



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



### 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: 140.1mm (5.52in.)
- Width: 45.5mm (1.79in.)
- Height: 30.0mm (1.18in.)
- Weight: 200g (7.04oz)

### Output Specifications

Model	Input Connector	Data Rate	DC Output Voltage	Load		Regulation <sup>1</sup>	
				Min.	Max.	Line	Load
POEA30U-1AT-R	C14	10/100/1000	56V	10mA	536mA	±5%	
POEA30U-1ATE-R <sup>2</sup>	C14	10/100/1000	56V	10mA	536mA	±5%	
POEA30U-1AT-2-R	C14	10/100/1000/2500	56V	10mA	536mA	±5%	
POEA30U-1AT-5-R	C14	10/100/1000/2500/5000	56V	10mA	536mA	±5%	
POEA30U-1AT-X-R	C14	10/100/1000/2500/5000/10000	56V	10mA	536mA	±5%	

Notes:

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

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**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**

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

**EMC**

ESD: IEC61000-4-2 , Level 3

RS: IEC61000-4-3, Level 3

EFT/Burst: IEC61000-4-4, Level 2

Surge: IEC61000-4-5, Level 3

CS: IEC61000-4-6 , Level 3

Voltage Dips: IEC61000-4-11, Class 3

Harmonic: IEC61000-3-2, Class A

**Isolation (HI-POT)**

4242VDC for 1 minute, 10mA

**Insulation Resistance**

Primary to secondary:&gt;10M Ohm 500VDC

**FEATURES:****Over Voltage Protection**

Non-Latching auto recovery

**Over Current Protection**

&lt;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 - U Models – three wire

**Output Connection**

56vdc RJ45 Pins 3&amp;6

56vrtn RJ45 Pins 1&amp;2

