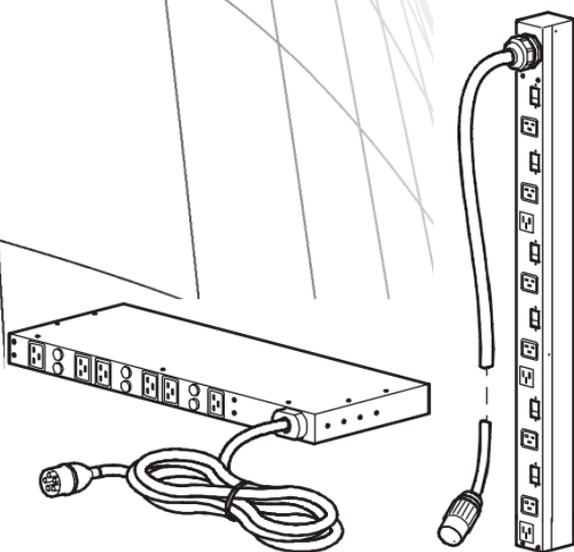


# Installation

## Basic Rack Power Distribution Unit for Blade Servers





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This manual is available in English on the enclosed CD.

Dieses Handbuch ist in Deutsch auf der beiliegenden CD-ROM verfügbar.

Este manual está disponible en español en el CD-ROM adjunto.

Ce manuel est disponible en français sur le CD-ROM ci-inclus.

Questo manuale è disponibile in italiano nel CD-ROM allegato.

本マニュアルの日本語版は同梱の CD-ROM からご覧になれます。

Instrukcja Obsługi w języku polskim jest dostępna na CD.

Данное руководство на русском языке имеется на прилагаемом компакт-диске.

O manual em Português está disponível no CD-ROM em anexo.

Bu kullanım kılavuzunun Türkçe'si, ilişikte gönderilen CD içerisinde mevcuttur.

您可以从包含的 CD 上获得本手册的中文版本。

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# Preliminary Information

## Features

This booklet provides information on installing and operating American Power Conversion (APC<sup>®</sup>) Rack Power Distribution Units (PDUs).

## Receiving inspection

Inspect the package and contents for shipping damage, and make sure that all parts were sent. Report any damage immediately to the shipping agent, and report missing contents, damage, or other problems immediately to APC or your APC reseller.

## Please recycle

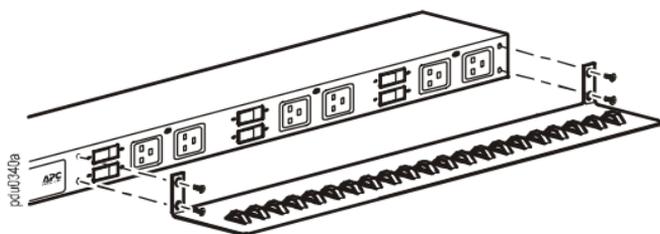


The shipping materials are recyclable. Please save them for later use, or dispose of them appropriately.

# How to Install the Rack PDU

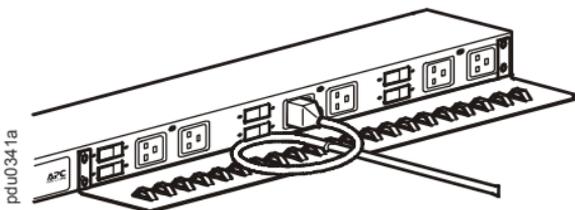
## Attach the cord retention tray

Attach the cord retention tray to the Rack PDU, using four flat-head screws (provided).



## Attach cords to the tray

Attach a cord to the tray by looping the cord and securing it to the tray, using a wire tie (provided).



**Note.** When you secure the cord to the tray, ensure that you can unplug the cord from the Rack PDU without removing the wire tie.



**Note.** When installing the Rack PDU, ensure that the power cord plug is accessible and that it is connected to a grounded outlet.

