15W Single Port Power-over-Ethernet Midspan IEEE802.3AF Compliant Power Injector

Features

- Compliant with IEEE802.3af Standard
- Non-Vented Case
- Small case size
- 1 Year Warranty
- Gigabit data rates
- Full Protection OCP, OVP
- Low Cost

Applications

- IP Telephones
- Wireless Network Access Points
- Security Cameras

Safety Approvals

- cUL/UL 60950-2
- IEC/EN 60950-2
- CE
- LPS

Mechanical Characteristics

- Length: 106mm (4.17in)
- Width: 40mm (1.57in)
- Height: 27mm (1.1in)
- Weight: 100g (3.5oz.)

Output Specifications

Model	Input Connector	DC Output Voltage	Load		Regulation		Output Power
			Min	Max	Line	Load	
POE15W-1AF-R[1]	C8[2]	56V	0A	0.275A	54-57V		15.4W

Notes:
1. Consult factory for availability.
2. C8 is polarized, however non-polarized cables can be used. The internal circuit does not require polarization.

INPUT:
AC Input Voltage Range
90 to 264VAC

AC Input Voltage Rating
100 to 240VAC

AC Input Current
0.5A (RMS) max for 90VAC
0.35A (RMS) max for 240VAC

Leakage Current
0.25mA max @ 254VAC 50Hz

AC Input Frequency
47-63Hz

AC Inrush Current
30A (RMS) max for 115VAC
60A (RMS) max for 230VAC

OUTPUT:
Total Output Power
15.4W

Ripple and Regulation
200mV max @25C, 115VAC, 60Hz &
230VAC, 50Hz

Hold-up time:
16mS min at max load and 120VAC, 60Hz

ENVIRONMENTAL:
Temperature
Operation	-20°C to +50°C
Non-operation	-25°C to +70°C
Humidity	5 to 90%

EMC
Complies with FCC Part 15 Class B
Complies with EN55032 Class B

Immunity
ESD:	EN61000-4-2.	Level 3
RS:	EN61000-4-3.	Level 2
EFT:	EN61000-4-4.	Level 2
Surge:	EN61000-4-5.	Level 3
CS:	EN61000-4-6.	Level 2
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 the IEEE802.3af specification and conforms to UL60950-2. The output can be shorted permanently without damage.

Indicator
Solid Green: unit has detected a valid IEEE802.3af load
Blinking Green: Power "ON" active with no load
Blinking Green/Solid Red: Over load condition
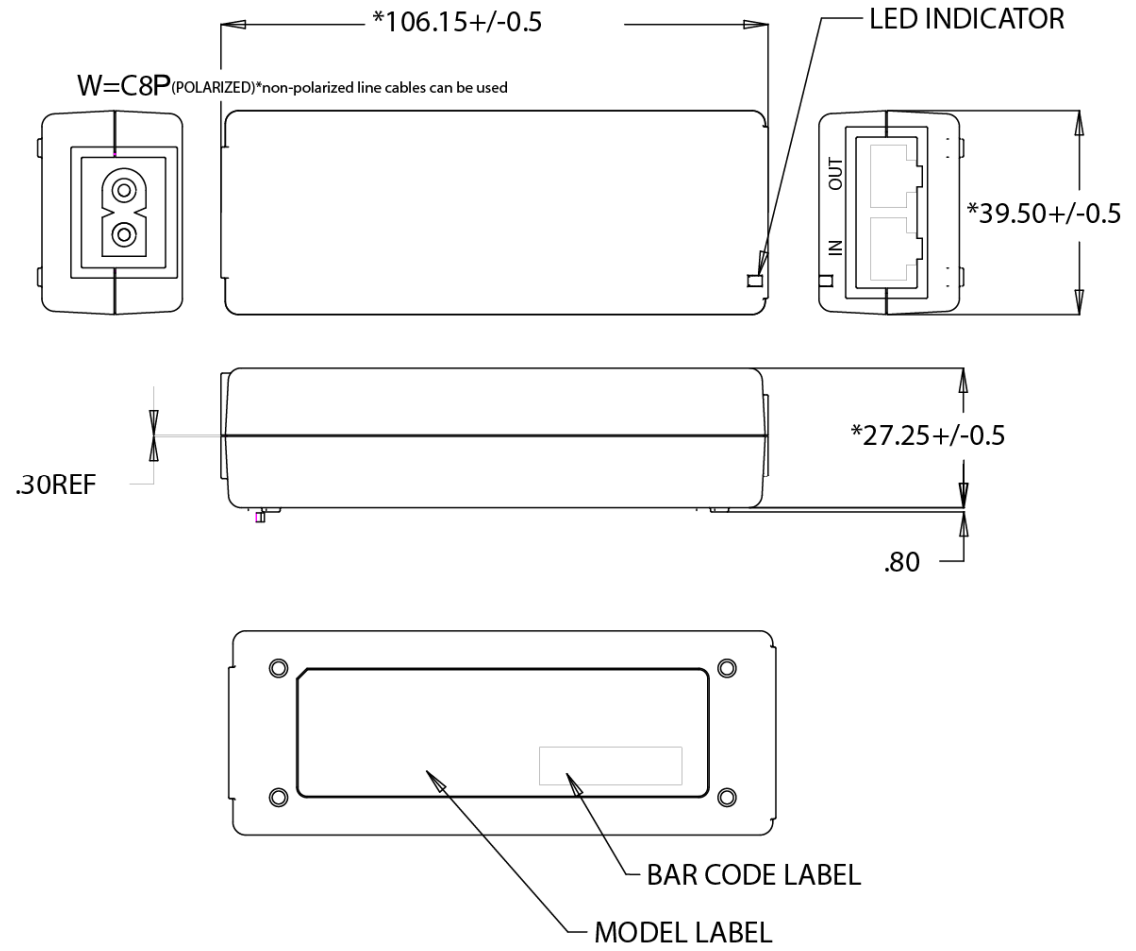Blinking Red/ Solid Green: Invalid load

Data in/Output Connector
RJ45
E option = Earth grounded shielded Rj45 connectors

Output Connection
+pin 3,6 / -pins 1,2

*106.15+/-0.5

LED INDICATOR

W=C8P(POLARIZED)*non-polarized line cables can be used

OUT

IN

*39.50+/-0.5

.30REF

*27.25+/-0.5

.80

BAR CODE LABEL

MODEL LABEL

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

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Fremont, CA 94538
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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.