Installation Notes for the Catalyst 3750-X and 3560-X Switch Power Supply Modules

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For information about using the power supply modules with a switch, see the Catalyst 3750-X and 3560-X Switch Hardware Installation Guide. For translations of the safety warnings in this publication, see the Regulatory Compliance and Safety Information for the Catalyst 3750-X and 3560-X Switch on Cisco.com:


- Product Overview, page 1
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Product Overview

The switch operates with either one or two active power supply modules or with power supplied by an expandable power supply, XPS-2200. A Catalyst 3750-X switch that is part of a StackPower stack operates with power supplied by other stack switches.

You can use two AC modules, two DC modules, one AC and one DC module, or one module and a blank cover.

All power supply modules have internal fans. All switches ship with a blank cover in the second power supply slot.
The XPS-2200 operates in two modes:

- In StackPower mode, it supplies power to the switches in the power stack (only Catalyst 3750-X switches with IP Base image).
- In expandable power supply mode, it supplies power to a switch when the switch power supply is removed or fails. When you install or replace a power supply module, the switch software polls the device. After polling, the power supply module provides power to the switch, and the XPS-2200 is available to power other devices.

Table 1 describes the supported internal power supply modules.

### Table 1: Power Supply Module Part Numbers and Descriptions

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C3KX-PWR-1100WAC</td>
<td>1100-W AC power supply module</td>
</tr>
<tr>
<td>C3KX-PWR-715WAC</td>
<td>715-W AC power supply module</td>
</tr>
<tr>
<td>C3KX-PWR-350WAC</td>
<td>350-W AC power supply module</td>
</tr>
<tr>
<td>C3KX-PWR-440WDC</td>
<td>440-W DC power supply module</td>
</tr>
<tr>
<td>C3KX-PS-BLANK</td>
<td>Blank cover</td>
</tr>
</tbody>
</table>

Table 2 and Table 3 show the power supply modules available for Catalyst 3750-X and 3560-X switches and power supply configurations based on switch models.

### Table 2: Available PoE with AC Power Supply

<table>
<thead>
<tr>
<th>Switch Models</th>
<th>Default Power Supply</th>
<th>Available PoE Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>12- and 24-port data (SFP)</td>
<td>C3KX-PWR-350WAC</td>
<td>–</td>
</tr>
<tr>
<td>24-port data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48-port data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24-port PoE+</td>
<td>C3KX-PWR-715WAC</td>
<td>495</td>
</tr>
<tr>
<td>48-port PoE+</td>
<td></td>
<td>462</td>
</tr>
<tr>
<td>48-port full PoE+</td>
<td>C3KX-PWR-1100WAC</td>
<td>847</td>
</tr>
</tbody>
</table>

1. **Japan only**: To satisfy regulatory requirements, you must use the CAB-3KX-250VAC-JP power cord with the 1100-W power supply module.
A 48-port switch with one 715-W power supply provides up to 7.7 W of PoE to all ports.

The 350-W and 715-W AC power supply modules are autoranging units that support input voltages between 100 and 240 VAC. The 1100-W power supply module is an autoranging unit that supports input voltages between 115 and 240 VAC. The 440-W DC power supply module has dual input feeds (A and B) and supports input voltages between 36 and 72 VDC. The output voltage range is 51 to 57 V.

Each AC power supply module has a power cord for connection to an AC power outlet. The 1100-W and 715-W modules use a 16-AWG cord (only North America). All other modules use an 18-AWG cord. The DC power supply module must be wired to a DC power source.

Only the DC power module is NEBS-compliant.

Figure 1 to Figure 4 show the power supply modules.
**Product Overview**

**Figure 1  1100-W AC Power Supply**

1. 1100-W AC power supply module
2. AC OK LED
3. PS OK LED
4. AC power cord connector
5. Release latch
6. Power cord retainer

**Figure 2  715-W AC Power Supply Module**

1. 715-W AC power supply module
2. AC OK LED
3. PS OK LED
4. AC power cord connector
5. Release latch
6. Power cord retainer
Figure 3  350-W AC Power Supply Module

1. 350-W AC power supply module
2. AC OK LED
3. PS OK LED
4. AC power cord connector
5. Release latch
6. Power cord retainer

Figure 4  440-W DC Power Supply Module

1. 440-W DC power supply module
2. DC OK LED
3. PS OK LED
4. Input power terminals (positive polarity)
5. Input power terminals (negative polarity)
6. Grounding terminal
7. Release latch
8. Extraction handle
9. Terminal block safety cover

If no power supply is installed in a power supply slot, install a power supply slot cover (Figure 5).
The power supply modules have two status LEDs.

