

TP-Link Switch PoE Voltage



Article Overview

TP-Link PoE switches typically deliver 48V DC for standard PoE (802.3af/at) and may use 24V or 48V for passive PoE, depending on the model.

Standard PoE (IEEE 802.3af/at/PoE+)

TP-Link switches that comply with IEEE 802.3af (PoE) or 802.3at (PoE+) standards provide 48V DC over Ethernet cables. The power delivered per port varies by standard:

- 802.3af (PoE): up to 15.4W per port
 - 802.3at (PoE+): up to 30W per port
 - 802.3bt (PoE++): up to 60W (Type 3) or 100W (Type 4) per port
- These switches automatically negotiate with powered devices (PDs) to ensure safe and compatible power delivery, preventing damage to non-PoE devices. For example, the TL-SG105PE supports up to 30W per PoE port with a total PoE budget of 65W for its 4 PoE+ ports.

Passive PoE

Some TP-Link devices use passive PoE, which does not follow IEEE standards. Passive PoE delivers a fixed voltage, commonly 9V, 12V, 24V, or 48V, without negotiation with the powered device. This method requires a dedicated passive PoE injector or adapter and is not compatible with standard PoE switches. Cable length limitations also apply: indoor devices typically support up to 30 meters, while outdoor devices can reach up to 60 meters

Article Content

May 04, 2026

tp-link 5-Port Gigabit Desktop PoE Switch Installation Guide

This installation guide provides an in-depth explanation of the TL-SG1005P, a 5-port gigabit desktop PoE switch from

Jan 17, 2026

PoE Guide to TP-Link Access Points

What power supply method is supported by TP-Link devices? Access Points may have various power supply methods,

Nov 15, 2025

TP-LINK Network RJ45 switch 5 ports PoE : Instructions

If the Power LED is not lit, please try the following: A1: Make sure the AC power cord is connected to the switch with power source

Sep 25, 2025

24-Port-Gigabit-Smart-PoE+-Switch mit 4 Combo-SFP-Slots

Der TL-SG2424P verfügt über 24 10/100/1000Mbit/s-Ports nach IEEE802.3at/af (PoE), die insgesamt 180W zur Verfügung stellen,

Dec 16, 2025

5-Port Gigabit Desktop PoE Switch with 4-Port PoE+

5-Port Gigabit Desktop Switch with 4-Port PoE+. The total 40 W PoE power budget for the 4× PoE+ ports

May 20, 2026

Common Questions About 802.3 PoE

Voltage: Can vary widely, commonly 24V or 48V, but other voltages are also used.
Power Delivery: Depends on the

Oct 30, 2025

Common Questions About 802.3 PoE

This Article Applies to: All Omada PoE switches. Common Questions: 1. Standard PoE and Passive PoE Standard

May 02, 2026

Wie wählt man einen PoE-Switch? | TP-Link Deutschland

PoE Switch arbeitet als PSE und Access Layer Switch gleichzeitig, wir können die folgenden Aspekte bei der Wahl des

Sep 10, 2025

8-Port Gigabit Desktop/Rackmount Switch with 8-Port PoE+

8-Port Gigabit Desktop/Rackmount Switch with 8-Port PoE+ 8 10/100/1000Mbps RJ45 ports Equipped with 8 PoE+ supported ports

Sep 01, 2025

On: Providing PoE power Installation Guide PoE MAX

Installation Guide Gigabit Easy Smart PoE+ Switch Note: For simplicity, we will take TL-SG108PE for example

Mar 10, 2026

PoE Guide to TP-Link Access Points

A typical PoE system consists of a PSE and a PD. In standard PoE, both power sourcing equipment (PSE) and

Jun 01, 2026

PoE Voltage Limiting howto on JetStream PoE+ Switches

But our PoE capable AP's are running on 24V PoE voltage level. I'm afraid is if I connected a 48V PoE output of the

Aug 27, 2025

Installation Guide

TP-Link hereby declares that the switch is in compliance with the essential requirements and other relevant provisions of the

