The RPS-500p is compatible with both PoE and non-PoE switches.

Table 35: RPS-500p LED Status Definitions

Power LED	Meaning	Recommended Action
Green, solid	AC input to power supply is within specifications	None
Off	AC input power to power supply is out of specification.	1. Check AC power cord connection to the power supply. 2. Check AC power at the power outlet. 3. Swap power cord for a known good one. 4. If the problem persists, contact Extreme Networks for support.

For technical specifications, see RPS-500p Redundant Power Supply Technical Specifications on page 392.

STK-RPS-150PS Redundant Power Supply



Tip

Extreme Redundant Power Supplies (RPS) do not support the ability for the RPS to be connected to an operational switch. Connecting an RPS to an operational switch can have an adverse effect on the switch. It is best practice that both the switch and the RPS be powered down prior to cabling them together. Once the cabling is completed, turn on the RPS, then turn on the switch.

The STK-RPS-150PS is a 150 watt DC power redundant power supply for use with Extreme Networks stackable or standalone fixed switch models that do not support PoE. The STK-RPS-150PS can be used as a standalone unit, or it can be installed into a two or eight slot shelf and then mounted in a standard 19-inch rack.

The STK-RPS-150PS system is compatible with the following switch models:

- X440-G2-24t-10GE4 switch
- X440-G2-24x-10GE4 switch
- X440-G2-48t-10GE4 switch
- X440-G2-24t-10GE4-DC switch
- X440-G2-48t-10GE4-DC switch
- X440-G2-12t8fx-GE4 switch
- X440-G2-24fx-GE4 switch
- X440-G2-24t-GE4 switch
- X450-G2-24t-GE4 switch
- X450-G2-24t-10GE4 switch
- X450-G2-48t-GE4 switch
- X450-G2-48t-10GE4 switch

- X620-8t-2x switch
- X620-10x switch

Table 36: STK-RPS-150PS LED Status Definitions

Power LED	Meaning	Recommended Action
Green, solid	AC input to power supply is within specifications	None
Off	AC input power to power supply is out of specification.	1. Check AC power cord connection to the power supply. 2. Check AC power at the power outlet. 3. Swap power cord for a known good one. 4. If the problem persists, contact Extreme Networks for support.

For technical specifications, see STK-RPS-150PS and RPS Shelves Technical Specifications on page 393.

STK-RPS-1005PS Redundant Power Supply



Tip

Extreme Redundant Power Supplies (RPS) do not support the ability for the RPS to be connected to an operational switch. Connecting an RPS to an operational switch can have an adverse effect on the switch. It is best practice that both the switch and the RPS be powered down prior to cabling them together. Once the cabling is completed, turn on the RPS, then turn on the switch.

The STK-RPS-1005PS provides load sharing, backup, or additive PoE power to some Extreme Networks 802.3at PoE-compliant stackable switch models. If the switch loses power from its internal power supply, the STK-RPS-1005PS can provide up to 1005 W maximum operating power (180 W system power and 740 W PoE power) to support switch operation and the 55 VDC necessary to support 55 VDC/data connections to powered devices.

The power supply ships with the following:

- RPS cable
- Four rubber feet (for flat surface installation)

The STK-RPS-1005PS is compatible with the ExtremeSwitching X440-G2-48p-10GE4 switch.

To install an STK-RPS-150PS in an RPS shelf, see Installing an STK-RPS-150PS in an RPS Shelf on page 248.

Required Tools

A flat-blade screwdriver is required to install the STK-RPS-150CH2 or STK-RPS-150CH8 shelf and STK-RPS-150PS power supplies.

Unpacking the Shelf and Power Supply

The shelf and the power supply are shipped separately. To unpack them, follow these steps:

1. Open the box and remove the packing material protecting the shelf or power supply.
2. Verify that the unit your ordered and a quick reference guide is included in the package.
3. Perform a visual inspection of the contents for any signs of physical damage. Contact Extreme Networks if there are any signs of damage.

Installing an STK-RPS-150PS in an RPS Shelf

Caution
Observe all ESD precautions when handling sensitive electronic equipment.

