

## How many volts does a Huijue PoE switch cost



### Overview

A voltage of between 44 and 57 volts DC, usually 48 volts, is used to pump power over Ethernet onto the wire.

### Key Takeaways

Huijue PoE switches typically output 48 volts DC over Ethernet, following standard IEEE PoE specifications. PoE Voltage Standards

PoE (Power over Ethernet) switches, including Huijue models, deliver DC voltage over Ethernet cables to power devices such as IP cameras, Wi-Fi access points, and VoIP phones. The voltage depends on the PoE standard:

- IEEE 802.3af (PoE): 44–57V DC, maximum 15.4W per port
  - IEEE 802.3at (PoE+): 50–57V DC, maximum 30W per port
  - IEEE 802.3bt (PoE++/4PPoE): 50–57V DC, up to 60W or 90W per port depending on the class
- Most Huijue PoE switches conform to these standards, so the nominal voltage is around 48V DC, which is safe and compatible with standard PoE devices.
- Power Delivery Considerations
- The total power budget of the switch determines how many devices can be powered simultaneously. For example, a 24-port switch with a 370W budget can supply 15.4W to each port under 802.3af, or fewer ports at higher wattage under 802.3at .

- Voltage is delivered over the Ethernet cable using either phantom power on data pairs or spare pairs, depending on the switch configuration .
- Cable length and quality affect voltage drop; PoE is designed to safely deliver power up to 100 meters (328 feet) .

#### Summary

If you are using a Huijue PoE switch, you can expect it to provide approximately 48V DC to connected devices, with the exact power per port depending on the PoE standard (af, at, or bt) and the switch's total power budget. Always check the switch's specifications to ensure it meets the power requirements of your devices .

## Article Content

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