



Single Port 15.4W Power over Ethernet Interchangeable Wall Plug* Adapter Power Injector



*Plugs sold separately

Features

- Fully Compliant with IEEE802.3af
- Non-Vented Case
- Field Interchangeable AC Clips*
- 1 Year Warranty
- 10/100/1000/2500 data speed
- Lowest Cost
- Full Protection OCP, OVP
- Diagnostic LEDs
- Level VI Efficiency select models

Applications

- IP Telephones
- Wireless Network Access Points
- Blue Tooth Access Points
- Security Cameras
- IP Print Servers

Safety Approvals

- cUL/UL 62368-1
- IEC 62368-1

Mechanical Characteristics

- Length: 80mm (3.15in)
- Width: 45mm (1.77in)
- Height: 33mm (1.29in)
- Weight: 95g (3.35oz.)

Output Specifications

Model	DC Output Voltage	Load		Output Power	Data Speed	Efficiency	Regulation	
		Min.	Max.				Line	Load
POE16R-1AFG-R ¹	56V	0A	0.275A	15.4W	1G	none	54-57VDC	

Notes:

1. Not Recommended for New Designs (NRND)

INPUT:

AC Input Voltage Range
90 to 264VAC

AC Input Voltage Rating
100 to 240VAC

AC Input Current
0.8A (RMS) max for 90VAC
0.5A (RMS) max for 240VAC

Leakage Current
0.25mA max @ 254VAC 60Hz

AC Input Frequency
47-63Hz

AC Inrush Current
15A (RMS) max for 115VAC
20A (RMS) max for 230VAC

OUTPUT:

Total Output Power
15.4W

Ripple and Regulation²
150mV max

Efficiency³
85% (typical) at max load, 120VAC 60Hz

Transient O/P Voltage Protection
60V max at switch on/off, any AC line phase

ENVIRONMENTAL:**Temperature**

Operation 0 to +40°C
Non-operation -25 to +65°C
Humidity 5 to 90%

EMC

Complies with FCC Class B
Complies with EN55032 Class B

Immunity

ESD: EN61000-4-2. 6KV
Contact/8KV Air
RS: EN61000-4-3. 3V/M
EFT: EN61000-4-4. Level 2
Surge: EN61000-4-5. 1KV DM/2KV
CM
CS: EN61000-4-6. 3V
Voltage Dips EN61000-4-11
Harmonic: EN61000-3-2 Class A

Isolation Test

Primary to Secondary: 3000VAC for 1 second
10mA

Insulation Resistance

Primary to Secondary: >10M OHM 500VDC

FEATURES:**Over Voltage/Current, Short Circuit Protection**

The output is equipped with short circuit protection and overload protection as per IEEE802.3af specifications and conforms to UL60950-2. The output can be shorted permanently without damage.

Hold-up Time

16mS min. 120VAC and max load

Notes:

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. Measured with by-pass capacitors 0.1uF/10uF at output connector terminal and oscilloscope set at 20Mhz (tested by oscilloscope). 20 minutes warm-up required when operating at negative temperature.
3. Efficiency is measured after 30 minutes burn-in

Indicator

Solid Green: Valid IEEE802.3af load detected and connected “ON”

Blinking Green/Red: Invalid load connected

Solid Red LED: Fault detected

Data in/Output Connector

RJ45

Output Connection

+pin 3,6 / -pins 1,2

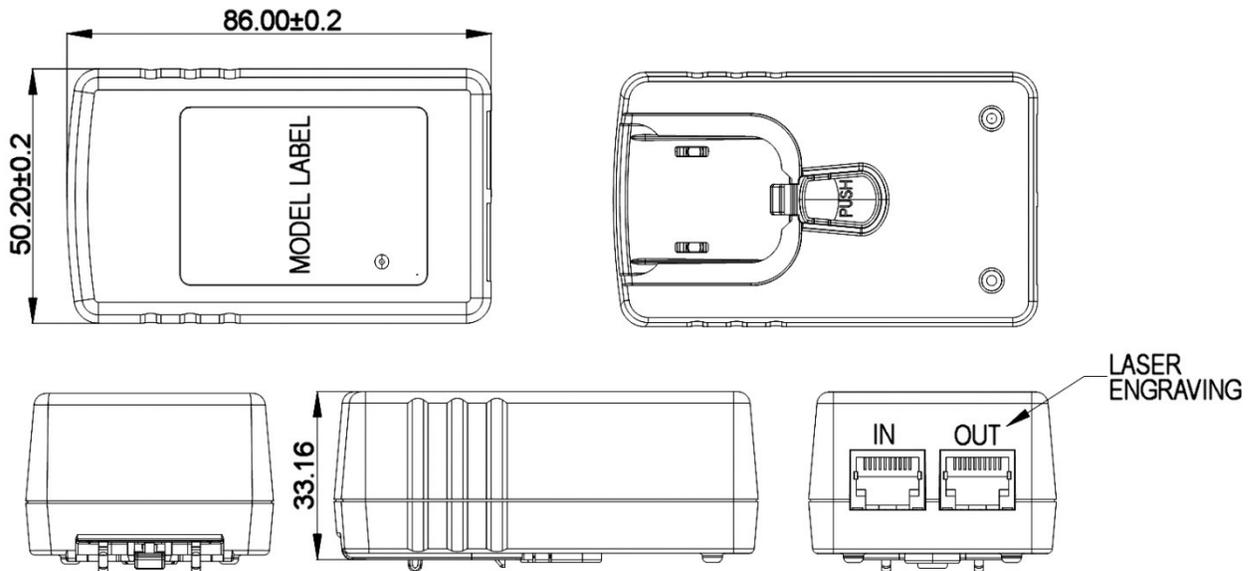
Warranty

1 Year

**Interchangeable AC Clips
(Sold Separately)**

RPA:	US	RPI:	India
RPB:	Brazil	RPK:	UK
RPC:	China	RPN:	Argentina
RPE:	Europe	RPS:	Australia
RPH:	Korea	RPX:	C8

Dimensional Diagram Unit: mm



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

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www.phihong.com

NOTE: This model has/The models in this product 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.

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