### Table 5  Switch Power Supply Module LEDs

<table>
<thead>
<tr>
<th>AC OK</th>
<th>Description</th>
<th>PS OK</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off (AC LED is off)</td>
<td>No AC input power.</td>
<td>Off</td>
<td>Output is disabled, or input is outside operating range.</td>
</tr>
<tr>
<td>Green</td>
<td>AC input power present.</td>
<td>Green</td>
<td>Power output to switch.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red</td>
<td>Output has failed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DC OK</th>
<th>Description</th>
<th>PS OK</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off (DC LED is off)</td>
<td>No DC input power.</td>
<td>Off</td>
<td>Output is disabled, or input is outside operating range.</td>
</tr>
<tr>
<td>Green</td>
<td>DC input power present.</td>
<td>Green</td>
<td>Power output to switch.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red</td>
<td>Output has failed.</td>
</tr>
</tbody>
</table>

## Installation Guidelines

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

- Do not force the power supply into the slot. This can damage the switch pins 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 it.
• The power supply is hot-swappable. In some configurations, such as full PoE+ or power sharing mode, removing a power supply causes powered devices to shut down until the power budget matches the input power of a single power supply. To minimize network interruption, hot swap the power supply under these circumstances:
  – The switch is connected to an XPS-2200 and sufficient power is available.
  – The switch is in StackPower mode and sufficient power is available (Catalyst 3750-X only).
  – The switch is powered by other switches in a power stack, and no active backup is in progress.
For the switch commands for displaying the available power budget, see the Catalyst 3750-X and 3560-X Software Configuration Guide.

Caution

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

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.

Make sure that all power supply and fan modules are securely seated before moving the switch.

Warning

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

Warning

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

Statement 371—Power Cable and AC Adapter

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Installing or Replacing an AC Power Supply

**Step 1**  
Turn off the power at its source, unless you are hot-swapping a power supply. If you are not replacing a power supply, go to Step 5.

**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 on the right side of the power supply module in, and slide the power supply out (Figure 6).

**Caution**  
Do not leave the power-supply slot empty for more than 90 seconds while the switch is operating.

**Step 5**  
Install the new power supply into the power-supply slot, and gently push it into the slot. When correctly inserted, the 350-W and 715-W power supplies (excluding the power cord retainer) are flush with the switch rear panel. The 1100-W power-supply module extends 1.5 inches from the switch rear panel.

If you are hot-swapping a power supply in a switch connected to an XPS-2200, the replacement power supply automatically provides power to the switch after about 3 seconds, leaving the XPS-2200 available to power other devices.

*Figure 6 Installing 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 7).

*Figure 7 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. See Table 5 for the LED descriptions.
Installing a DC Power Supply

- Equipment That You Need, page 9
- Grounding the Switch, page 10
- Installing a DC Power Supply, page 9
- Wiring the DC Input Power Source, page 12

Warning
An exposed wire lead from a DC-input power source can conduct harmful levels of electricity. Be sure that no exposed portion of the DC-input power source wire extends from the terminal block plug. Statement 122

Warning
Before connecting or disconnecting ground or power wires to the chassis, ensure that power is removed from the DC circuit. To ensure that all power is OFF, locate the circuit breaker on the panel board that services the DC circuit, switch the circuit breaker to the OFF position, and tape the switch handle of the circuit breaker in the OFF position. Use a voltmeter to test for 0 (zero) voltage at the power terminals on the chassis. Statement 196

Warning
This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 20 A. Statement 1005

Warning
A readily accessible two-poled disconnect device must be incorporated in the fixed wiring. Statement 1022

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 1029

Note
The grounding architecture of this product is DC-isolated (DC-I)

