

## 33W, IEEE802.3at Single Port PoE Active Injector



### Features

- IEEE802.3at Complaint
- DOE VI Efficiency
- Compact Size
- Limited Power Source
- Three Wire Input
- 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
- cUL/UL, 60950-1
- UKCA
- BSMI
- CCC
- PSB
- C<sub>2</sub>
- CE
- IEC62368-1
- RCM 62368-1
- KC+KCC
- EAC
- BSI

### Mechanical Characteristics

- Length: 140.1mm (5.51in.)
- Width: 45.5mm (1.79in.)
- Height: 30mm (1.18in.)
- Weight: 0.2kg (7.05oz)

### Output Specifications

Model	Data Speed	Output Power	DC Output Voltage	Load		Regulation <sup>1</sup>		Ripple <sup>2</sup>
				Min.	Max.	Line	Load	
POEA33U-1ATE-R	1G	33W	55V	≤10mA	600mA	53-56V		200mV

Notes:

1. Voltage measured within 5cm of the output RJ45 connector on data pairs 3,6(+) and 1,2(-)
2. Measured with by-pass capacitors 0.1uf/10uf at output connector terminal and oscilloscope set at 20Mhz. 20 minutes warm-up required when operating at negative temperature.

**POEA33U-1AT-R Characteristics<sup>1</sup>****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**  
70A max at 240VAC and max load  
(Cold Start at ambient 25°C)**OUTPUT:****Output Power**  
33W @ -10°C to +40°C, de-rated to 15W at  
50°C**Hold up Time**  
10mSec min at max load at 120VAC, 60Hz**Efficiency<sup>2</sup>**  
DOE Level VI**ENVIRONMENTAL****Temperature**  
Operating -10°C to +50°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) 4KV 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**  
150,000 Hours Min @ Max Load 115VAC  
25°C**FEATURES:****Over Voltage Protection**  
120VDC. Non-latching**Over Current Protection**  
≤750mA**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 shielded RJ45 Pins 3&6  
56VRTN shielded RJ45 Pins 1&2**Notes:**

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

**Dimensional Diagram Unit: mm**

