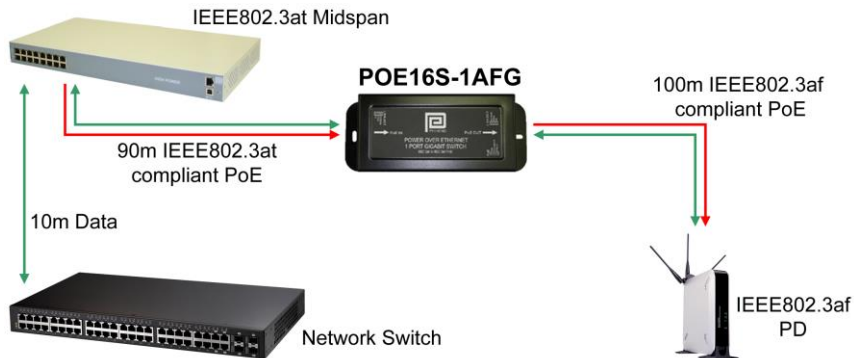




IEEE802.3at Single Port PoE Gigabit Switch Extends Ethernet Data and PoE to 200 Meters



Features

- IEEE802.3af Class 4
- 0-55C Operating Temperature Range
- Gigabit Compatible
- Extends Ethernet to 200 meters
- Powered by IEEE802.3at with Layer 1
- Detects 25K signature resistance
- Boost Circuit to Compensate for Wire Drops
- 1 Year Warranty

Applications

- IP Cameras
- Access Controls
- Wireless Access Points

Safety Approvals

- CE

Mechanical Characteristics

- Length: 120mm (4.72in)
- Width: 60mm (2.36in)
- Height: 32mm (1.26in)
- Weight: 0.6Kg (1.3lb)

Output Specifications

| Model | DC Output Voltage | | | Output Current | | Output Power |
|---------------|-------------------|------|------|----------------|-------|--------------|
| | Min. | Typ. | Max. | Min. | Max. | |
| POE16S-1AFG-R | 54V | 56V | 57V | 10mA | 330mA | 19W |

Reference files: [POE16S-1AFG User Manual](#)

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

INPUT:**Input Source**

Receives power from IEEE802.3at Midspan

Input Detection

25K Detection IEEE802.3at compliance

DC Input Voltage Range

45VDC to 57VDC

DC Input Current

1.0A at 45VDC and max load
2.0A at 50VDC and max load
0.8A at 57VDC and max load

OUTPUT:**Total Output Power**

19W with 33.6W PoE Input

Ripple and Noise (Vp-p)

250mV max

Output Detection

25K Detection IEEE802.3af compliance

Efficiency

75% min at max load

ENVIRONMENTAL

| | |
|-----------------------------|--------------|
| Operating Temperature | 0 to 40°C |
| (gigabit data rates) | |
| Operating Temperature | 0 to 55°C |
| (10Mb and 100Mb data rates) | |
| Storage Temperature | -25 to +65°C |
| Humidity | 5 to 90% |

EMI

Complies with FCC Class A
Complies with EN55032 Class B

Immunity

| | | |
|-------|-------------|---------|
| ESD | EN61000-4-2 | Level 3 |
| RS | EN61000-4-3 | Level 3 |
| Surge | EN61000-4-5 | Level 2 |

Isolation (HI-POT)

2121VDC for 1 min, 10mA

Insulation Resistance

Input to Ground: >10M OHM 500VDC
Output to Ground: >10M OHM 500VDC

FEATURES**Over Current Protection**

For PoE Class 0-3 Detection on Output: 450mA maximum
For PoE Class 4 Detection on Output: 650mA maximum

Short Circuit Protection

Outputs equipped with short circuit protection. The output can be shorted permanently without damage

Indicators

Ethernet – Green LED1 and LED2 - 10Mb IN/OUT Activity

Green LED1 – 100Mb Activity

Green LED2 – 1Gb Activity

Orange LED3 – Link Activity

POE

Blinking GREEN – Unit is ON
Active with No Load

Solid GREEN – Unit has detected a valid IEEE802.3af load

Blinking RED/GREEN – unit has detected an invalid load

Solid RED – unit is in over-load condition

Input/Output Connectors

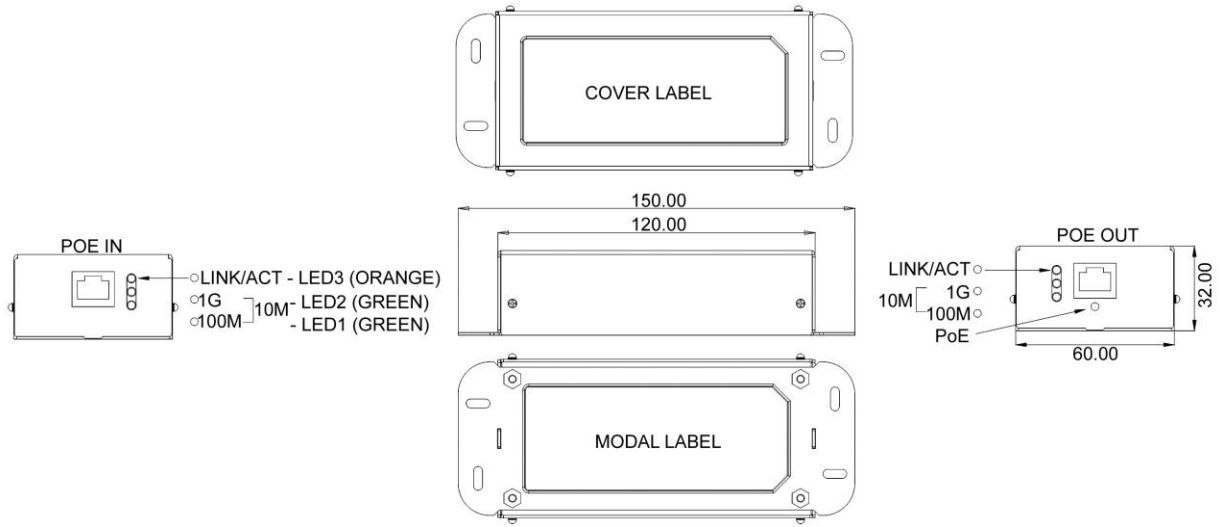
RJ45

Input Connection

Pins: 1,2 7,8 GND / Pins: 3,6 4,5 +VIN

Output Connection

Pins: 7,8 GND / Pins: 4,5 +VIN



**Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information**

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NOTE: This model has/The models in this products series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.