You can mount four Rack PDUs on one side of the enclosure by using the toolless mounting method.

## Mounting options

You can install the vertical 0-U Rack PDU in one of two ways: using toolless mounting pegs (provided) or mounting brackets (provided). The 1-U horizontal Rack PDU must be mounted using the horizontal mounting brackets (provided).

### Vertical mounting.

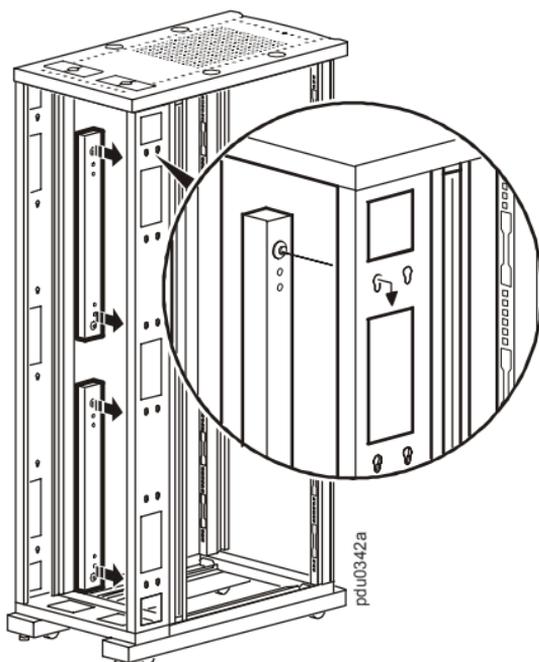
- To install the Rack PDU using the toolless mounting method, install it in the rear of the NetShelter<sup>®</sup> VX or SX Enclosure, in the cable channel directly behind the rear vertical mounting rails.
- To install the Rack PDU using the mounting brackets, install it on a vertical mounting rail on your rack or enclosure.

### Horizontal mounting.

To install the Rack PDU using the horizontal mounting brackets, install the brackets on the Rack PDU and then attach the brackets to the rack using caged nuts (provided with your enclosure).

### Toolless mounting

1. Slide both mounting pegs into the holes located in the channel in the rear panel of the enclosure.
2. Snap the Rack PDU into place by pushing it downward until it locks into position.



