

Installation Guide

Rack Power Distribution Unit

EN 990-1583B-001– 03/2026

Safety and Grounding

Read the following information before installing or operating the APC Power Distribution Unit (PDU):

- The PDU is intended only for use with four-wire grounded connections on APC Uninterruptible Power Supplies (UPSs). Do not plug the PDU into an electrical outlet or other device.
- This PDU is intended for indoor use only.
- Do not install this PDU where excessive moisture or heat is present.
- Never install any wiring, equipment, or PDUs during a lightning storm.
- Do not use extension cords or adapters with this PDU.
- Do not work alone under hazardous conditions.
- Check that the power cord, plug, and socket are in good condition.
- Disconnect the PDU from the power outlet before you install or connect equipment to reduce the risk of electric shock when you cannot verify grounding. Reconnect the PDU to the power outlet only after you make all connections.
- Install the PDU so that the power plug may be disconnected for service.
- Install the PDU so that there is not an uneven mechanical load.
- Follow the nameplate ratings when connecting equipment to the supply circuit. Do not overload the circuits. An overload condition could put your over-current protection at risk or cause problems with your supply wiring.

⚠ Caution

Electrical HAZARD

Use only the supplied hardware to attach the mounting brackets.

Failure to follow these instructions can result in injury or equipment damage.

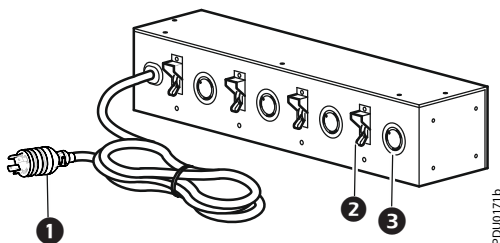
NOTICE

The Rack PDUs are to be used only with InfraStruXure Type A systems.

Inventory

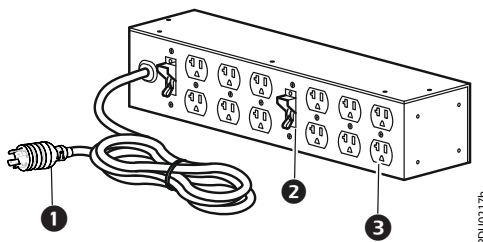
AP7580, AP7581, AP7582, AP7583, and AP7584 are 24 A Rack Power Distribution Units (PDUs) that provide 120- or 208-volt power to rack mounted equipment.

AP7580 and AP7581



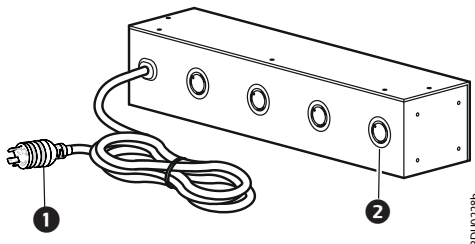
Item	Description
1	28-foot NEMA L14-30 power cord
2	Four 20-amp circuit breakers
3	AP7580: Four NEMA L5-20 outlets AP7581: Four NEMA L6-20 outlets

AP7582



Item	Description
1	28-foot NEMA L14-30 power cord
2	Two 20-amp circuit breakers
3	Twelve NEMA 5-20 outlets

AP7583 and AP7584



Item	Description
1	28-foot NEMA L14-30 power cord
2	AP7583: Four NEMA L5-30 outlets AP7584: Four NEMA L6-30 outlets

Install the PDU

Mounting options

Install the PDU in the bottom 2U of a NetShelter® or any standard 19-inch EIA-310-D rack or enclosure, using the mounting brackets (provided).

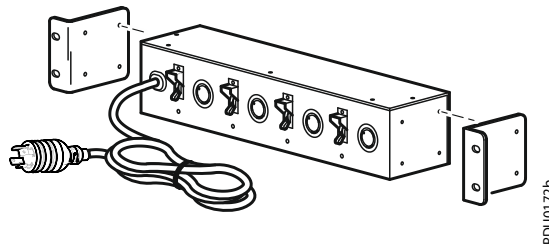
NOTICE

- The PDU can be installed in one of two ways, with the outlets facing out of the rack or toward the roof of the rack.
- The PDU is intended only for use with an APC UPS. Do not plug it into an electrical outlet or another device.

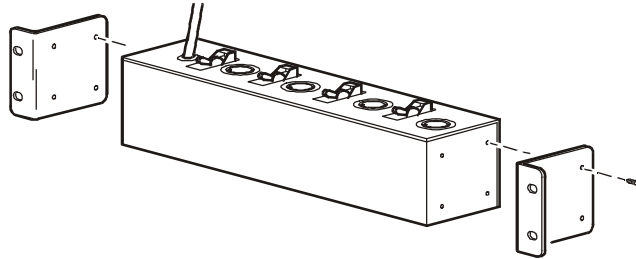
Bracket-mounting

1. Attach the mounting brackets to the PDU, using four flat-head screws per bracket (provided).

- a. To mount the PDU with the outlets facing out of the rack:

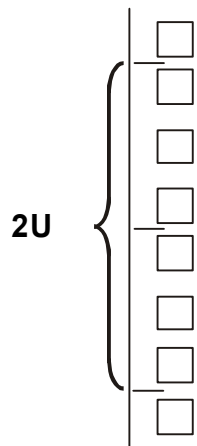


- b. To mount the PDU with the outlets facing the top of the rack:

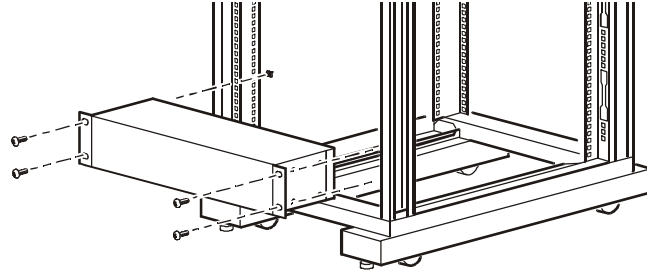


2. Choose a location for the PDU

Note: The PDU occupies two U-spaces. The numbers on the enclosure’s vertical rail denote 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 the screws.



Connect to a UPS

1. Route the power cord through one of the slots on the roof of the enclosure.
2. If necessary, route the PDU cord across a ladder connected to the enclosure to connect to an APC UPS.
3. Plug the PDU into the L14 outlet on the rear of the UPS.

Specifications

Electrical

Nominal input voltage	120 or 208 V
Input frequency	50 or 60 Hz
Input connectors	NEMA L14-30 plug
Output connectors	AP7580: Four NEMA L5-20 outlets AP7581: Four NEMA L6-20 outlets AP7582: Twelve NEMA 5-20 outlets AP7583: Four NEMA L5-30 outlets AP7584: Four NEMA L6-30 outlets
Maximum total current draw	24 A

Physical

Size (H × W × D)	3.50 × 17.20 × 3.50 in (8.89 × 43.69 × 8.89 cm)
Weight	14.0 lb (6.4 kg)
Shipping weight	16.0 lb (7.3 kg)

Environmental

Elevation (above MSL)	
Operating	0–10,000 ft (0–3000 m)
Storage	0–50,000 ft (0–15 000 m)
Temperature	
Operating	0 to 45° C (32 to 115° F)
Storage	–25 to 65° C (–13 to 149° F)
Humidity	
Operating	0–95% RH Non-condensing
Storage	0–95% RH Non-condensing

Compliance

Safety verification	UL, cUL
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