Power Supply Installation

This chapter applies only to the Catalyst 2960-XR switches. It contains these topics:

Power Supply Module Overview

The switch operates with either one or two active power supply modules. You can use two AC modules, or one module and a blank cover.

Note The Catalyst 2960XR-48FPD-I and 2960XR-48FPS-I only support the PWR-C2-1025WAC power supply. You cannot use the PWR-C2-250WAC and PWR-C2-640WAC power supplies in these switches.

Table 1: Power Supply Model Numbers and Description

Part Number	Description
PWR-C2-250WAC=	250-W AC power supply module
PWR-C2-640WAC=	640-W AC power supply module
PWR-C2-1025WAC=	1025-W AC power supply module

The 250-W and 640-W AC power supply modules are autoranging units that support input voltages between 100 and 240 VAC. The 1025-W power supply module is an autoranging unit that supports input voltages between 115 and 240 VAC. All power supply modules have internal fans. All switches ship with a blank cover in the second power supply slot.
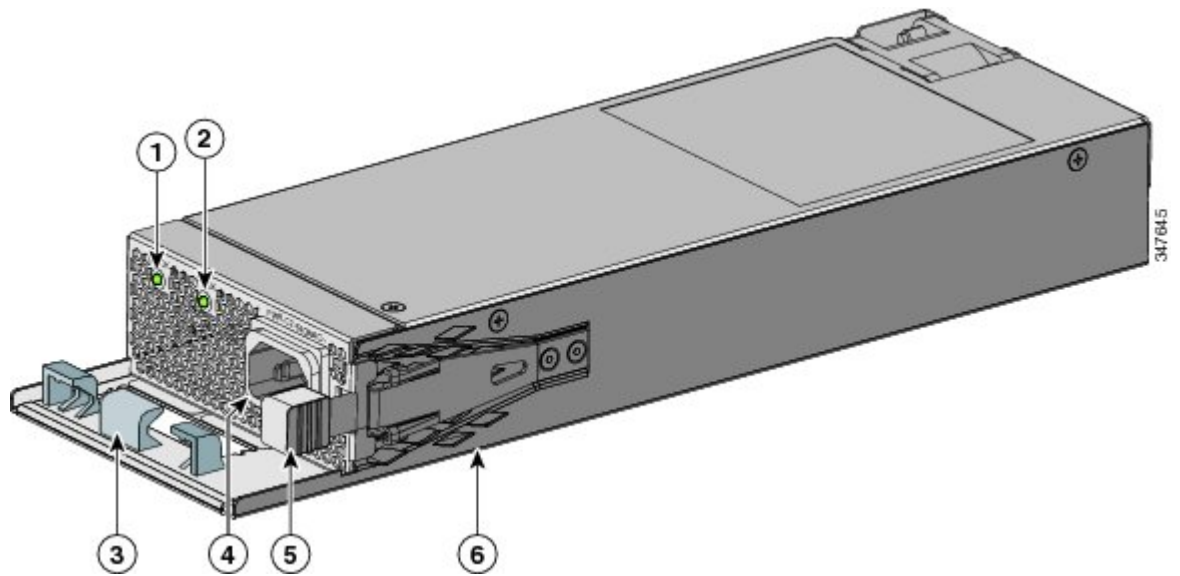
Each AC power supply module has a power cord for connection to an AC power outlet.
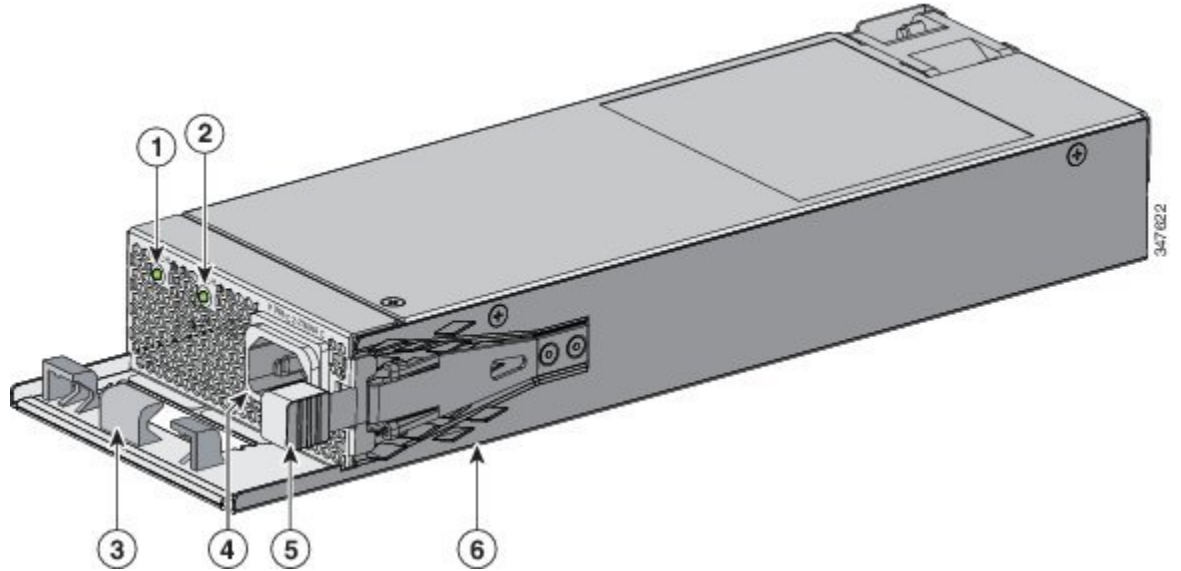
Figure 1: PWR-C2-1025WAC Power Supply
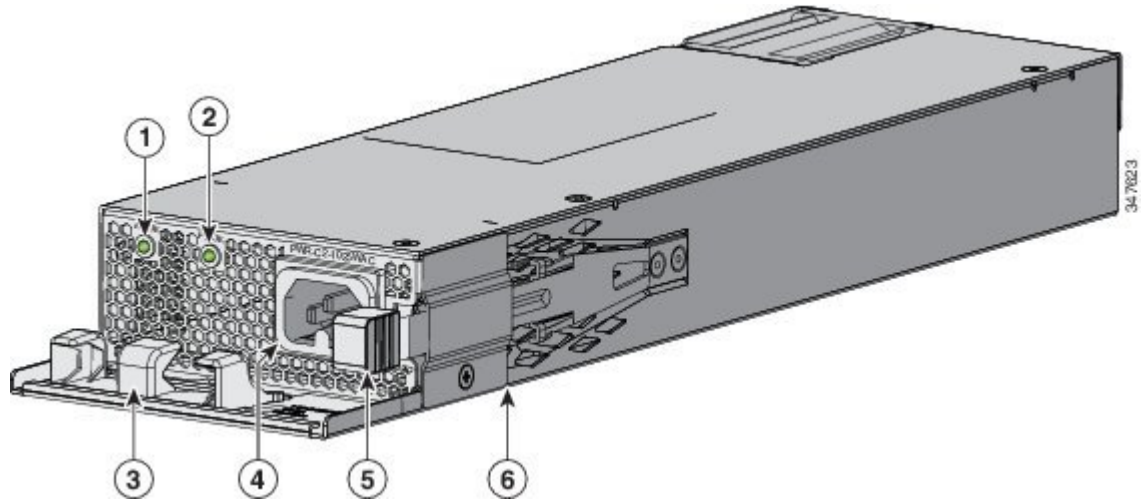
1	AC OK LED	4	AC power cord connector
2	PS OK LED	5	Release latch
3	AC power cord retainer	6	Power supply

