

Replace Chassis Components

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Replace Fan Modules

Note Fan modules can be replaced only on the Cisco 8011-32Y8L2H2FH Router.

Caution If you cannot replace a fan module (FAN-1RU-PI-V3) within three minutes, we recommend that you leave it in the chassis until you are prepared to replace it within that specified time limit.

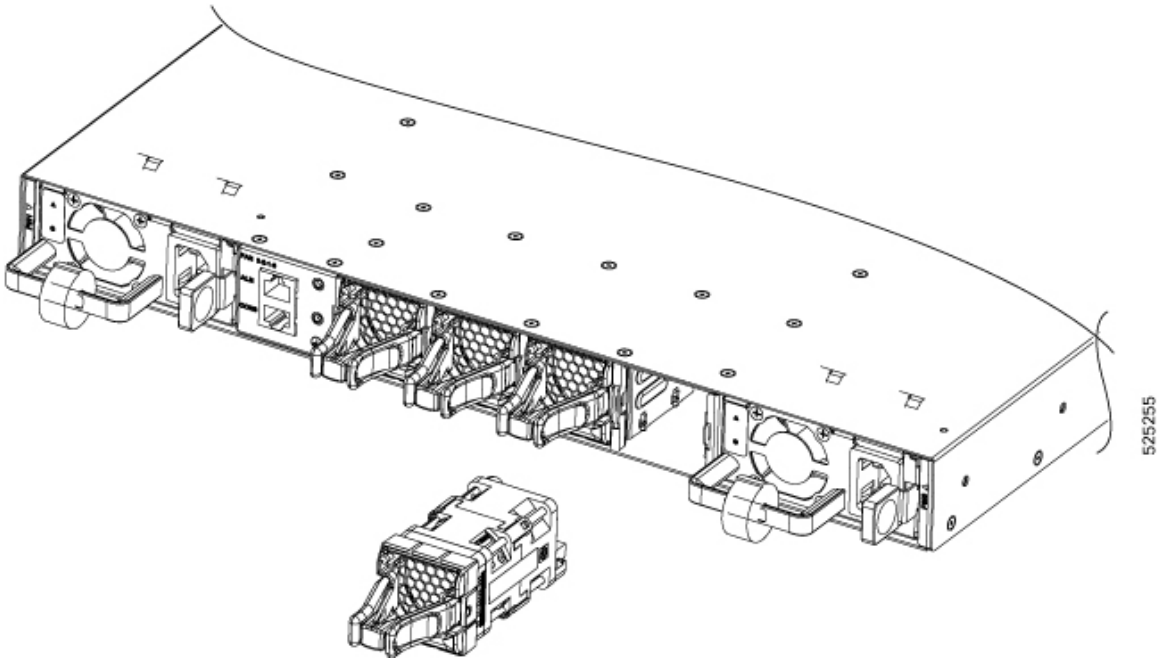
Note If you remove more than one fan module at a time during operations, the router allows up to 2 minutes of operations before shutting down, unless you replace extra missing fan modules within that time. If the router senses an over temperature condition when multiple fan modules are removed, the shutdown can occur in less than 2 minutes.

