30W, IEEE802.3at Single Port PoE Active Injectors

x

Features

- IEEE802.3at Complaint
- DOE VI Efficiency
- EU CoC Version 5 Tier 2 Efficiency
- Compact Size
- Limited Power Source
- Three Wire Input Models
- Full Over-Voltage and Over-Current Protection
- Non-Vented Case
- 1 Year Warranty

Applications

- IP Telephones
- Wireless Access Points
- Bluetooth® Access Points
- Security Cameras
- IP Print Servers
- WiMAX® Access Points

Safety Approvals

- cUL/UL (62368-1)
- CB (IEC62368-1)
- CE
- UL,cUL, CB 60950-X

Mechanical Characteristics

- Length: 126mm (4.96in.)
- Width: 45.5mm (1.79in.)
- Height: 30mm (1.18in.)
- Weight: 0.16kg (5.64oz)

Output Specifications

Model	Data Speed	DC Output Voltage	Load		Regulation[1]	
			Min.	Max.	Line	Load
POEA30U-1ATE-R	1G	56V	10mA	536mA	54-57V	
POEA30U-1AT-2-R	2.5G	56V	10mA	536mA	54-57V	
POEA30U-1AT-5-R	5G	56V	10mA	536mA	54-57V	
POEA30U-1AT-X-R	10G	56V	10mA	536mA	54-57V	

Notes:

1. Voltage measured within 2” of the output RJ45 connector on data pairs 3,6(+) and 1,2(-)

POEA30U-1AT-R Characteristics[1] WWW.PHIHONG.COM

INPUT:

AC Input Voltage Range
90 to 264VAC

AC Input Current
0.8A (RMS) max

AC Input Frequency
47Hz to 63Hz

Leakage Current
3.5mA max @254V, 50Hz

Max In-rush Current
60A max at 240VAC and max load
(Cold Start at ambient 25°C)

OUTPUT:

Output Power
30W, de-rated up to 15W at 50°C

Hold up Time
10mSec min at max load at 120VAC, 60Hz

Efficiency[2]
Minimum 85% @max load

ENVIRONMENTAL

Temperature

Operating	-10°C to +40°C
Non-operating	-20°C to +70°C
Relative Humidity	5 to 90%

EMI
EN55032 Class B, FCC part 15 Class B

Immunities
IEC61000-4-2 (ESD) 6KV Contact/8KV Air
IEC61000-4-3 (RS) 3V/m
IEC61000-4-4(EFT) 1KV Input 0.5KV Output
IEC61000-4-5 (Surge) 1KV L-L, 2KV L-PE
IEC61000-4-6 (CS) 3V
IEC61000-4-11 (Dips) Class 3
IEC61000-3-2 (Harmonic) Class D

Isolation (HI-POT)
4242VDC for 1 minute, 10mA

Insulation Resistance
Primary to secondary:>10M Ohm 500VDC

MTBF[3]
150,000 Hours Min @ Max Load 115VAC
25ºC

FEATURES:

Over Voltage Protection
Non-Latching auto recovery

Over Current Protection
<750mA Non-latch

Short Circuit Protection
Non-Latching auto recovery. Output can be shorted permanently without damage

LED Indicators
Green LED Slow Blinking – No connection
Green LED Fast Blinking – No Load
Green Solid – Power Good
Green/Yellow Fast Blink – Fault Detected
Yellow Solid with Green Blink – Over/Short Current Detected

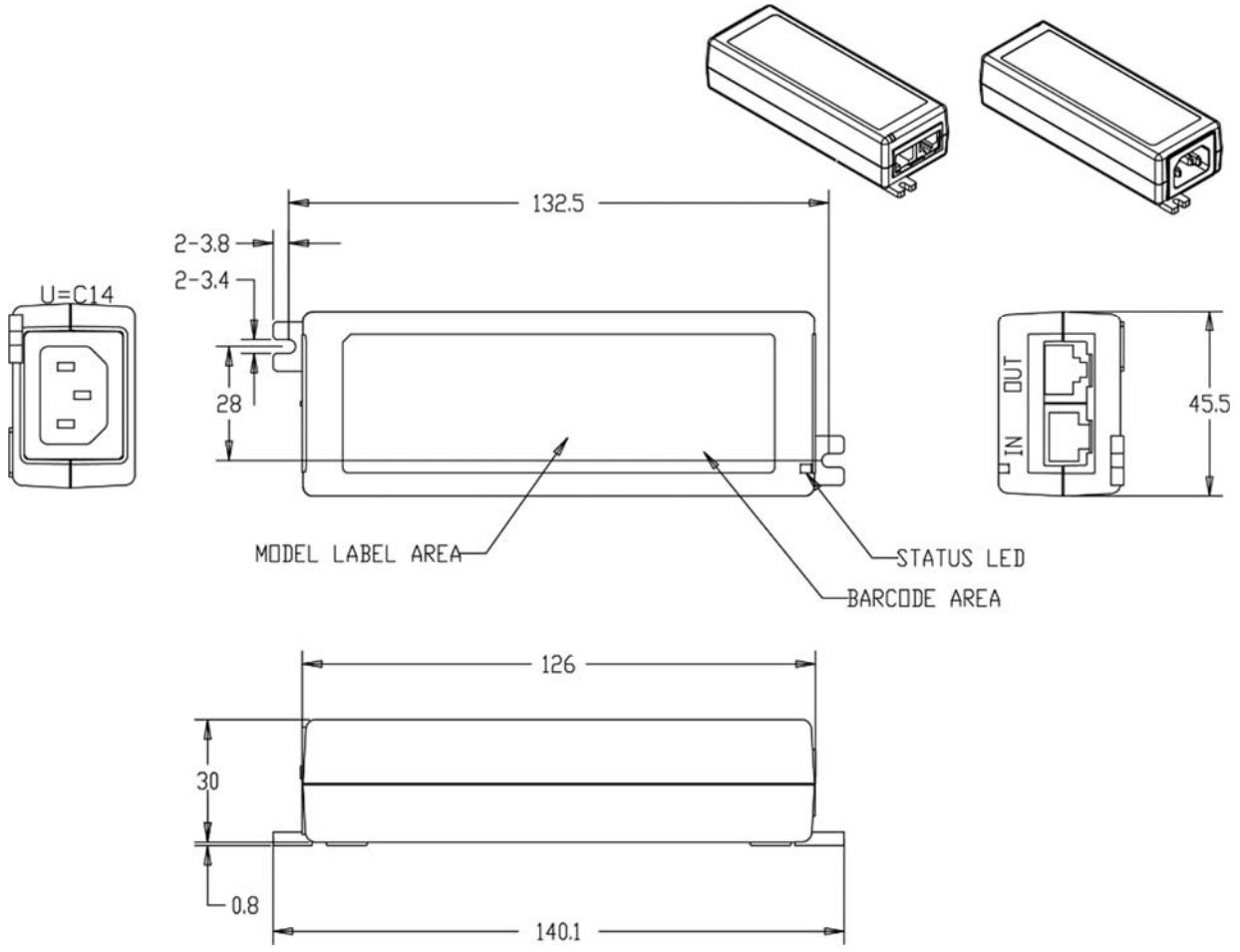
AC Input Connector
IEC320 C14 -

Output Connection

56VDC	RJ45 Pins 3&6
56VRTN	RJ45 Pins 1&2

Notes:
1. The characteristics defined are at ambient temperature of 25ºC unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in
3.

Dimensional Diagram Unit: mm WWW.PHIHONG.COM



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.