



Sun™ Cabinet Power Distribution Unit (PDU) Installation Guide

For Sun Storage 6580 and 6780 Arrays and
Sun StorageTek™ 2500 and 6000 Array Series

Sun Microsystems, Inc.
www.sun.com

Part No. 820-6200-10
December 2008, Revision A

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Installing a PDU

This guide describes how to install a power distribution unit (PDU) into the Sun Rack II for the Sun Storage 6580 or 6780 arrays and Sun StorageTek 2500 and 6000 series arrays. Additional [Related Documentation](#) is available online at the Sun documentation web site:

<http://docs.sun.com/app/docs/prod/6780.array#hic>

Prepare for Installation

▼ Check the Contents of the PDU Kit

This PDU system is a cost-reduced dual-grid power option that has been proven in prior Sun designs and has the capacity to distribute sufficient power for storage products mounted in a Sun Rack II.

The PDU kit should contain the following items:

- Four PDUs with captive power cables
- 24 M5 x 10MM long screws with captive lockwashers. Each PDU uses 2 screws to attach the mounting brackets to the PDU and 2 screws per mounting bracket to attach them to the cabinet rails.
- Eight mounting brackets (four A mounting brackets and four B mounting brackets)

FIGURE 1 One of Two Pairs of PDUs with Captive Power Cords and Mounting Screws

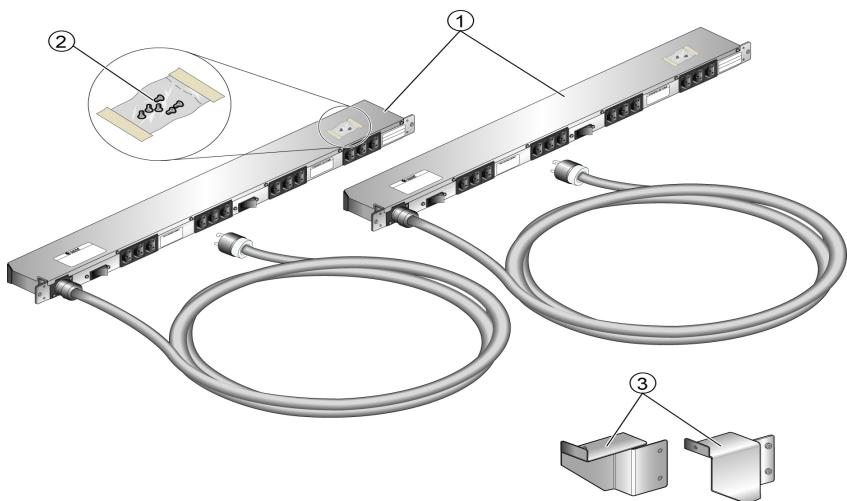


Figure Legend

-
- 1** PDUs with captive power cords (one hard-wired to each PDU)
 - 2** Package of screws
 - 3** Mounting brackets A and B
-

▼ Gather Required Items

In addition to the items included in the box, you will need the following items:

- T30 Torx wrench (provided with the Sun Rack II)
- Phillips head screwdriver
- For each PDU: one A mounting bracket, one B mounting brackets, six M5 x 10MM long screws

Mounting brackets A and B are mirror images of each other. When facing the rear of the rack, mounting bracket A is used as the upper mounting bracket on the right side and the lower mounting bracket on the left side. Conversely, mounting bracket B is used as the lower mounting bracket on the right side and the upper mounting bracket on the left side

Note – Mounting brackets A and B can be slipped between the side covers and the rear RETMA rails for assembly, without the need to remove the side covers.

▼ Read Safety Guidelines

Follow all safety guidelines as described in:

- *Important Safety Information for Sun Hardware Systems*
 - *Sun Storage Regulatory and Safety Compliance Manual*
-

Install the PDUs in the Rack

1. At the back of the rack, align the top of the upper PDU mounting bracket with the top edge of U38 to locate the vertical rail mounting holes you will use to install the top PDU.