Equipment That You Need

- Ratcheting torque screwdriver with a number-2 Phillips head that exerts up to 15 pound-force inches (lbf-in.) of pressure
- Panduit crimping tool with optional controlled-cycle mechanism (model CT-720, CT-920, CT-920CH, CT-930, or CT-940CH)
- Wire-stripping tools
- 12-gauge copper ground wire (insulated or not) when using a single-ground connection
- 8-gauge copper ground wire (insulated or not) when using a dual-ground connection
Installing a DC Power Supply

- Ground lug screw and ring lug connector. For a dual-ground connection, use a dual-ground adaptor and dual lug connector.
- Four leads of 14-gauge copper wire
- Four fork-type terminals from the DC power supply accessory kit. The terminals must be the proper size for M3 screws in a Dinkle DT-35-B25-style terminal block

Grounding the Switch

Follow the grounding procedures at your site and observe these warnings:

⚠️ **Warning**
This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024

⚠️ **Warning**
When installing or replacing the unit, the ground connection must always be made first and disconnected last. Statement 1046

⚠️ **Caution**
Follow the grounding procedure instructions, and use a UL-listed lug.

Follow these steps to install either a single-ground lug or a dual-ground lug on the switch. Make sure to follow any grounding requirements at your site.

**Step 1**
Use the ground lug screw and the lug ring for a single-ground connection. Use the dual-ground adaptor and dual-hole lug for a dual-ground connection.

**Step 2**
Strip the 12-gauge or 8-gauge ground wire to 0.5 inch (12.7 mm) ± 0.02 inch (0.5 mm) (Figure 8). Stripping more than the recommended amount of wire can leave exposed wire from the connector. Use 12-gauge copper ground wire for the single-ground connection. Use 8-gauge copper ground wire for the dual-ground connection.

**Figure 8** Stripping the Ground Wire

![Stripping the Ground Wire](image)

**Step 3**
Slide the open end of the ground lug over the exposed area of the wire.

**Step 4**
Using a Panduit crimping tool, crimp the ground lug to the wire (Figure 9).
Step 5  Use the ground screw to attach the single-ground lug to the switch rear panel. Use two ground screws to attach the dual-hole lug to the switch rear panel (Figure 10).

Step 6 Using a ratcheting torque screwdriver, torque the ground-lug screws to 60 lbf-in. (960 ozf-in.).

Step 7 Connect the other end of the grounding wire to an appropriate grounding point at your site or to the rack.

**Figure 10**  Attaching the Ground Lug and Wire Assembly

| 1 | Single-ground screw and lug ring |
| 2 | Dual-ground adaptor and dual-hole lug |
Installing the DC Power Supply in the Switch

See the “Installation Guidelines” section on page 6.

Step 1  Turn off DC power. To ensure that power is off, change the circuit breakers to the OFF position, and tape the circuit-breaker switches in the OFF position.
Step 2  Remove the plastic safety cover from the power supply terminal blocks (Figure 4). If you are not replacing a DC power supply, go to Step 5.
Step 3  Use a number-2 Phillips screwdriver to remove the DC-input power wires from the power terminals.
Step 4  Press the release latch at the right side of the power supply module inward, and pull the power supply out.
Step 5  Install the power supply in the power-supply slot, and gently push it into the slot (Figure 11). When correctly inserted, the DC power supply (excluding the extraction handle) is flush with the switch rear panel.

Figure 11  Inserting the DC Power Supply in the Switch

Step 6  Connect the input power as described in the “Wiring the DC Input Power Source” section.

Wiring the DC Input Power Source

Step 1  Using a wire-stripping tool, strip each of the four wires from the DC-input power source to the appropriate length for the terminals.

Warning  Use copper conductors only. Statement 1025

Step 2  Using a Panduit crimping tool, crimp the fork-type terminals to the copper conductor, 90C, 14-AWG DC power input wires.
Step 3  Connect the DC-input power terminals to the terminal blocks. See Figure 12 or Figure 13. Make sure to match the polarity (negative to negative, positive to positive) when connecting the wires to the terminal blocks. Connect the ground wire to a grounded metal rack or to earth ground if the switch is not in a grounded rack.
Finding the Power Supply Module Serial Number

If you contact Cisco Technical Assistance regarding a power supply module, you need to know the serial number. See Figure 14 to Figure 16 to find the serial number.
Finding the Power Supply Module Serial Number

**Figure 14** 1100-W AC Power Supply Serial Number

![1100-W AC Power Supply Serial Number](image1)

