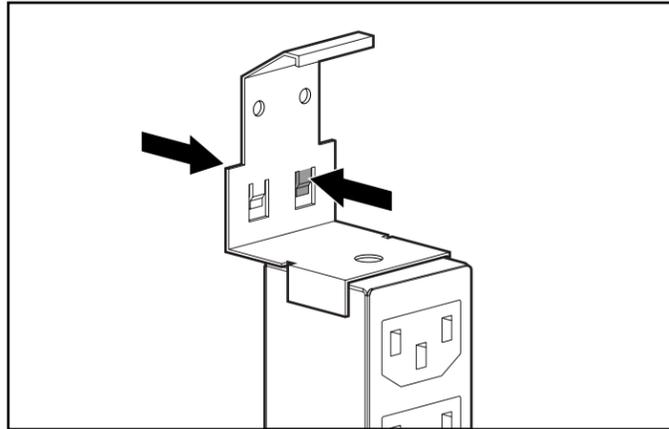
4 Installing the Extension Bars

Align the brackets with the screw holes in the the extension bars. Use 5mm screws to attach the brackets to the extension bars, and then secure. Align tabs on the brackets with the holes in the rear of the rack, ❶ and ❷, then secure the Extension Bars by using a sheetmetal screw in the lower bracket.

Standard rack

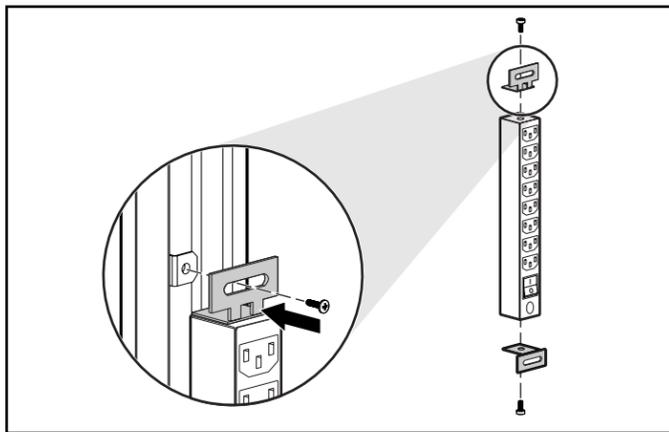


If the bracket interferes in the upper or lower positions in the rack, squeeze tabs, as shown. This view assumes the extension bars are mounted on the left side of the rack. If mounted on the right side of the rack, squeeze the left tab.



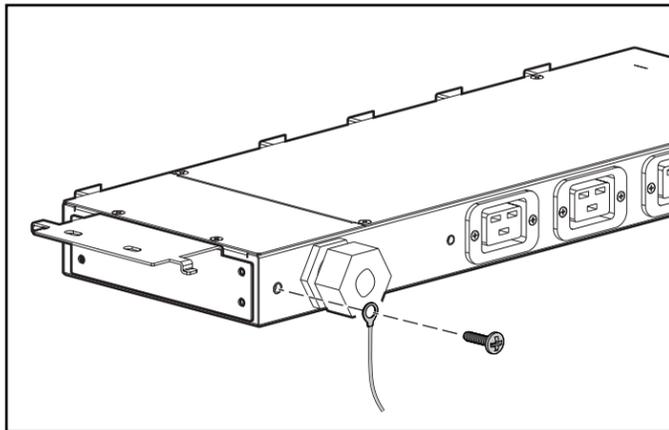
9000 Series Rack with optional Rear Extension Kit

The brackets for the Rear Extension Kit are not included as part of this kit. These brackets are available as part of the Rack Extension Kit, Part Number 120679-B21 or spares part number 271658-001, and can be ordered by calling 1-800-OK-Compaq.



5 Using the Ground Bonding Screw

A ground bonding screw is provided on the rear of the control unit. Users may connect conductors to this attach point for purposes of functional grounding or bonding of parts and equipment within the rack.



6 Connecting Devices

When connecting devices to this mPDU, distribute loads evenly to remain within the capability of the extension bars and of the control unit.

Use tie wraps to secure extension bar line cords to the control unit cable retention bracket.

Extension Bars	Total Rating of Extension Bar	Outlet Style	Individual Outlet Rating
228480-001	12A	NEMA 5-15R	12A
228480-002	12A	IEC 320 – C13	10A
228480-003	12A	IEC 320 – C19	12A

Control Units	Total Rating of Control Unit	Outlet Style	Individual Outlet Rating
228481-001	24A	IEC 320 – C19	12A
228481-002	24A	IEC 320 – C19	12A
228481-003	32A	IEC 320 – C19	12A
228481-004	40A	IEC 320 – C19	12A

Hardwiring

Model 252663-B21 must be hardwired by a qualified electrician in accordance with local electrical installation codes.

About the Circuit Breakers

If power to a device is interrupted, check the circuit breakers and reset, if necessary. If power is still not restored, contact your Compaq authorized service representative at 1-800-OK-COMPAQ (1-800-652-6672). For continuous quality improvement, calls may be recorded or monitored.

For additional information, visit the Compaq website at www.compaq.com.

Translated versions of this document are available at www.compaq.com.

Installation is complete.