Note – A standard mounting rack unit (RU) equals 1.75" (44.45 cm) and consists of three mounting holes in the vertical mounting rails.

2. Mount the bracket to the outer side of the vertical rail using two 5M x 10MM screws. Use the T30 Torx wrench to tighten the screws.

Note – Do not mount the brackets to the PDU beforehand, as the weight of the PDU and cord makes it difficult to align with the mounting holes in the RETMA rails. At least one of the brackets should be assembled in the rack first to assist in positioning the other brackets.

FIGURE 2 Mounting the Upper PDU Mounting Brackets to the Cabinet Rails

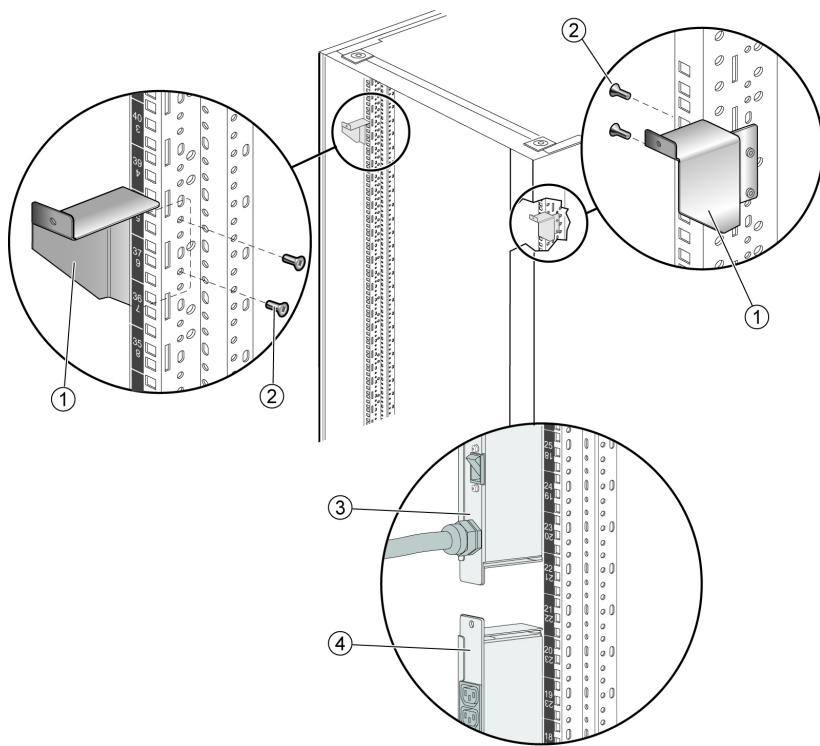


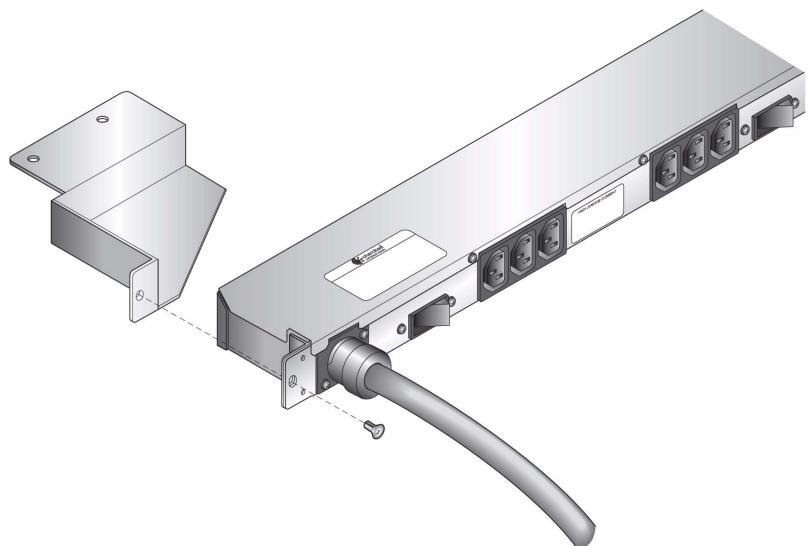
Figure Legend

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- 1 Upper PDU mounting brackets A and B
 - 2 5M x 10MM screws
 - 3 Top PDU
 - 4 Bottom PDU
-

3. Secure the lower PDU mounting bracket to the bottom of the PDU using one 5M x 10MM screw. Use the Phillips head screwdriver to tighten the screws.