**Note.** You can mount four Rack PDUs on one side of the enclosure by using the toolless mounting method.

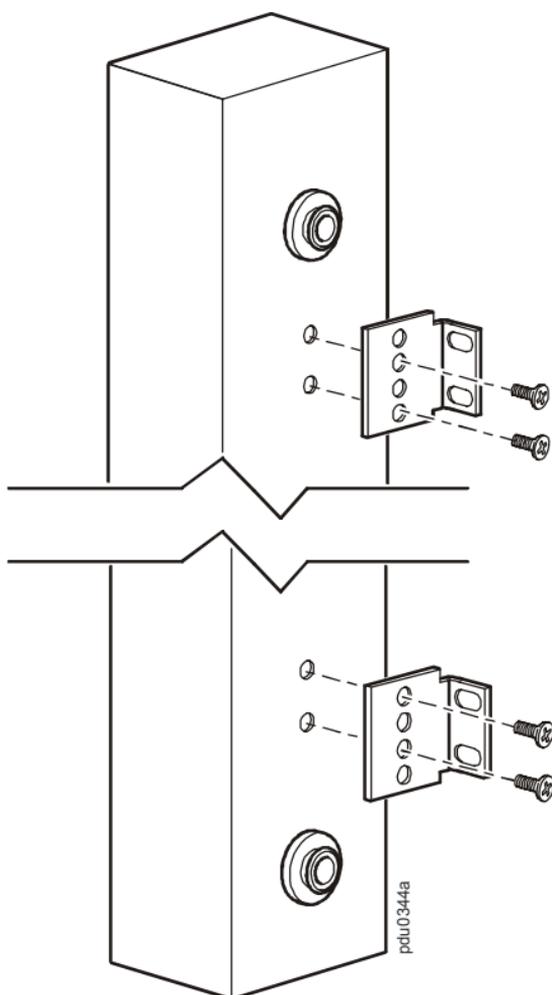
## Bracket mounting

**Vertical mounting.** To mount the Rack PDU vertically in a NetShelter or any standard EIA-310 rack or enclosure:

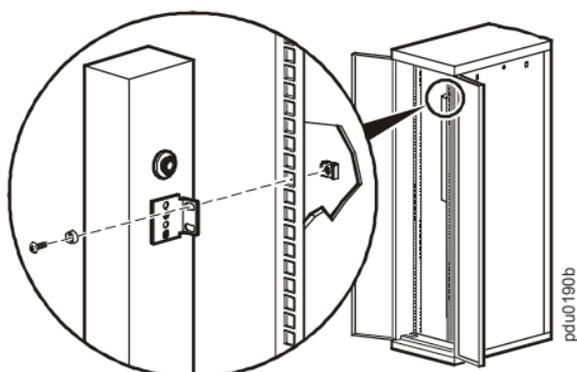
1. Attach the vertical-mounting brackets to the Rack PDU.



**Caution.** Use only the supplied screws.



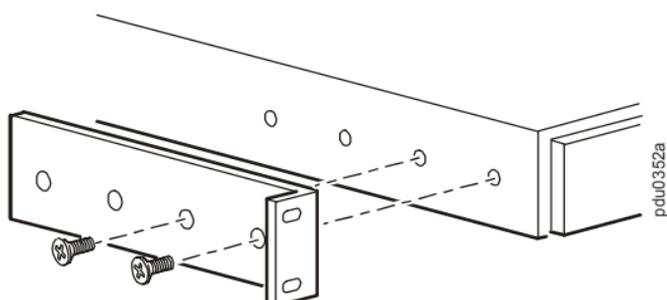
1. Install the Rack PDU on a vertical mounting rail in your rack or enclosure using the supplied screws and caged nuts.



**Note.** You can mount two Rack PDUs on one side of the enclosure by using the vertical mounting brackets.

**Horizontal mounting.** You can mount the Rack PDU in a 19-inch NetShelter enclosure or other EIA-310-D standard 19-inch rack.

1. Choose a mounting position for the Rack PDU with either the display or the rear facing out of the enclosure.
2. Attach the mounting brackets to the Rack PDU, using the flat-head screws (provided).

