

## Power Supply in EX 3200 and EX 4200 Switches

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The power supply in EX 3200 and EX 4200 switches (see Figure 1 on page 2, Figure 2 on page 2 and Figure 3 on page 2) is a hot-removable and hot-insertable field-replaceable unit (FRU) that can be installed on the rear panel without powering off the switch or disrupting the switching function. EX 4200 switches have an internal redundant power supply, making the power supply in EX 4200 switches fully redundant. The power supply in EX 3200 switches is not redundant. However, you can connect an external power supply to an EX 3200 switch to provide redundancy.

EX 3200 and EX 4200 switches use power that provides two DC output voltages: 12 V for system and logic power and 48–51 V (or higher, to compensate for voltage drops along the path from the power supplies to the RJ-45 connector) for PoE ports.

The AC power supply in EX 3200 and EX 4200 switches is available in 320 W, 600 W, and 930 W models. The exterior of the 600 W model is identical to that of the 930 W model. The 320 W power supply is flush with the chassis. The 600 W power supply and 930 W power supply extend out of the chassis by 2.25 inches. The power cord retainer clips extend out of the power supply by 3 inches. The number of ports on which PoE is enabled determines the minimum power requirements.

The DC power supply in EX 3200 and EX 4200 switches is available in a 190 W model, with dual input feeds for power resiliency. You can install redundant DC power supplies in an EX 4200 switch to achieve both power supply and power feed resiliency.



**NOTE:** The DC power supply in EX 3200 and EX 4200 switches does not support Power over Ethernet (PoE); you can use either an external power injector or an AC power supply to supply power to PoE devices that you connect to the switch.

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**NOTE:** The DC power supply in EX 3200 and EX 4200 switches has four terminals labeled A +, B +, A–, and B– (see Figure 3 on page 2) for connecting DC power source cables labeled positive (+) and negative (–). The DC power supplies for EX 3200 and EX 4200 switches are shipped with jumpers from A + input to B + input tied together and jumpers from A– input to B– input tied together.

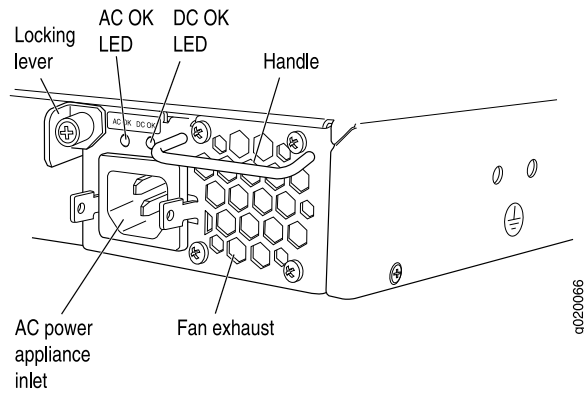
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**NOTE:** The A + and B + terminals are referred to as + RTN and A– and B– terminals are referred to as –48 V in DC Power Wiring Sequence Warning for EX 3200 and EX 4200 Switches and DC Power Electrical Safety Guidelines for EX 3200 and EX 4200 Switches.

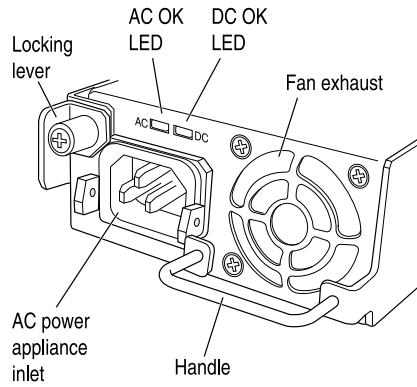
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**Figure 1: 320 W AC Power Supply in EX 3200 and EX 4200 Switches**



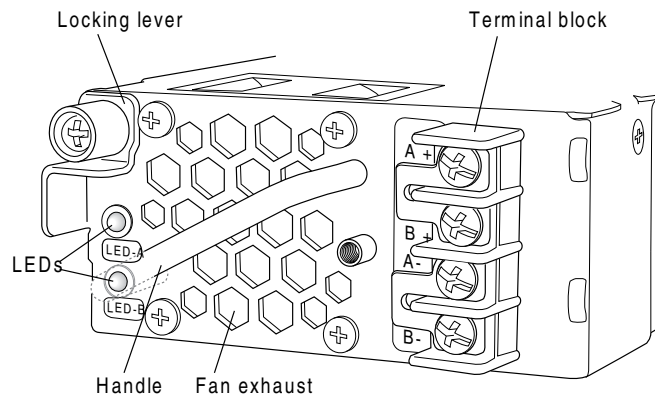
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**Figure 2: 600 W and 930 W AC Power Supplies in EX 3200 and EX 4200 Switches**



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**Figure 3: DC Power Supply in EX 3200 and EX 4200 Switches**



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Table 1 on page 3 provides the minimum power requirements for each model of EX 3200 switch. The maximum power available to each PoE port is 15.4 W.

**Table 1: Minimum Power Requirements for an EX 3200 Switch**

Model Number	Number of PoE-enabled Ports	Minimum Power Requirement
EX 3200-24T	8	320 W
EX 3200-48T	8	320 W
EX 3200-24P	24	600 W
EX 3200-48P	48	930 W
EX 3200-24T-DC	0	190 W
EX 3200-48T-DC	0	190 W

Table 2 on page 3 provides the minimum power requirements for each model of EX 4200 switch. The maximum power available to each PoE port is 15.4 W.

**Table 2: Minimum Power Requirements for an EX 4200 Switch**

Model Number	Number of PoE-enabled Ports	Minimum Power Requirement
EX 4200-24T	8	320 W
EX 4200-48T	8	320 W
EX 4200-24P	24	600 W
EX 4200-48P	48	930 W
EX 4200-24F	–	320 W
EX 4200-24T-DC	0	190 W
EX 4200-48T-DC	0	190 W
EX 4200-24F-DC	–	190 W

To avoid electrical injury, follow instructions in *Installing a Power Supply in an EX-series Switch* and *Removing a Power Supply from an EX-series Switch* carefully.



**NOTE:** After powering on an EX 3200 or EX 4200 switch, wait for at least 60 seconds before powering it off. After powering off an EX 3200 or EX 4200 switch, wait for at least 60 seconds before powering it back on.

After an EX 3200 or EX 4200 switch has been powered on, it can take up to 60 seconds for status indicators—such as LEDs on the power supply, show chassis command output, and messages on the LCD—to indicate that the power supply is functioning normally. Ignore error indicators that appear during the first 60 seconds.

- Related Topics**
- AC Power, Connection, and Power Cord Specifications
  - EX 3200 Switch—Rear-Panel Description
  - EX 4200 Switch—Rear-Panel Description
  - Field-Replaceable Units in EX-series Switches
  - Power Specifications and Requirements for EX-series Switches
  - Preventing Electrostatic Discharge Damage
  - Connecting AC Power to an EX-series Switch
  - Connecting DC Power to an EX 3200 or EX 4200 Switch
  - Connecting Earth Ground to an EX-series Switch