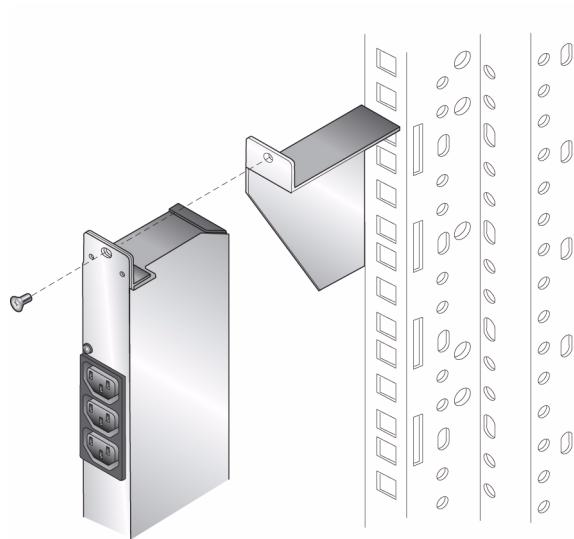
Note – By default the PDUs will be oriented such that the power cord is located at the bottom of the PDU. The power cord will be located at the top of the PDU only if a specific customer request was made to accommodate an overhead power source.

FIGURE 3 Attaching the Lower PDU Mounting Bracket to the Bottom of the PDU



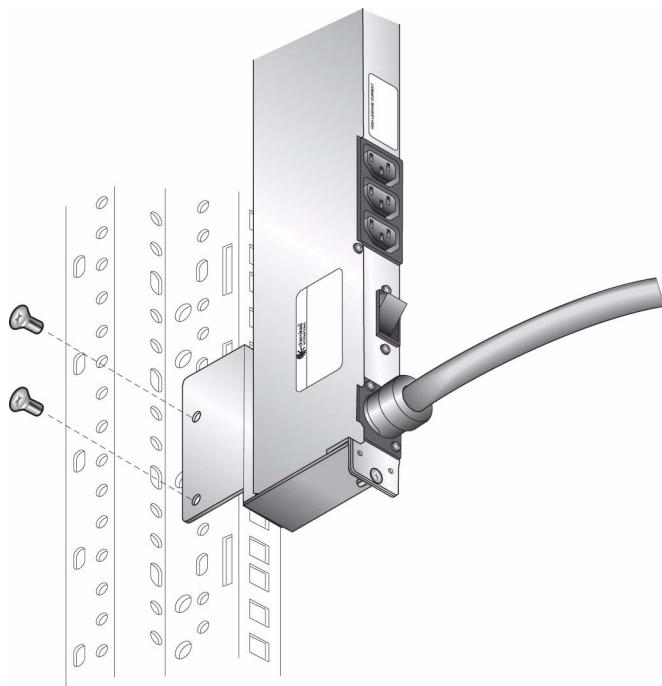
4. Secure the top of the PDU to the upper PDU mounting bracket already installed in the rack using one 5M x 10MM screw. Use the Phillips head screwdriver to tighten the screws.

FIGURE 4 Attaching the PDU to the Upper PDU Mounting Brackets



5. Mount the lower PDU mounting bracket to the outer side of the vertical rail using two 5M x 10MM screws. Use the T30 Torx wrench to tighten the screws.