**Figure 15** 715-W and 350-W AC Power Supply Module Serial Number

![715-W and 350-W AC Power Supply Module Serial Number](image2)
Finding the Power Supply Module Serial Number

Figure 16  440-W DC Power Supply Module Serial Number

SN: XXXNNNNXXXX
## Technical Specifications

### Table 6  Power Supply Module Environmental and Physical Specifications

<table>
<thead>
<tr>
<th>Environmental Ranges</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>23 to 113° F (–5 to 45° C)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>–40 to 158° F (–40 to 70° C)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10 to 95% (noncondensing)</td>
</tr>
<tr>
<td>Altitude</td>
<td>Up to 10,000 ft (3049 m)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
</tr>
<tr>
<td>C3KX-PWR-1100WAC</td>
<td>3 lb (1.4 kg)</td>
</tr>
<tr>
<td>C3KX-PWR-715WAC</td>
<td>2.8 lb (1.3 kg)</td>
</tr>
<tr>
<td>C3KX-PWR-350WAC</td>
<td>2.7 lb (1.2 kg)</td>
</tr>
<tr>
<td>C3KX-PWR-440WDC</td>
<td>3.5 lb (1.6 kg)</td>
</tr>
<tr>
<td>Dimensions (H x D x W)</td>
<td></td>
</tr>
<tr>
<td>C3KX-PWR-1100WAC</td>
<td>1.38 x 11.72 x 3.25 in. (3.5 x 29.8 x 8.3 cm)</td>
</tr>
<tr>
<td>C3KX-PWR-715WAC</td>
<td>1.38 x 10.22 x 3.25 in. (3.5 x 26 x 8.3 cm)</td>
</tr>
<tr>
<td>C3KX-PWR-350WAC</td>
<td>1.38 x 10.22 x 3.25 in. (3.5 x 26 x 8.3 cm)</td>
</tr>
<tr>
<td>C3KX-PWR-440WDC</td>
<td>1.38 x 10.22 x 3.25 in. (3.5 x 26 x 8.3 cm)</td>
</tr>
</tbody>
</table>

**Note**  Dimensions shown exclude the attached power cord retainer (AC power supplies) or the extraction handle (DC power supplies), which measures 1.55 in. (3.9 cm).
Table 7  AC Power Supply Module Power Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum output power</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input voltage range and frequency</td>
<td>C3KX-PWR-1100WAC: 1100-W, 115 to 240 VAC (autoring) 50 to 60 Hz</td>
<td>C3KX-PWR-715WAC: 715 W, 100 to 240 VAC (autoring), 50 to 60 Hz</td>
<td>C3KX-PWR-350WAC: 350 W, 100 to 240 VAC (autoring), 50 to 60 Hz</td>
</tr>
<tr>
<td>Input current</td>
<td>C3KX-PWR-1100WAC: 12–6 A</td>
<td>C3KX-PWR-715WAC: 10–5 A</td>
<td>C3KX-PWR-350WAC: 4–2 A</td>
</tr>
<tr>
<td>Output ratings</td>
<td>C3KX-PWR-1100WAC: –56 V@19.64 A</td>
<td>C3KX-PWR-715WAC: –56 V@12.8 A</td>
<td>C3KX-PWR-350WAC: –56 V@6.25 A</td>
</tr>
<tr>
<td>Total input BTU(^1)</td>
<td>C3KX-PWR-1100WAC: 4263 Btus per hour, 1250 W</td>
<td>C3KX-PWR-715WAC: 2742 Btus per hour, 804 W</td>
<td>C3KX-PWR-350WAC: 1357 Btus per hour, 398 W</td>
</tr>
<tr>
<td>Total output BTU(^1)</td>
<td>C3KX-PWR-1100WAC: 3751 Btus per hour, 1100W</td>
<td>C3KX-PWR-715WAC: 2438 Btus per hour, 765 W</td>
<td>C3KX-PWR-350WAC: 1194 Btus per hour, 350 W</td>
</tr>
</tbody>
</table>

1. The total input and total output BTU ratings refer to input power to the power supply and output power to the switch. The BTU ratings are based on 100 VAC for the 350-W and 715-W power supplies and 115 VAC for the 1100-W power supply.

