



# 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

### 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
<b>Step 1</b>	<pre>power supply <i>switch_number</i> slot{<b>A</b>   <b>B</b>} { off   on }  Example:  Device# power supply 1 slot A on</pre>	<p>Sets the specified power supply to <b>off</b> or <b>on</b> by using one of these keywords:</p> <ul style="list-style-type: none"><li>• <b>A</b> —Selects the power supply in slot A.</li><li>• <b>B</b> —Selects power supply in slot B.</li></ul> <p><b>Note</b> 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"> <li>• <b>off</b> —Set the power supply off.</li> <li>• <b>on</b> —Set the power supply on.</li> </ul> <p>By default, the device power supply is <b>on</b>.</p>
<b>Step 2</b>	<b>show environment power</b>  <b>Example:</b>  Device# <code>show environment power</code>	Verifies your settings.

## Monitoring Internal Power Supplies

Table 1: Show Commands for Power Supplies

Command	Purpose
<code>show environment power [ all   switch <i>switch_number</i> ]</code>	(Optional) Displays the status of the internal power supplies for each device in the stack or for the specified device. The range is 1 to 8, depending on the device member numbers in the stack.  The device keywords are available only on stacking-capable devices.

## Configuration Examples for Internal Power Supplies

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.

Field	Description
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.

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>.

