

Installation Guide

Redundant Power System and Power Bank Model RPS4000v2

The Redundant Power System and Power Bank RPS4000v2 provides power system redundancy to external devices such as NETGEAR chassis switches, managed switches, or smart switches with an RPS capability.

Each RPS4000v2 includes four power module bays, and can provide a maximum output of 4000W when four APS1000W power supply units (PSU) are installed. The RPS4000v2 can supply power to devices that support dynamic power allocation as well as to legacy devices. The RPS4000v2 acts as a redundant power system in 12 VDC context and acts as a power bank in PoE (56 VDC) context.

Package Contents

This package includes:

- Redundant Power System and Power Bank RPS4000v2
- AC power cable
- RPS cable, 60 cm (23.6 in.), 16 pin

Check the LEDs

Power system indicators are listed in the following table:

Label	Color	Activity	Description
PWR (Power)	Green	On	Power is being provided to the RPS4000v2.
Power Module Status	Green	On	An APS1000W is present and working properly.
	Yellow	On	An APS1000W is present but is not working properly.
	Off	Off	There is no APS1000W present.
RPS Port Status	Green	On	The switch supports dynamic power allocation, and the APS1000W in the corresponding RPS port and power module bay is supplying power to the switch.
		Blinking	The switch supports dynamic power allocation, but the APS1000W in the corresponding RPS port and power module bay is not supplying power to the switch. Power is being supplied by the APS1000W in a different power module bay.
	Yellow	On	The switch does not support dynamic power allocation, and the APS1000W is providing power to the switch.
		Blinking	The switch does not support dynamic power allocation, but the APS1000W is not supplying power to the switch.
Off	Off	No power is being supplied to the switch, or the switch is not recognized.	

RPS ports

Each RPS port on the RPS4000v2 can provide a maximum of 1440W at 56 VDC and 200W at 11 VDC. Output power depends on the number of power supply units (PSU) installed, and the settings of the Type selector and Current Share (CS) selector on the back panel of the RPS4000v2.

To determine the RPS type for other switches, see the hardware installation guide ,which you can download by visiting netgear.com/support/download/.

Install the RPS4000v2

Install the RPS4000v2 in a standard 19-inch rack.

WARNING: Do not stack equipment, or place equipment in tight spaces or in drawers. Be sure that your equipment is surrounded by at least 2 inches (5 cm) of air space.

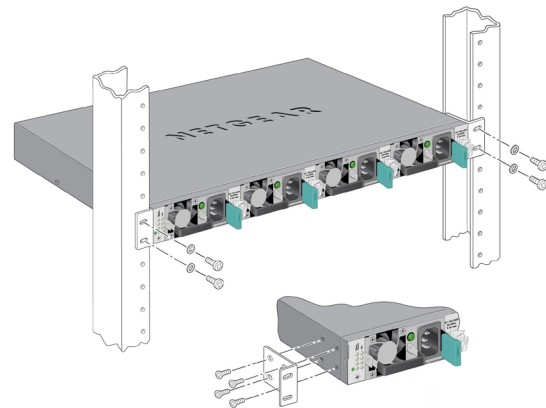
Insert a power supply unit

In models with more than one PSU, the PSUs are hot-pluggable.

1. If your switch functions with a single PSU only, disconnect the power cord from the PSU and let the switch power down.
If your switch functions with more than one PSU, you do not need to power down the switch and you can perform a hot swap.
2. Remove the PSU from the power module bay by moving the orange release latch to the left and pulling the extraction handle.
3. Insert the replacement PSU into the power module bay, and gently push the PSU into the bay until the latch locks.
CAUTION: When inserting the PSU, do not use unnecessary force. Doing so can damage the connectors on the back of the PSU and on the midplane.
4. Connect the end of the power cord to the power receptacle on the PSU.

To install the RPS4000v2:

1. Attach the supplied mounting brackets to the side of the RPS4000v2.
2. Use the provided Phillips head screws to fasten the brackets to the sides of the RPS4000v2.



3. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket.
4. Align the bracket and rack holes. Use two pan-head screws with nylon washers to fasten each bracket to the rack.
5. Tighten the screws with a No. 2 Phillips screwdriver to secure the switch in the rack.

Check the installation

Before you apply power, perform the following checks:

1. Inspect the equipment thoroughly.
2. Verify that all cables are installed correctly.
3. Check cable routing to ensure that cables are not damaged and do not create a safety hazard.
4. Be sure that all equipment is mounted properly and securely.

Connect a switch to the RPS4000v2

WARNING: To prevent an electrical hazard, make sure that the RPS AC power cord is not connected to the RPS before you install an APS1000W PSU or connect the RPS to a switch.

1. Make sure an APS1000W PSU is installed into the power module bay on the RPS4000v2.
2. Connect a switch to the corresponding RPS port.
3. Based on the RPS specification for the switch, set the position for the Type and CS selectors on the back panel of the RPS4000v2. See the *RPS4000v2 Hardware Installation Guide* for configuration instructions.
4. Connect the switch to the RPS port on the RPS4000v2 using a NETGEAR RPS cable (60 cm, 16 pin).
5. Power on the APS1000W that is connected to the switch.

Specifications

Technical Specifications	
RPS port interface	4 NTGR RPS ports, 16 pin
Power	100-240 VAC, 50-60 Hz
Dimensions (H x W x D)	1.7 x 17.32 x 16.92 in. (43 x 440 x 430 mm)
Weight	12.8 lbs (5.8 kg)
Operating temperature	0° to 50°C (32° to 104°F)
Operating humidity	90% maximum relative humidity, noncondensing
Safety agency approvals	UL, LVD, CB

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