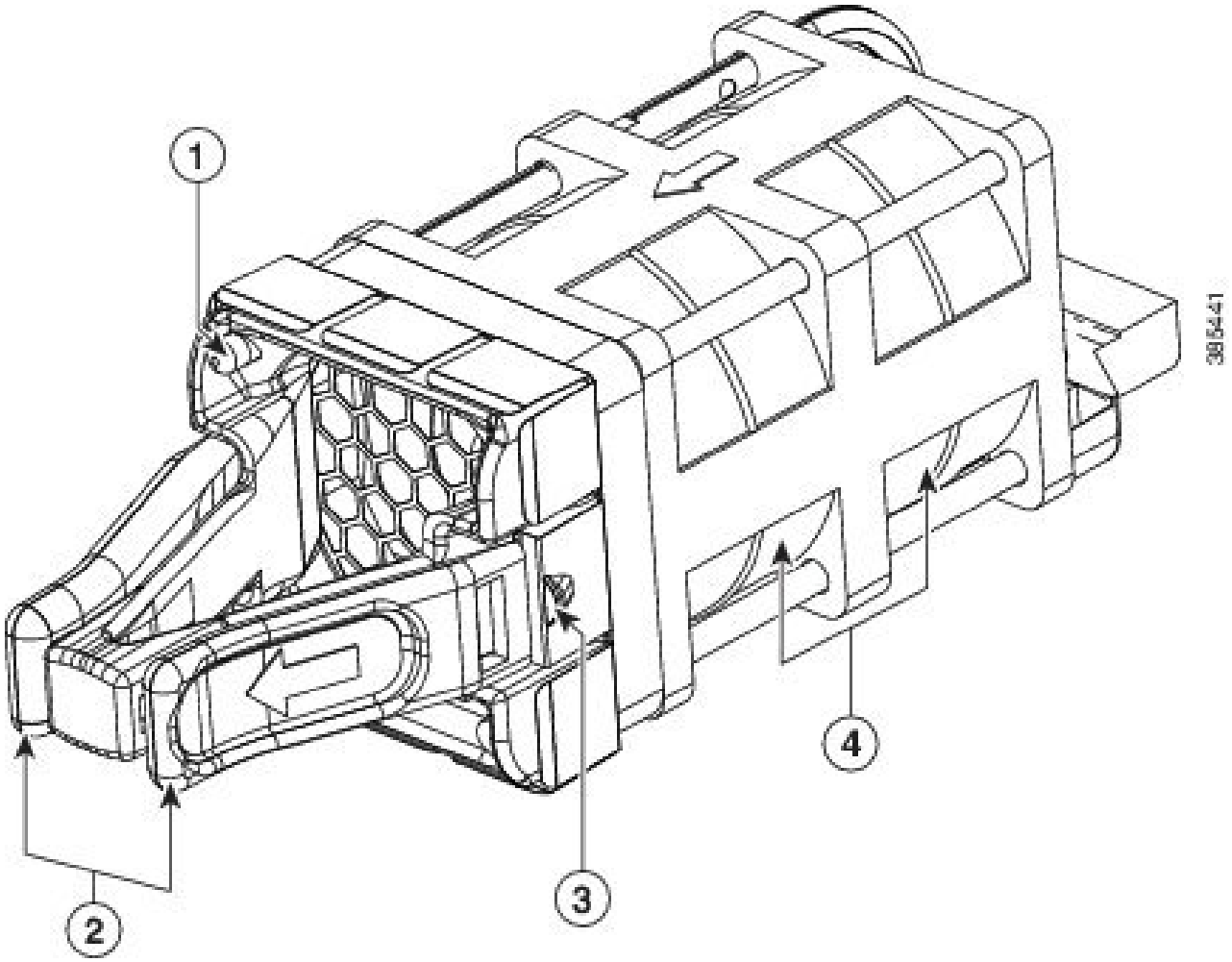
Procedure

Step 1 Press both the latches on the fan module to disengage the fan module connection from the chassis.

Step 2 Simultaneously press the latches, and pull the fan module fully out of the chassis.

Figure 1: Remove fan module from the Cisco 8011-32Y8L2H2FH chassis





1	Fan LED	3	Fan assembly retention latch
2	Fan ssembly levers	4	Fan

Replace Power Supply

The Cisco 8010 Large Density Routers provide a choice of two different power supplies as AC and DC.

Cisco 8011-4G24Y4H-I Router

The router also supports a combination of AC (PWR-400-AC) and DC (PWR-400-DC) PSUs together:

- DC power (PWR-400-DC)—The DC power supply uses two-position terminal block-style connector with positive latching or securing, and labeled connections for + 48V and -48V. The terminal block connector is of suitable size to carry the appropriate AWG wire size to handle the input current of the power supply. No ON/OFF switch is provided.

- AC power (PWR-400-AC)—The AC power supply has an IEC 320-type power receptacle and a 16 Amp service connector. You can use standard right angle power cords with the AC power supply. The power supply includes a power cord retainer. No ON/OFF switch is provided.