On the STK-RPS-150CH8 shelf, a cover plate will be in place over each power-supply slot.

To install the power supplies:

1. Place the RPS shelf on a sturdy flat surface where you plan to install power supplies.
2. Align the power supply with one of the slots, then slide the power supply forward until its front panel is flush against the RPS shelf front panel.

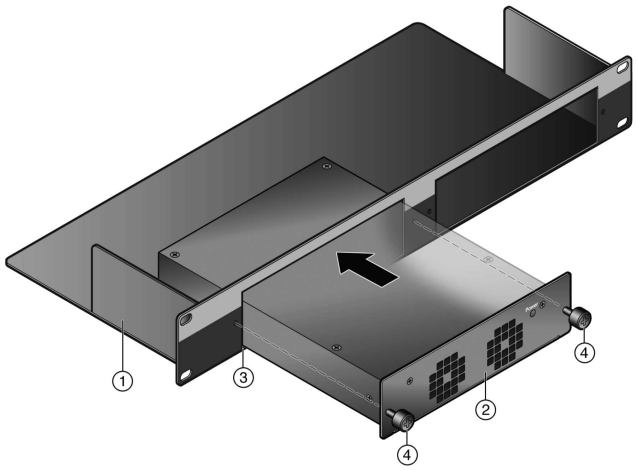


Figure 188: STK-RPS-150PS Installation in an STK-RPS-150CH2 Shelf

1 = STK-RPS-150CH2 shelf	3 = Shelf power supply slot
2 = STK-RPS-150PS power supply	4 = Captive screws (2)

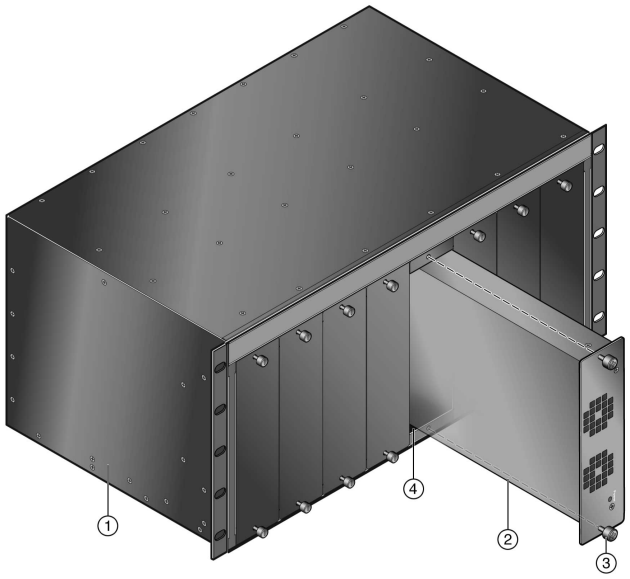


Figure 189: STK-RPS-150PS Installation in an STK-RPS-150CH8 Shelf

1 = STK-RPS-150CH8 shelf	3 = Captive screws (2)
2 = STK-RPS-150PS power supply	4 = Shelf power supply slot

3. Fasten the power supply to the RPS shelf using the captive screws on the PSM front panel.
4. Repeat the two previous steps for each additional power supply.
5. Proceed to Installing the RPS Shelf into the Rack on page 249.

Installing the RPS Shelf into the Rack

To install an STK-RPS-150CH2 or STK-RPS-150CH8 into a 19-inch (48.3 cm) rack, you need the following:

- For the STK-RPS-150CH2: four customer-supplied screws to fasten the shelf to the rack rails.
- For the STK-RPS-150CH8: ten customer-supplied screws to fasten the shelf to the rack rails.

After installing the power supplies as described in Installing an STK-RPS-150PS in an RPS Shelf on page 248, rack mount the RPS shelf as follows:

1. Refer to the installation guidelines (Guidelines for Rack Mount Installation).
2. Install the RPS shelf into the rack (Rack Mounting the RPS Shelf on page 250).
3. Connect the RPS cables and AC power cords of the power supplies (Connecting the RPS Cable and AC Power Cord on page 251).