Nov 15, 2025

18-Port Gigabit Easy Smart Switch with 16-Port PoE+

18-Port Gigabit Easy Smart Switch with 16-Port PoE+ 16× PoE+ gigabit RJ45 ports, 2× gigabit non-PoE

Jul 01, 2026

8-Port Gigabit Easy Smart Switch

What This Product Does The TL-SG108PE is an 8-port Gigabit Easy Smart Switch with 4 PoE ports, represents a powerful upgrade

Dec 27, 2025

TL-SG108PE | 8-Port Gigabit Easy Smart Switch with 4

8-Port Gigabit Easy Smart Switch with 4-Port PoE+ Eight 10/100/1000Mbps RJ45 ports
Equipped with four

Aug 19, 2025

What's PoE | Omada Network Support

When purchasing a passive PoE switch/adapter, you need to consider its voltage
according to the voltage of the

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PoE Guide to TP-Link Access Points | Omada Network Support

What power supply method is supported by TP-Link devices? Access Points may have
various power supply methods,

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PoE Guide to TP-Link Access Points | Omada Network Support

A typical PoE system consists of a PSE and a PD. In standard PoE, both power
sourcing equipment (PSE) and

Mar 26, 2026

TL-SG108PE | 8-Port Gigabit Easy Smart Switch mit 4-Port PoE+

TL-SG108PE 8-Port Gigabit Easy Smart Switch mit 4-Port PoE+ Acht RJ45-Ports mit
10/100/1000 Mbit/s Ausgestattet mit vier

Jan 25, 2026

Common Questions About 802.3 PoE

The PoE Splitter can be used with a PoE/PoE+ switch to deliver direct current (DC)
power and data to a Non-PoE

Apr 21, 2026

What Is a PoE Switch | Power over Ethernet | TP-Link United Kingdom

Power over Ethernet (PoE) is a technology that allows network switches to transmit
both power and data through an Ethernet cable

Dec 16, 2025

8-Port Gigabit Desktop/Rackmount Switch with 8-Port PoE+

With its Desktop /Rack mount able design, outstanding performance and quality, the TP-LINK TL-SG1008PE 8-Port Gigabit

Nov 13, 2025

PoE Switch | Datasheet

PoE Auto Recovery: Automatically reboots your dropped or unresponsive PoE-powered devices. Plug and Play:

May 29, 2026

TL-SG1005P-PD | 5-Port Gigabit Desktop PoE+ Switch with 1 ...

TL-SG1005P-PD is a standard PoE switch. It has 1-Port Gigabit PoE++ In and 4-Port PoE+ Out, supporting up to 66 W PoE budget.

May 06, 2026

TL-POE160S | PoE+ Injector | TP-Link

The PoE+ Injector TL-POE160S fully complies with IEEE 802.3af/at standards, and can work with all IEEE

Jan 06, 2026

© 2021 TP-Link On Connected to a 1000 Mbps Off Installation Guide ...

When the total power consumption of connected PoE devices exceeds the maximum, the PoE port with a smaller port number has

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How do you enable/disable POE POWER on individual ports?

For TP-Link PoE switches, except for Unmanaged Switches, we can disable/enable PoE power on individual ports

Jun 27, 2026

Omada Reverse PoE Switch | Datasheet

Disclaimers: When the reverse switch functions, do not use the alternation switch to change output voltage of the DC

Feb 28, 2026

networking

Power over Ethernet is injected onto the cable at a voltage between 44 and 57 volts DC, and typically 48 volts is used. The amount

Oct 07, 2025

5-Port Gigabit Desktop Switch with 4-Port PoE+

5-Port Gigabit Desktop Switch with 4-Port PoE+ 5× 10/100/1000 Mbps RJ45 ports
With four PoE+ ports, transfers data and power on

Aug 11, 2025

TP-Link PoE Switches

TP-Link PoE Switches broadbandbuyer offers a range of Power over Ethernet (PoE) switches that enable you to provide power to

Contact Us

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