Figure 2: PWR-C2-640WAC Power Supply

1	AC OK LED	4	AC power cord connector
2	PS OK LED	5	Release latch
3	AC power cord retainer	6	Power supply

Figure 3: PWR-C2-250WAC Power Supply

1	AC OK LED	4	AC power cord connector
2	PS OK LED	5	Release latch
3	AC power cord retainer	6	Power supply

If no power supply is installed in a power supply slot, install a power supply slot cover.

Figure 4: Power Supply Slot Cover
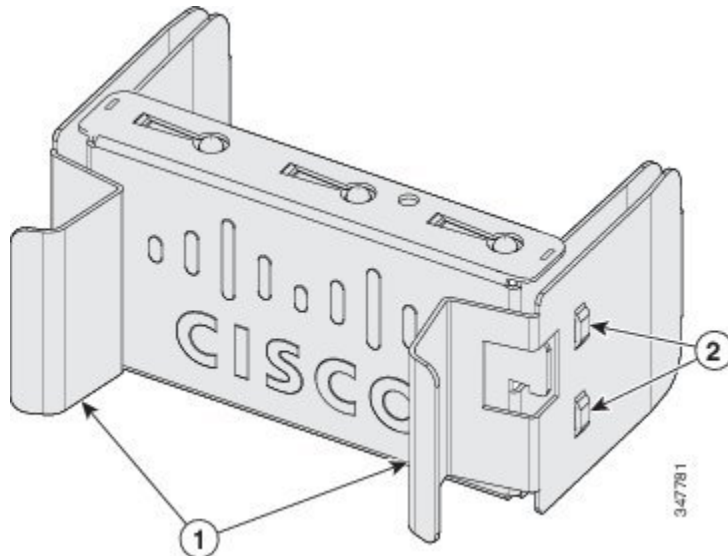
1	Release handles	2	Retainer clips

The power supply modules have two status LEDs.

AC OK	Description	PS OK	Description
Off (AC LED is off)	No AC input power.	Off	Output is disabled, or input is outside operating range.
Green	AC input power is present.	Green	Power output to switch.
		Red	Output has failed.