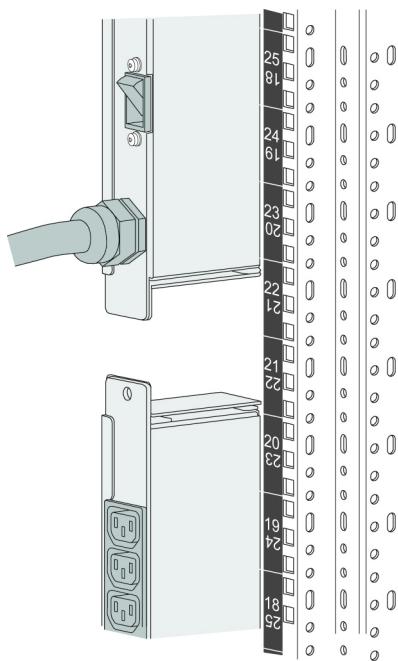
FIGURE 5 Mounting the Lower PDU Mounting Brackets to the Cabinet Rail



6. At the back of the rack, align the top of the upper PDU mounting bracket with the top edge of U20 to locate the vertical rail mounting holes you will use to install the bottom PDU.

Note – A standard mounting rack unit (RU) equals 1.75" (44.45 cm) and consists of three mounting holes in the vertical mounting rails.

FIGURE 6 Bottom PDU Placement



7. Repeat Step 2 through Step 5.
-

Connect Power to the PDUs

1. Locate the power source for the Sun Rack II cabinet and ensure that the circuit breaker for the cabinet's power source is in the Off position.
2. Locate the two power switches on the front of each PDU and ensure that they are all in the Off position.

FIGURE 7 Locating the Power Switches on the PDU

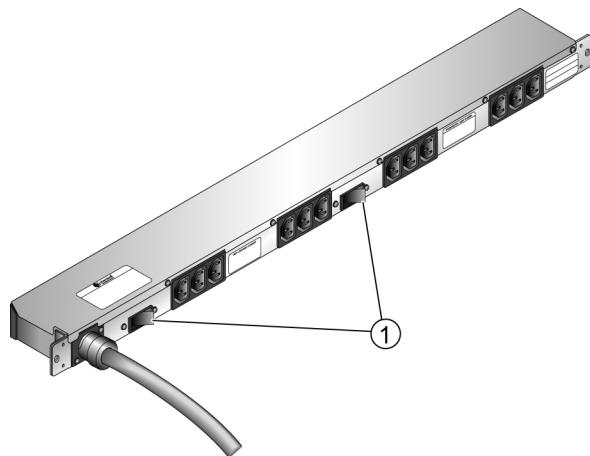


Figure Legend

1 Power switches

3. Feed the PDU power cable to the outside of the rack and insert the plug at the end of the PDU power cable into the power source for the Sun Rack II cabinet.
4. Place the circuit breaker for the cabinet's power source in the On position
5. Place the two power switches on the front of each PDU in the On position.

Related Documentation

Additional documentation you need to complete the installation is available at the Sun documentation web site:

<http://docs.sun.com/app/docs/prod/6780.array#hic>

For translated versions of the documentation, go to the <http://docs.sun.com> web site, and select your language to get the documentation.

Task	Documentation	Part Number
Review safety information	<i>Sun Storage Regulatory and Safety Compliance Manual</i> <i>Important Safety Information for Sun Hardware Systems</i>	820-5506 816-7190
Review known issues and workarounds	<i>Release Notes for Sun Storage 6580 and 6780 Arrays</i>	820-5776
Prepare the site	<i>Site Planning Guide for Sun Storage 6580 and 6780 Arrays</i>	820-5775
Install the rack	<i>Sun Rack II User's Guide</i>	820-4759
Install the array	Hardware Installation Guide for the: Sun Storage 6580 and 6780 arrays Sun StorageTek 6540 array Sun StorageTek 6140 array Sun StorageTek 2500 array family	820-5773 819-6461 819-7497 820-0015

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