

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

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Features							
<ul> <li>IEEE802.3at 0</li> <li>DOE VI Effic</li> <li>Compact Size</li> <li>Limited Powe</li> <li>Three Wire In</li> </ul>	•	<ul> <li>Full Over-Voltage and Over-Current Protection</li> <li>Non-Vented Case</li> <li>1 Year Warranty</li> </ul>					
Applications							
<ul> <li>IP Telephones</li> <li>Wireless Acce</li> <li>Bluetooth<sup>®</sup> Acce</li> </ul>	•	<ul> <li>Security Cameras</li> <li>IP Print Servers</li> <li>WiMAX<sup>®</sup> Access Points</li> </ul>					
Safety Approvals							
<ul> <li>cUL/UL 62368-1</li> <li>cUL/UL, 60950-1</li> <li>UKCA</li> <li>BSMI</li> <li>CCC</li> <li>PSB</li> <li>Се</li> </ul>				CE IEC62368-1 RCM 62368-1 KC+KCC EAC BSI			
Mechanical Charact	teristics						
<ul><li>Length: 140.1</li><li>Width: 45.5m</li></ul>	•	<ul><li>Height: 30mm (1.18in.)</li><li>Weight: 0.2kg (7.05oz)</li></ul>					
Output Specifications							
Model	Data Speed	Output Power	DC Output Voltage	Lo: Min.	ad Max.	Regulation1LineLoad	- Ripple <sup>2</sup>

Notes:

POEA33U-1ATE-R

1. Voltage measured within 5cm of the output RJ45 connector on data pairs 3,6(+) and 1,2(-)

33W

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.

55V

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1G



≤10mA

600mA

200mV

53-56V



#### 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 @  $-10^{\circ}$ C to  $+ 40^{\circ}$ 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°CNon-operating-20°C to +70°CRelative Humidity5 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

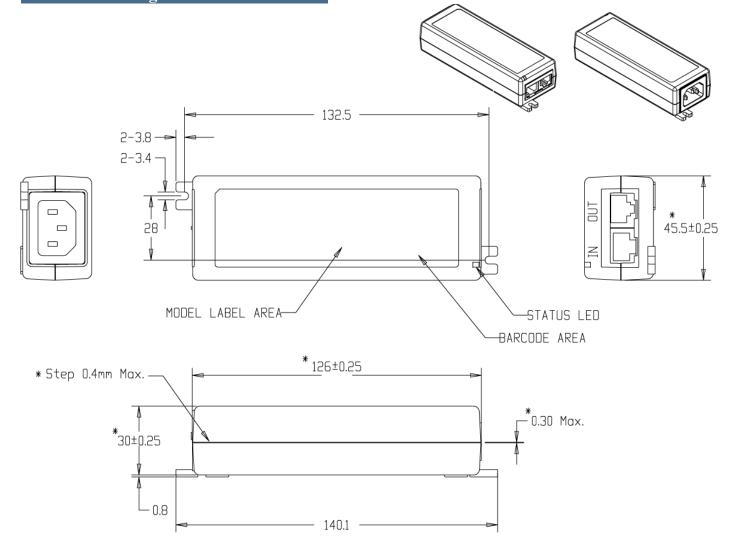
Notes:

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





# Dimensional Diagram Unit: mm



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