Guidelines for Rack Mount Installation

The installation site must be within reach of the network cabling and meet the requirements listed below:

- Shelf placement must be close enough to connect the 6.6-foot (2-meter) AC power cords from the power supplies to the AC power source.
- One or two three-pronged power receptacles capable of delivering the current and voltage specified in STK-RPS-150PS and RPS Shelves Technical Specifications on page 393. One or two AC outlets on

independently-fused circuits must be within 6 feet (1.8 meters) from the installation site. If there is an AC power source failure, this will prevent the powering down of redundant power supplies due to a single source power failure.

- Power cords and type of outlet are dependent on the country. In the United States, one power cord with an NEMA 5-15P plug is provided with each STK-RPS-150PS.
- An ambient temperature of between 32°F (0°C) and 122°F (50°C) must be maintained at the installation site with fluctuations of less than 18°F (10°C) per hour.

Caution
To ensure proper ventilation and prevent overheating, leave a minimum clearance space of 3 inches (7.6 cm) at the front and rear of the unit.

Warning
Before installing the shelf into a rack, ensure that the rack can support the device(s) without compromising the stability of the rack. Otherwise, personal injury and/or equipment damage may result.

Rack Mounting the RPS Shelf

To install the RPS shelf into a 19-inch (48.3 cm) rack:

1. Position the RPS shelf between the vertical rails and align the mounting holes in the RPS shelf brackets with those in the rack frame.
2. Fasten the RPS shelf securely to the rails using the customer-supplied mounting screws (four for the STK-RPS-150CH2, ten for the STK-RPS-150CH8).

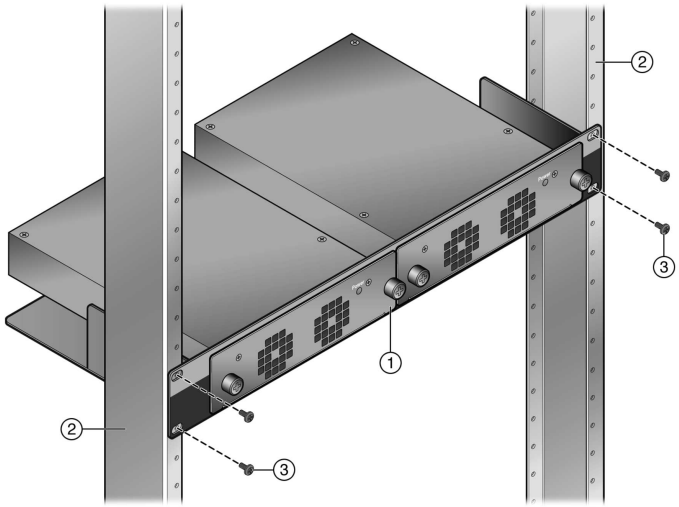


Figure 190: Fastening the STK-RPS-150CH2 to the Rack

1 = STK-RPS-150CH2 shelf	3 = Mounting screws
2 = Rails of rack	

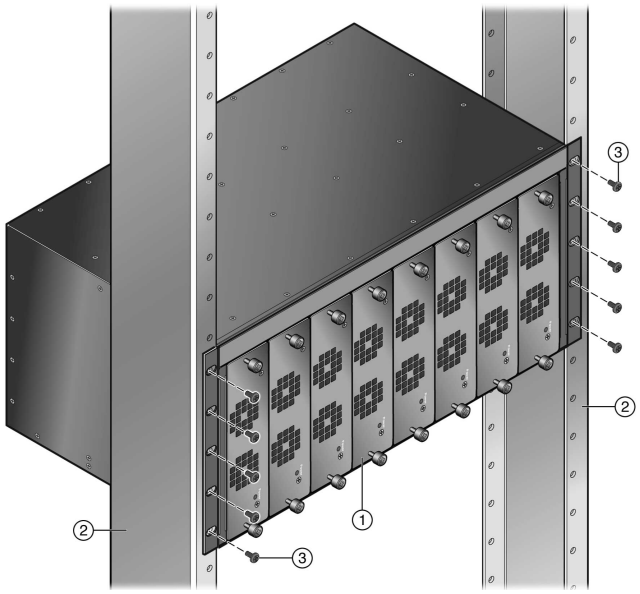


Figure 191: Fastening the STK-RPS-150CH8 to the Rack

1 = STK-RPS-150CH8 shelf	3 = Mounting screws
2 = Rails of rack	

Connecting the RPS Cable and AC Power Cord

Important
When performing this task, observe all of the precautions listen in Safety Considerations for Installing Power Supplies on page 230.