Installation Guidelines

Observe these guidelines when removing or installing a power supply module:

- Do not force the power supply module into the slot. This can damage the pins on the switch if they are not aligned with the module.

- A power supply that is only partially connected to the switch can disrupt the system operation.

- Remove power from the power-supply module before removing or installing the module.

- The power supply is hot-swappable.

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Caution   Do not operate the switch with one power-supply module slot empty. For proper chassis cooling, both module slots must be populated, with either a power supply or a blank module.

⚠

Warning   Blank faceplates and cover panels serve three important functions: they prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place. Statement 1024

⚠

Warning   Do not reach into a vacant slot or chassis while you install or remove a module. Exposed circuitry could constitute an energy hazard. Statement 206

⚠

Warning   Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030

⚠

Warning   If a Cisco external power system is not connected to the switch, install the provided connector cover on the back of the switch. Statement 386

# Installing or Replacing an AC Power Supply

Procedure

Step 1   Turn off the power at its source.

Step 2   Remove the power cord from the power cord retainer.

Step 3   Remove the power cord from the power connector.

Step 4   Press the release latch at the right side of the power supply module inward and slide the power supply out.

> **Note**   Do not leave the power-supply slot open for more than 90 seconds while the switch is operating.

> **Warning**   This unit might have more than one power supply connection. All connections must be removed to de-energize the unit. Statement 1028

Step 5   Insert the new power supply into the power-supply slot, and gently push it into the slot. When correctly inserted, the 250-W and 640-W power supplies (excluding the power cord retainer) are flush with the switch rear panel. The 1025-W power-supply module extends inches from the switch rear panel.

Figure 5: Inserting the AC-Power Supply in the Switch
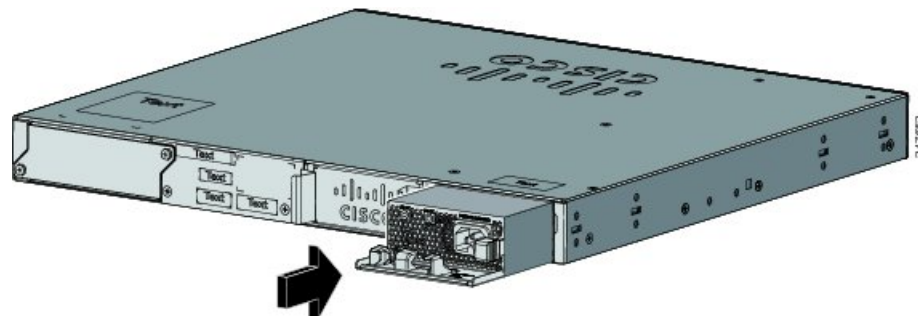
Step 6   (Optional) Make a loop in the power cord and thread it through the power cord retainer.

Figure 6: AC-Power Supply with Power Cord Retainer
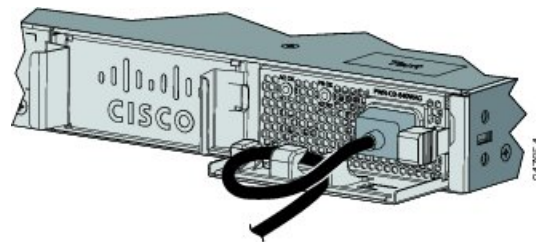
Step 7   Connect the power cord to the power supply and to an AC power outlet. Turn on the power at the power source.

Step 8   Confirm that the power supply AC OK and PS OK LEDs are green.

Step 9   Repeat the steps to install a second power supply.

Note When you install the second power supply the LEDs on the power supply might blink momentarily.

Finding the Serial Number

If you contact Cisco Technical Assistance, you need to know the switch serial number. You can also use the **show version** privileged EXEC command to see the switch serial number.
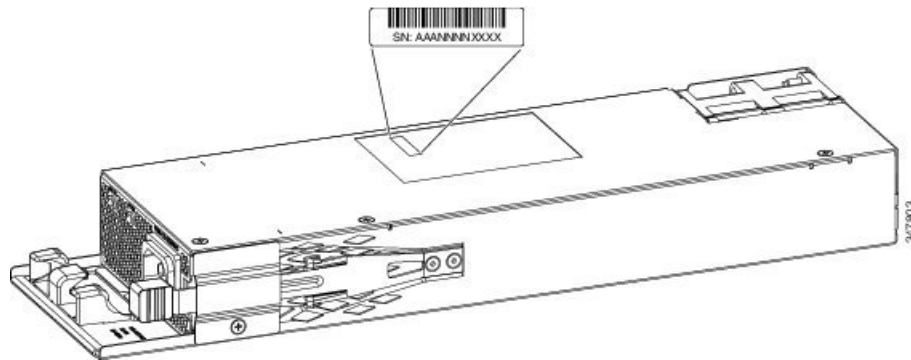
Figure 7: 1025-W AC Power Supply Serial Number

Figure 8: 250-W and 640-W AC Power Supply Serial Number