Table 8  Power Specifications for DC-Power 12-, 24-, and 48-Port Switches

<table>
<thead>
<tr>
<th>Power Specifications</th>
<th>C3KX-PWR-440WDC: 440 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum output power</td>
<td>C3KX-PWR-440WDC: 16 – 8 A</td>
</tr>
<tr>
<td>DC input voltage</td>
<td>C3KX-PWR-440WDC: –36 to –72 VDC</td>
</tr>
<tr>
<td>Output ratings</td>
<td>C3KX-PWR-440WDC: –56 V@7.86 A</td>
</tr>
<tr>
<td>Voltage range domestic</td>
<td>C3KX-PWR-440WDC: –36 VDC (minimum) –60 VDC (nominal), –72 VDC (maximum)</td>
</tr>
<tr>
<td>Voltage range international</td>
<td>C3KX-PWR-440WDC: –36 VDC (minimum) –60 VDC (nominal), –72 VDC (maximum)</td>
</tr>
<tr>
<td>Total input BTU(^1)</td>
<td>C3KX-PWR-440WDC: 1841 Btus per hour, 540 W</td>
</tr>
<tr>
<td>Total output BTU(^1)</td>
<td>C3KX-PWR-440WDC: 1502 Btus per hour, 440 W</td>
</tr>
<tr>
<td>Wire gauge for ground connection</td>
<td>C3KX-PWR-440WDC: 12 AWG or 8 AWG</td>
</tr>
<tr>
<td>Branch circuit protection</td>
<td>C3KX-PWR-440WDC: 20 A</td>
</tr>
</tbody>
</table>
1. The total input and total output BTU ratings refer to input power to the power supply and output power to the switch. The BTU ratings are based on –36 VDC.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety certifications</td>
<td>UL 60950-1</td>
</tr>
<tr>
<td></td>
<td>C-UL to CAN/CSA 22.2 No.60950-1</td>
</tr>
<tr>
<td></td>
<td>TUV/GS to EN 60950-1</td>
</tr>
<tr>
<td></td>
<td>CB to IEC 60950-1 with all country deviations</td>
</tr>
<tr>
<td></td>
<td>CE marking</td>
</tr>
<tr>
<td></td>
<td>CCC (China compulsory certification)</td>
</tr>
<tr>
<td>Electromagnetic compatibility</td>
<td>FCC Part 15 Class A</td>
</tr>
<tr>
<td>certifications</td>
<td>EN55022 Class A (CISPR22)</td>
</tr>
<tr>
<td></td>
<td>EN55024 (CISPR24)</td>
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<tr>
<td></td>
<td>CE</td>
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<tr>
<td></td>
<td>VCCI Class A</td>
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<tr>
<td></td>
<td>AS/NZS CISPR22 Class A</td>
</tr>
<tr>
<td></td>
<td>KCC</td>
</tr>
<tr>
<td></td>
<td>China EMC certifications</td>
</tr>
<tr>
<td>Environmental</td>
<td>Reduction of Hazardous Substances (ROHS) 5</td>
</tr>
<tr>
<td>Noise specifications</td>
<td>Office product spec: 48 dBA at 86º F (30º C)</td>
</tr>
<tr>
<td>Telco</td>
<td>CLEI code</td>
</tr>
</tbody>
</table>

## Related Publications

These documents are on Cisco.com:


- Catalyst 3750-X and 3560-X Switch Getting Started Guide
- Catalyst 3750-X and 3560-X Switch Hardware Installation Guide
- Regulatory Compliance and Safety Information for the Catalyst 3750-X and 3560-X Switch
- Installation Notes for the Catalyst 3750-X, Catalyst 3560-X Switch Power Supply Modules
- Installation Notes for the Catalyst 3750-X and 3560-X Switch Fan Module
- Installation Notes for the Catalyst 3750-X and 3560-X Switch Network Modules
- Release Notes for the Catalyst 3750-X and 3560-X Switch
- Catalyst 3750-X and 3560-X Switch Software Configuration Guide
- Catalyst 3750-X and 3560-X Switch Command Reference
- Catalyst 3750-X, 3750-E, 3560-X, and 3560-E Switch System Message Guide
- Cisco IOS Software Installation Document

Information about Cisco SFP and SFP+ modules is available from this Cisco.com site:


SFP compatibility matrix documents are available from this Cisco.com site:
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