Cisco 8011-32Y8L2H2FH Router

The router also supports a combination of AC (PWR-650-AC-R) and DC (PWR-930-DC-R) PSUs together:

- DC power (PWR-930-DC-R)—The DC power supply uses two-position terminal block-style connector with positive latching or securing, and labeled connections for + 48V and -48V. The terminal block connector is of suitable size to carry the appropriate AWG wire size to handle the input current of the power supply. No ON/OFF switch is provided.
- AC power (PWR-650-AC-R)—The AC power supply has an IEC 320-type power receptacle and a 16 Amp service connector. You can use standard right angle power cords with the AC power supply. The power supply includes a power cord retainer. No ON/OFF switch is provided.

You can install dual power supplies for redundancy.

Note Products that have an AC power connection are required to have an external SPD provided as part of the building installation to comply with the Telcordia GR-1089 NEBS standard for electromagnetic compatibility and safety.

Caution Don’t use interface module and power supply ejector handles to lift the chassis; using the handles to lift the chassis can deform or damage the handles.

PSU Redundancy Lost Alarm:

PSU redundancy lost alarms are generated when there’s no proper input feed applied on any one of Power Modules (PMs) (PM0 or PM1). The alarms are also generated when the output for PM0 or PM1 isn’t proper.

The following alarms are raised for PSU redundancy lost event with a faulty PM0:

- Power Module Generic Fault
- Power Module Error
- Power Group Redundancy Lost

Replace DC Power Supply Modules

Remove the DC Power Supply Module

This section provides information about removing and replacing the DC power supply.

Warning **Statement 1003—**DC Power Disconnection

To reduce risk of electric shock or personal injury, disconnect DC power before removing or replacing components or performing upgrades.

Procedure

Step 1 Before servicing the power supply, switch off the circuit breaker in your equipment area. As an additional precaution, tape the circuit-breaker switch in the Off position.

Step 2 Slip on the ESD-preventive wrist strap that is included in the accessory kit.

Step 3 Switch the power supply circuit-breaker switch to the Off (O) position.

Step 4 Pull the terminal block plug cover out of the terminal block head in the power supply.

Step 5 Unscrew the terminal block screws and remove the cables.

Step 6 Grasp the power supply handle. Press the power supply lock towards the left and simultaneously pull the power supply out from the chassis while supporting it with the other hand.

Install the DC Power Supply Module

This equipment is suitable for installation in network telecommunications facilities and locations where the NEC applies.

This equipment is suitable for installations utilizing the Common Bonding Network (CBN).

The grounding architecture of this product is DC-Isolated (DC-I) for DC-powered products. DC-powered products have a nominal operating DC voltage of 48 VDC.

Perform the following procedure to install the power supply module:

Procedure

Step 1 Ensure that the system (earth) ground connection is made. (See the following figure.)

Step 2 If necessary, remove the blank power supply filler plate from the chassis power supply bay opening by loosening the captive installation screws.

Step 3 Verify that power to the DC circuit connected to the power supply you are installing is turned off. To ensure that power has been removed from the DC circuits, locate the circuit breakers for the DC circuits, switch the circuit breakers to the OFF position, and tape the circuit-breaker switches in the OFF position.

Step 4 Grasp the power supply handle with one hand. Place your other hand underneath the power supply. Slide the power supply into the power supply bay. Make sure that the power supply is fully seated in the bay.

