

Core Switch Power Supply Failure



Article Overview

A core switch power supply failure can often be diagnosed and resolved by checking LED indicators, verifying power sources, reseating the supply, and replacing faulty units if necessary.

Immediate Diagnostic Steps

- **Check LED Indicators:** Observe the power supply (PS) LED. Green indicates normal operation, amber or red signals a warning or failure, and no light may indicate no AC power or a faulty PS .
- **Verify Power Source:** Ensure the switch is connected to a working outlet. Test with a known good power cord and, if possible, a different power source .
- **Reseat the Power Supply:** Remove the affected PS, wait a few minutes, and reinsert it into the slot. This can resolve transient issues .
- **Test Redundancy:** If the switch has multiple power supplies, confirm that the remaining units are operational. Swap the suspected faulty PS into a known working slot to determine if the issue is with the PS or the chassis slot .
- **Check Environmental Factors:** Ensure proper ventilation and that the switch is not overheating, as high temperatures can trigger PS warnings or failures .

Advanced Troubleshooting

- **Use CLI Commands:** On Cisco switches, commands like `show environment` or `show module` can provide detailed status of each power supply .
- **Inspect for Hardware Damage:** Look for signs of aging, lightning strikes, or physical damage to the PS or power cables .
- **Consider UPS Protection:** To prevent future failures due to power fluctuations or o...

Article Content

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Notes on the Troubleshooting and Repair of Small Switchmode Power

This document will provide you with the knowledge to deal with a large percentage of the problems you are likely to encounter with

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Troubleshooting Power Supply Issues: A Step-by-Step Guide

Experiencing power supply issues with your PC can be frustrating, but many common problems can be resolved with a few

Mar 28, 2026

Power Supplies Output Fails

I have a WS-4506-e that has two 6000w power supplies that both went into Output Fail mode at the same time. The

Oct 30, 2025

Top 9 Reasons for Network Switches Failure

Network switch failures can cause network downtime, affecting our business, production, and damage to our property,

Jan 07, 2026

Cisco Core Switch loses power, network loses it's mind!

This past weekend we lost power for a long duration at our main facility. When power was restored everything started

Dec 04, 2025

Common Switching Power Supply Failures Explained

Explore the causes and solutions for overheating, voltage instability, and component degradation in power supplies.

Aug 14, 2025

The power supply LED is red or has a "faulty" status on a Catalyst

Core issue All power supply status LEDs should be green. The power supply includes the power supplies and power

Feb 15, 2026

Troubleshooting a switch reboot

I have two Catalyst 9300 switches that are stacked and using stacked power. Each power supply is plugged into a

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6 Switching Power Supply Troubleshooting You Should Know

Explore essential switching power supply troubleshooting tips, including common issues like blown fuses, no output,

Oct 10, 2025

Switching Power Supply Troubleshooting & Repair Guide

If switching power supply fails to oscillate or presents malfunctions caused by switch tube, in most cases the voltage at both ends of

Nov 28, 2025

Switching Power Supply Debugging: 10 Most Common Problems

Today I will introduce 10 common problems about SMPS debugging to you. Switch Mode Power Supply (SMPS for

Dec 18, 2025

Analysis of Switch-Mode Power Supply and Rectification: Inductor ...

This article is the first in a series where common switch-mode power supply (SMPS) design errors will be discussed as well as their

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Top 9 Reasons for Network Switches Failure

1. Power failure: The external power supply is unstable, or the power supply line is damaged or the power supply is

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Fix Network Switch Failure: Step-by-Step Guide

If a switch fails despite all troubleshooting steps, replacing it may be the only option. suitable Practices to

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Power supply switch Failure?

All a case power switch does is short to ground, very unlikely to fail as there is no real load there. Perhaps a short

Oct 18, 2025

Dell Networking Power Supply Troubleshooting

This guide documents best practices and approaches when troubleshooting Power Supply Unit (PSU) errors on Dell networking

Mar 06, 2026

Core Switch reboot

I stopped reading after seeing what version the chassis has been running on. Notice after "SG" there is nothing else?

Feb 21, 2026

Solved: core switch redundancy

Hi, school with around 800 users having one core switch 6509-E sup-720 (inter-vlan routing) collapsed core design

Nov 28, 2025

Problem with Core switch and distribution switches

we have core switch 3750 connect with 14 distribution switches 2960 with 2 uplink each, 3 switch work on speed 100

Aug 15, 2025

Common faults of switching power supply and its repair method

In this article, we will introduce the common failures of switching power supply and its repair methods in detail to help readers solve

Apr 16, 2026

Troubleshoot Power Supplies on Catalyst 9000 Switches

This document describes common methods to troubleshoot power supplies on Catalyst 9000 Series Switches.

Jun 26, 2026

Solved: Core Switch reboot

Solved: Hi team i am using Cat 4507 as core switch in the network..The switch has rebooted automatically and have

Apr 16, 2026

How to Troubleshoot and Repair a Switching Power Supply

You'll learn how to safely diagnose common SMPS failures such as blown fuses, shorted MOSFETs, faulty rectifier

Jan 13, 2026

Google Translate

Google's service, offered free of charge, instantly translates words, phrases, and web pages between English and over 100 other

Aug 16, 2025

Core Switch Issue

Hi We're facing an issue on core switch nexus 9504 S/N: FOX2148PHMM
PN:800-41485-01L0 and PID: N9K-C9504.

Jul 27, 2026

Core Switch Randomly Restarting

(1) Check the power source/Cable for anything loose, frayed, or signs of wear. (2)
Check the outlet, could be "dirty"

Jun 03, 2026

1 of the 2 core switches gone bad

The network was working good with 2 3560G switches working as core switch. We had a power failure and since then

Aug 31, 2025

Power Supply Redundancy In Core Switch

How important is redundant power supplies in core switches / single switch environments? I have a customer that has

Dec 25, 2025

Off-Line SMPS Failure Modes PWM Switchers and DC-DC Converters

The more common failure modes result from the power switching devices and from passive components associated with the power

May 16, 2026

Diagnosing Power Supply, Failures, Symptoms and Causes

This Wiki article presents an examination of power supply failure symptoms and their possible causes, with the goal of enabling

Jul 22, 2026

Is Your Power Supply Failing? A Troubleshooting Guide

Is your PC not turning on? Don't blame the power supply unit yet! Let me walk you through the steps to find out if your

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ts_hwcom

If the image download fails, the supervisor power cycles the module. Choose Logs > Switch Resident > Syslog > Since Reboot in

Contact Us

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