



Configuring Internal Power Supplies

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Information About Internal Power Supplies

See the device installation guide for information about the power supplies.

How to Configure Internal Power Supplies

This section list the procedures to configure internal power supplies.

Configuring Internal Power Supply

You can use the **power supply** EXEC command to configure and manage the internal power supply on the device. The device does not support the **no power supply** EXEC command.

Follow these steps beginning in user EXEC mode:

Procedure

	Command or Action	Purpose
Step 1	<pre>power supply switch_number slot{A B} { off on } Example: Device# power supply 1 slot A on</pre>	<p>Sets the specified power supply to off or on by using one of these keywords:</p> <ul style="list-style-type: none">• A: Selects the power supply in slot A.• B: Selects power supply in slot B. <p>Note Power supply slot B is the closest to the outer edge of the device.</p>

	Command or Action	Purpose
		<ul style="list-style-type: none"> • off: Sets the power supply off. • on: Sets the power supply on. By default, the device power supply is on .
Step 2	show environment power Example: Device# show environment power	Verifies your settings.

Monitoring Internal Power Supplies

Table 1: Show Commands for Power Supplies

Command	Purpose
show environment power [all switch <i>switch_number</i>]	(Optional) Displays the status of the internal power supplies for the specified device. The device keywords are available only on stacking-capable devices.

Configuration Examples for Internal Power Supplies

This example shows a sample output of the **show power detail** command when a power supply with serial number starting with QCS is installed on the C9500X-60L4D switch.

Device# **show power detail**

```

Power
Supply  Model No          Type  Capacity  Fan States
              0      1
-----
PS1     C9K-PWR-1500WAC      AC    1500 W    active    good  n.a
PS2     C9K-PWR-1500WAC      AC    1500 W    active    good  n.a

```

```

Fan
Tray    Status    Fan states
              0      1
-----
FT1     active    good  good
FT2     active    good  good
FT3     active    good  good
FT4     active    good  good
FT5     active    good  good
FT6     active    good  good

```

This example shows how to set the power supply in slot A to off:

```
Device# power supply 1 slot A off
Disabling Power supply A may result in a power loss to PoE devices and/or switches
Device#
Jun 10 04:52:54.389: %PLATFORM_ENV-6-FRU_PS_OIR: FRU Power Supply 1 powered off
Jun 10 04:52:56.717: %PLATFORM_ENV-1-FAN_NOT_PRESENT: Fan is not present
Device#
```

This example shows how to set the power supply in slot A to on:

```
Device# power supply 1 slot A on
Jun 10 04:54:39.600: %PLATFORM_ENV-6-FRU_PS_OIR: FRU Power Supply 1 powered on
```

This example shows the output of the **show env power** command:

Table 2: show env power Status Descriptions

Field	Description
OK	The power supply is present and power is good.
Not Present	No power supply is installed.
No Input Power	The power supply is present but there is no input power.
Disabled	The power supply and input power are present, but power supply is switched off by CLI.
No Response	The power supply is not recognizable or is faulty.
Failure-Fan	The power supply fan is faulty.

Additional References for Internal Power Supplies

Related Documentation

Related Topic	Document Title
For complete syntax and usage information for the commands used in this chapter.	<i>Command Reference (Catalyst 9200 Series Switches)</i>
For information about the power supplies.	<i>Cisco Catalyst 9200 Series Switches Hardware Installation Guide</i>
For information about PoE Port Priority and Load Shedding.	<i>Configuring Interface Characteristics Chapter in Interface and Hardware Components Configuration Guide (Catalyst 9200 Series Switches).</i>

Feature History for Internal Power Supplies

This table provides release and related information for features explained in this module.

These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Fuji 16.9.2	Internal Power Supplies	The switch operates with power supply modules which could be AC, DC or both. Refer the <i>Hardware Installation Guide</i> for more details on power supply units.
Cisco IOS XE Cupertino 17.9.1	Internal Power Supplies	This feature was implemented on C9200CX-12P-2X2G, C9200CX-8P-2X2G, and C9200CX-12T-2X2G models of the Cisco Catalyst 9200CX Series Switches, which were introduced in this release.

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to [Cisco Feature Navigator](#).