Figure 2: Cisco 8011-4G24Y4H-I — Install DC Power Supply Module

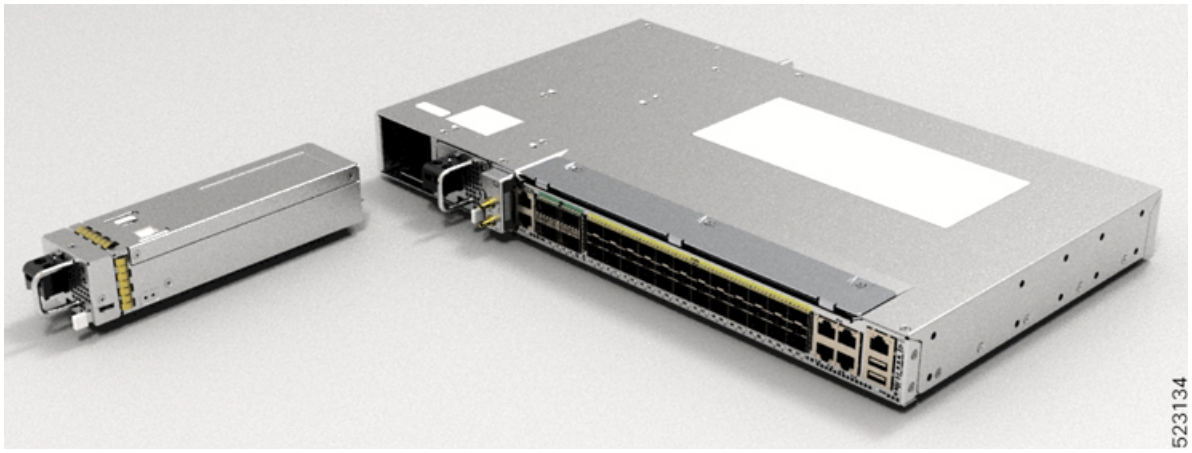
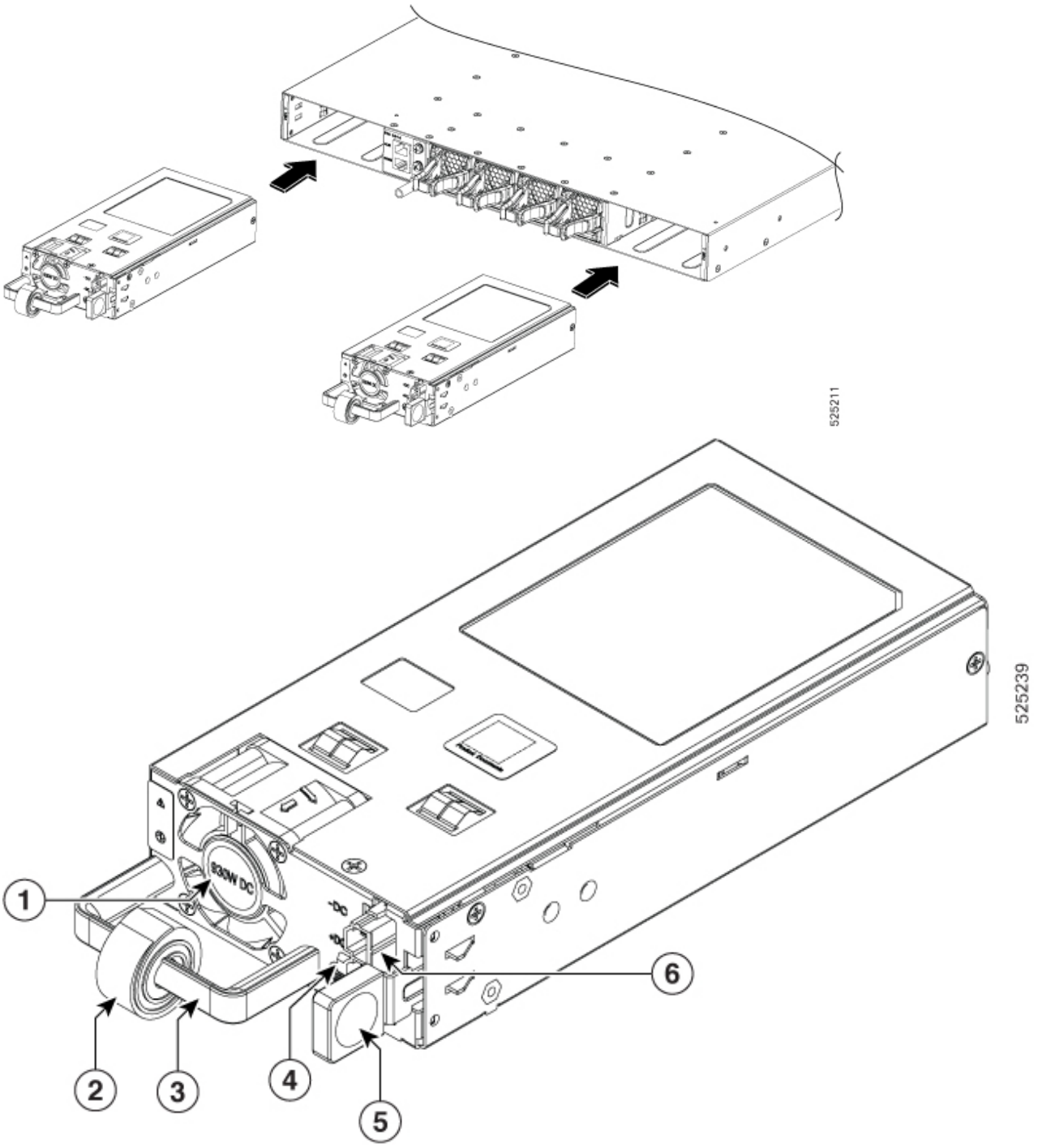