The redundant power supply is connected to a switch using a 1-meter RPS cable.

To connect a redundant power supply, proceed as follows:

Note
No change in switch configuration is necessary for this installation.

1. Connect one end of the RPS cable to the redundant power supply connector at the rear of the RPS. Then connect the other end of the cable to the redundant power supply connector on the switch.

   See the following figures.

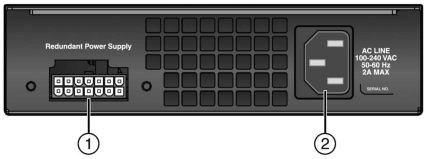


Figure 192: Power Connectors on STK-RPS-150PS (rear view)

- STK-RPS-150CH8, an eight-slot shelf

STK-RPS-150PS Specifications

Table 290: Physical Specifications

Dimensions	7.7 H x 2.04 W x 10.1 D (in.) 19.6 H x 5.2 W x 25.7 D (cm)
Unpackaged Weight	3.85 lb (1.75 kg)

Table 291: Power Specifications

AC input frequency range	50 to 60 Hz
AC input voltage range	100-240 VAC
Output Voltage	12VDC
Output Current	1.0 A min., 8.5 A or 13.0 A max.

Table 292: Environmental Specifications

Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-40°C to 70°C (32°F to 122°F)
Operating humidity	5% to 95% (non-condensing)

STK-RPS-150CH2 Specifications

Table 293: Physical Specifications

Dimensions without mounting brackets	5.5 H x 44.0 W x 18.0 D (cm) 2.2 H x 17.3 W x 7.0 D (in.)
Unpackaged Weight	2.09 lb (0.95 kg)

STK-RPS-150CH8 Specifications

Table 294: Physical Specifications

Dimensions without mounting brackets	22.26 H x 44.0 W x 26.4 D (cm) 8.77 H x 17.3 W x 10.4 D (in.)
Unpackaged Weight	11.6 lb (5.27 kg)

STK-RPS-150PS Connector Pin Locations

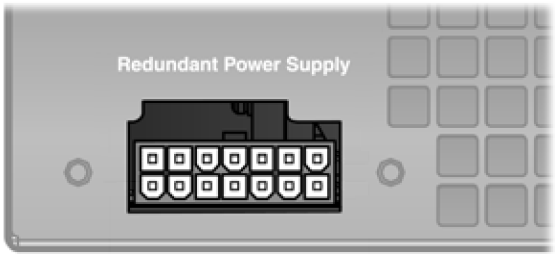


Figure 255: STK-RPS-150PS Connector Pin Locations

Table 295: STK-RPS-150PS Connector Pin Functions

Pin	Function	Pin	Function
1	- 50 V return	8	Ground
2	- 50 VDC	9	No connection
3	12 VDC output	10	RPS present
4	12 VDC output	11	Status 1
5	12 VDC output	12	Status 2
6	12 VDC output	13	Power good
7	Ground	14	Ground

STK-RPS-1005PS Redundant Power Supply Technical Specifications

The following tables list the specifications for the 1005 W PoE+ Redundant Power supply unit (model STK-RPS-1005PS) .

Table 296: Physical Specifications

Dimensions	4.3 H x 15.4 W x 34.0 D (cm) 1.7 H x 6.1 W x 13.4 D (in.)
Weight (unit only)	2.1 kg (4.6 lb)
Weight (unit and packaging)	3.5 kg (7.8 lb)

Table 297: Power Specifications

AC input frequency range	50/60 Hz
AC input voltage range	115-230 VAC
AC input current	12 A maximum at 115 VAC, 60 Hz 6.0 A maximum at 230 VAC, 50 Hz