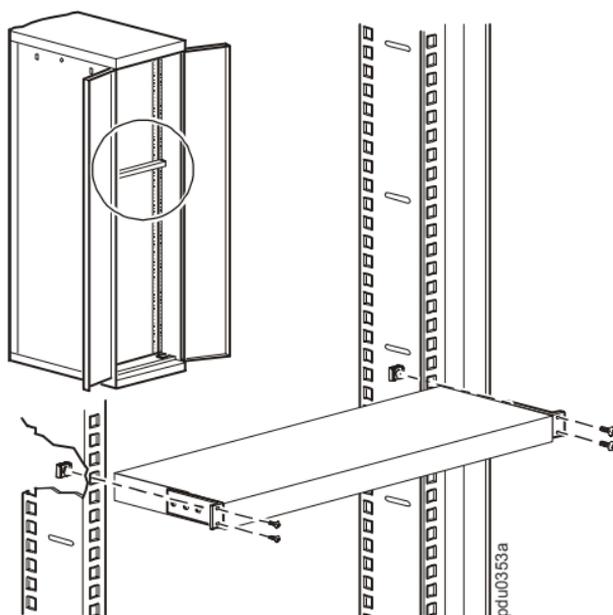


3. Choose a location for the unit:

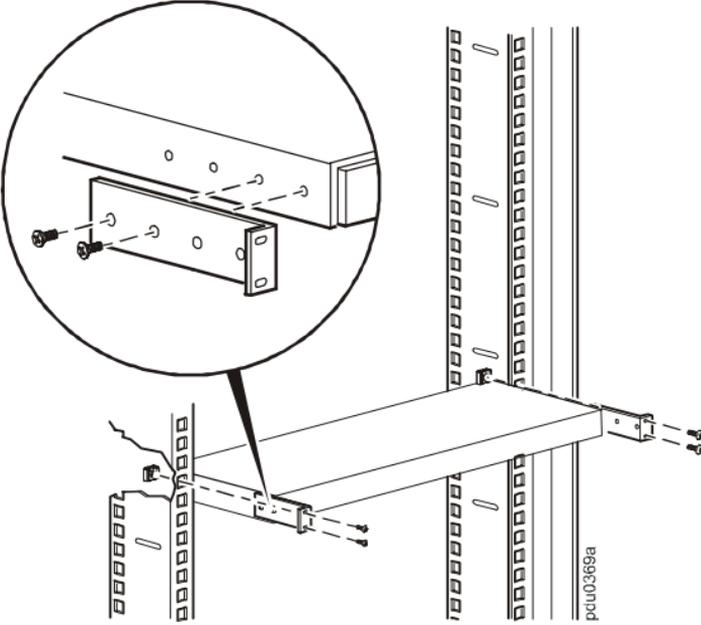


**Note.** The unit occupies one U-space. A notched hole on the enclosure's vertical rail indicates the middle of a U-space

- a. Insert a caged nut (provided with the enclosure) above and below a notched hole on each vertical mounting rail in your chosen location.
- b. Align the mounting holes of the brackets with the installed caged nuts. Insert and tighten screws.



**Recessed horizontal mounting.** You can mount the Rack PDU in a recessed configuration by attaching the brackets in alternate positions on the PDU, as shown below.



# Warranty and Service

## Limited warranty

APC warrants the Rack PDU to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

## Warranty limitations

**Except as provided herein, APC makes no warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose.** Some jurisdictions do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

**Except as provided above, in no event will APC be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product, even if advised of the possibility of such damage.**

Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise. This warranty gives you specific legal rights and you may also have other rights, which vary according to jurisdiction.

## Obtaining service

To obtain support for problems with your Rack PDU:

1. Note the serial number and date of purchase. The serial number is located on the bottom of the Rack PDU.
2. Contact Customer Support at a phone number on the back cover of this document. A technician will try to help you solve the problem by phone.
3. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty expired, you will be charged for repair or replacement.

4. Pack the unit carefully. The warranty does not cover damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.
5. Mark the RMA number clearly on the outside of the shipping carton.
6. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

# Life-Support Policy

## General policy

American Power Conversion (APC) does not recommend the use of any of its products in the following situations:

- In life-support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life-support device or to affect significantly its safety or effectiveness.
- In direct patient care.

APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

## Examples of life-support devices

The term *life-support device* includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults and infants), anesthesia ventilators, infusion pumps, and any other devices designated as “critical” by the U.S. FDA.

Hospital-grade wiring devices and leakage current protection may be ordered as options on many APC UPS systems. APC does not claim that units with these modifications are certified or listed as hospital-grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.

# APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
  - **www.apc.com** (Corporate Headquarters)  
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
  - **www.apc.com/support/**  
Global support searching APC Knowledge Base and using e-support.
- Contact an APC Customer Support center by telephone or e-mail.
  - Regional centers

Direct InfraStruXure (1)(877)537-0607  
Customer Support Line (toll free)

APC headquarters U.S., (1)(800)800-4272  
Canada (toll free)

Latin America (1)(401)789-5735  
(USA)

Europe, Middle East, (353)(91)702000  
Africa (Ireland)

Japan (0) 35434-2021

Australia, New Zealand, (61) (2) 9955 9366  
South Pacific area (Australia)

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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