Figure 3: Cisco 8011-32Y8L2H2FH — Install DC Power Supply Module



1	PSU fan	2	Power cord retainer
3	Release handle	4	DC+ connector

5	Release latch	6	DC- connector

Replace AC Power Supply Modules

Remove the AC Power Supply Module

Before you begin

This section describes how to remove and replace the AC power supply.



Warning **Statement 1046—**Installing or Replacing the Unit

To reduce risk of electric shock, when installing or replacing the unit, the ground connection must always be made first and disconnected last.

If your unit has modules, secure them with the provided screws.



Warning **Statement 1074—**Comply with Local and National Electrical Codes

To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

To remove and replace the AC power supply:

Procedure

Step 1 Disconnect the power cord from the power source. Do not touch any metal on the power cord when it is still connected to the power supply.

Step 2 Loosen the tie and remove the power cord from the tie-and holder.

Step 3 Remove the power cord from the power connection on the power supply. Do not touch the metal prongs embedded in the power supply.

Step 4 Grasp the power supply handle. Press the power supply lock towards the left and simultaneously pull the power supply out from the chassis while supporting it with the other hand.

Install the AC Power Supply Module

Follow these steps to install the AC power supply module:

Procedure

Step 1 Ensure that the system (earth) ground connection is made.

Step 2 If necessary, remove the blank power supply filler plate from the chassis power supply bay opening by loosening the captive installation screws.

Step 3 Grasp the power supply handle with one hand. Place your other hand underneath the power supply. Slide the power supply into the power supply bay. Make sure that the power supply is fully seated in the bay. (See the following figure.)

