

PoE Splitter SP-POE12

Description

The SP-POE12 splitter is designed to power IP cameras that require a 12V DC power supply. It is built using a high-efficiency voltage converter that steps down voltage from 44–57V DC to 12V DC. The maximum load current is 1.25A (Pmax = 15W). The splitter can be powered by PoE-compliant devices (e.g., PoE Switch) or passive PoE injectors that supply voltage on pairs 4/5 and 7/8, which do not carry data (e.g., POE0448).

The module input (RJ-45 socket) receives both power (POWER) and data (DATA). The output (RJ-45 plug) transmits only data (DATA), while the 12V DC power supply for the camera is available through a DC 5.5/2.1 plug.

The splitter can also be used to power other devices that require a 12V DC power supply.

Module Features

- Power output for cameras: 1.25A / 12V DC
- Input voltage range: 44–57V DC
- High efficiency: 84%
- Designed for 10/100Mb/s networks
- Optical LED signaling
- Protections:
 - - Short circuit protection (SCP)
 - - Overload protection (OLP)

Technical Data

- Input voltage range: 44V ÷ 57V DC
- Current consumption: 0.32A ÷ 0.41A
- Module power: 15W
- Efficiency: 84%
- Output voltage: 12V DC
- Output current: 1.25A
- Ripple voltage: 150mV p-p max.
- Protection: SCP, OLP (105% ÷ 150% of module power, automatic recovery)
- Optical signaling: RJ45 socket - Yellow LED indicates presence of DC input voltage (on = normal, off = failure)
- PoE standard: IEEE 802.3af/at
- Power input pairs: 1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-)

- Supported transmission speed: 10/100Mb/s Full Duplex
- Input connector: RJ-45 socket
- Output connectors:
 - - Power: 30 cm cable + DC 5.5/2.1 plug
 - - Data: Cat. 5 twisted pair + RJ-45 plug
- Operating conditions: Environmental class II, -10°C to 40°C
- Dimensions: 86 × 30 × 25 mm (W × H × D)
- Net/Gross weight: 0.07 / 0.075 kg
- Declarations: CE, RoHS