Figure 4: Cisco 8011-4G24Y4H-I — Install AC Power Supply Module

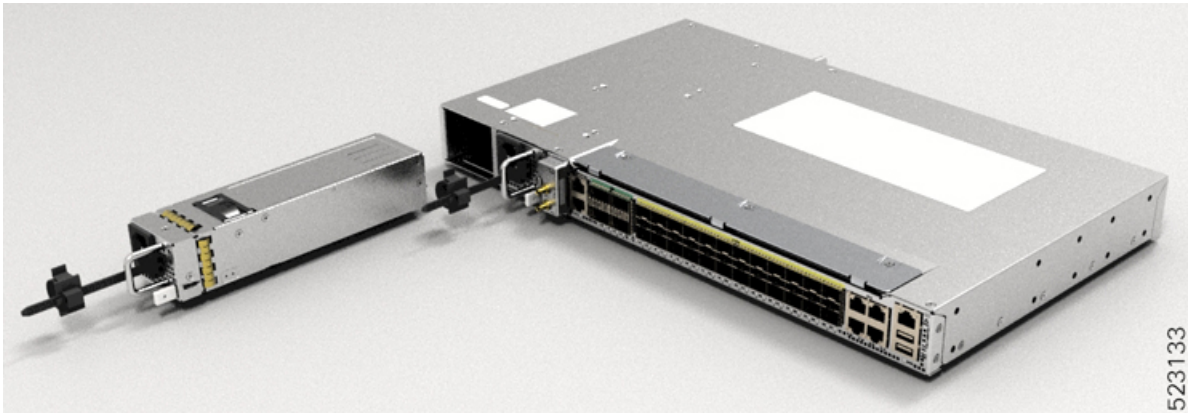
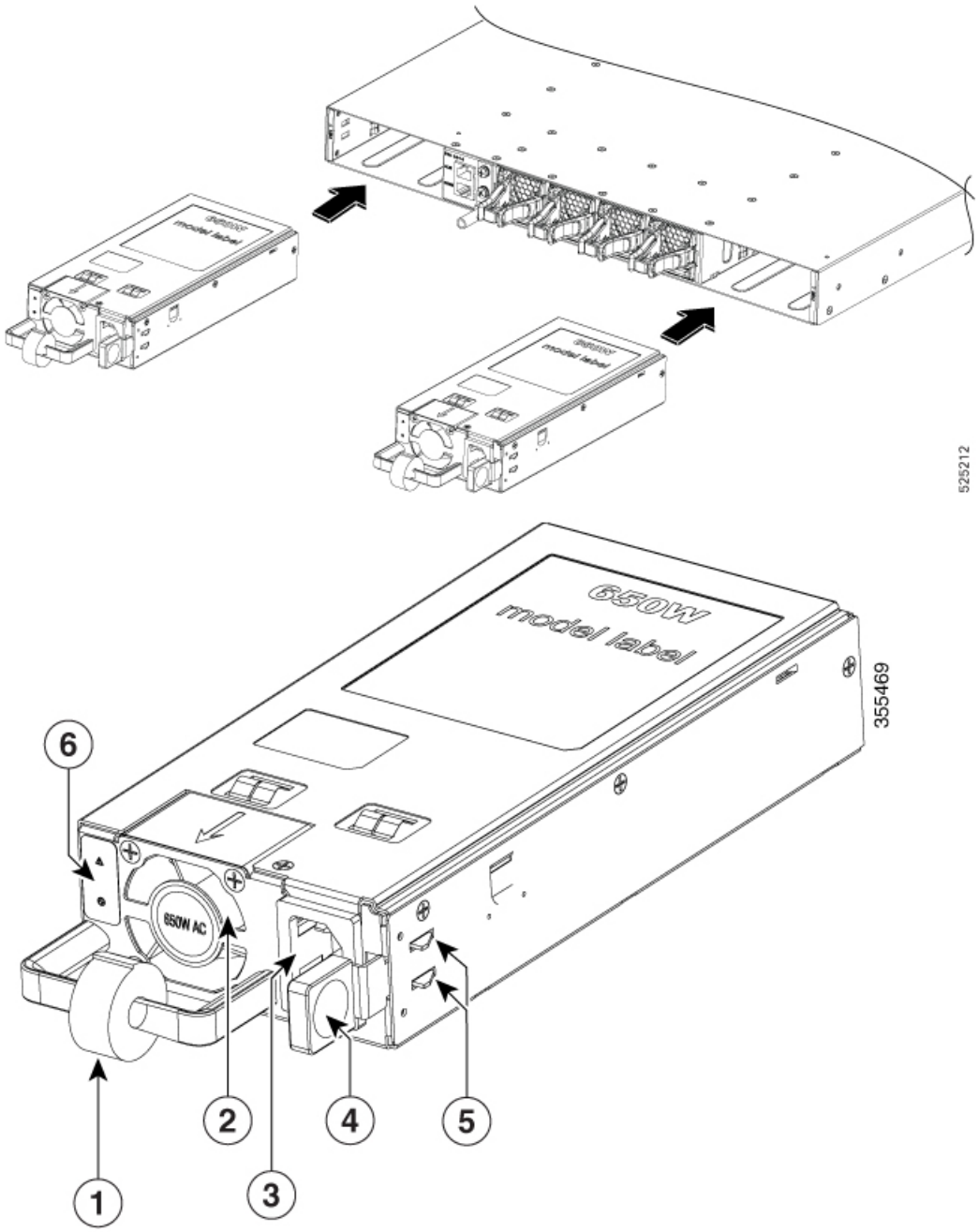


Figure 5: Cisco 8011-32Y8L2H2FH — Install AC Power Supply Module



1	Velco strap	4	Release latch
2	PSU fan	5	Retainer clips
3	AC power cord connector	6	Power status and power supply failure LEDs

Step 4 Slide the AC power supply cord inside the tie of the tie-and-holder and tighten the tie around the power supply cord.

Step 5 Plug the power supply cord into the AC power supply.