



## Single Port 30W Power-over-Ethernet



### Features

- Compliant with IEEE802.3at
- 10 to 55VDC Input
- 24VAC Input
- Non-Vented Case
- Full Over-Current, Over-Voltage, Short Circuit Protection
- Diagnostic LEDs
- 1 Year Warranty

### Applications

- Wireless Network Access Points
- Security Cameras

### Safety Approvals

- UL 62368-1
- IEC 62368-1

### Mechanical Characteristics

- Length: 163.85mm (6.45in)
- Width: 65mm (2.56in)
- Height: 37mm (1.46in)
- Weight: 0.25kg (0.55lbs)

### Output Specifications

Model	DC Output Voltage	Load		Output Power	Data Speed	Regulation <sup>1</sup>	
		Min.	Max.			Line	Load
POE30D-1ATP-R	56V	10mA	536mA	30W	1G	+1V/-2V	

Note:

1. Voltage measured within 5cm of output connector

**INPUT:****AC Input Voltage Range**

24VAC +/- 20% (19.2VAC to 28.8VAC)

**DC Input Voltage Range**

10 to 55VDC

**AC Input Current**

3A (RMS) max at 19.2 VAC

1.7A (RMS) max at 28.8 VAC

**DC Input Current**

4A DC Max, Full Load

**Leakage Current**

1mA max at 28.2 VAC, 60Hz

**AC Input Frequency**

47-63Hz

**AC Inrush Current**

10A max at 19.2VAC, full load

15A max at 28.8VAC, full load

(Cold Start @ 25°C)

**OUTPUT:****Total Output Power**

30W @50°C, 22.5W @60°C, 15W @70°C

**Ripple<sup>3</sup>**

200mV max @25°C

**Efficiency**

83% Typical

**ENVIRONMENTAL:****Temperature**

Operation -20 to +80°C

Non-operation -40 to +75°C

Operating Humidity 5% to 90% RH

**EMC**

Complies with FCC Part 15 Class A

Complies with EN55032 Class A

**Immunity**

Harmonic: EN61000-3-2 Class A

ESD: EN61000-4-2 Contact 6KV

Air 8KV. Criteria A

RS: EN61000-4-3 3V/M

EFT: EN61000-4-4 1KV, Criteria A

Surge: EN61000-4-5 1KV

CS: EN61000-4-6 3V

Voltage Dips EN61000-4-11 Class 3

**Dielectric withstand (HI-POT)**Primary to Secondary: 500VDC for 1 min.,  
10mAPrimary to Earth Ground: 500VDC for 1min,  
10mA**Insulation Resistance**

Primary to Secondary: &gt;10M OHM 500VDC

Primary to Earth Ground: &gt;10M OHM

500VDC

**FEATURES:****Over Current Protection**

≤750mA

**Over Voltage Protection**

&lt;120Vdc. Non-latching.

**Short Circuit Protection**

Non-latching. Auto-recovery.

**Hold-up Time**

10mS min. 24VAC/60Hz and max load

**Input Connector**

ANYTEK 3Pin terminal block

**Output Connector**

Unshielded RJ45

**Output Connection**

+pins 3,4,5,6 / -pins 1,2,7,8

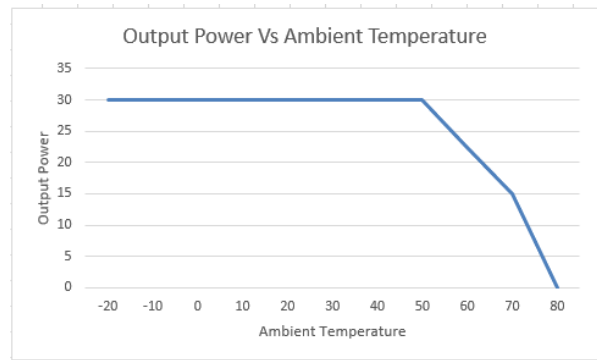
**Notes:**

2. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
3. Measured with by-pass capacitors 0.1uf/10uf at output connector terminal and oscilloscope set at 20Mhz (tested by oscilloscope). 20 minutes warm-up required when operating at negative temperature.

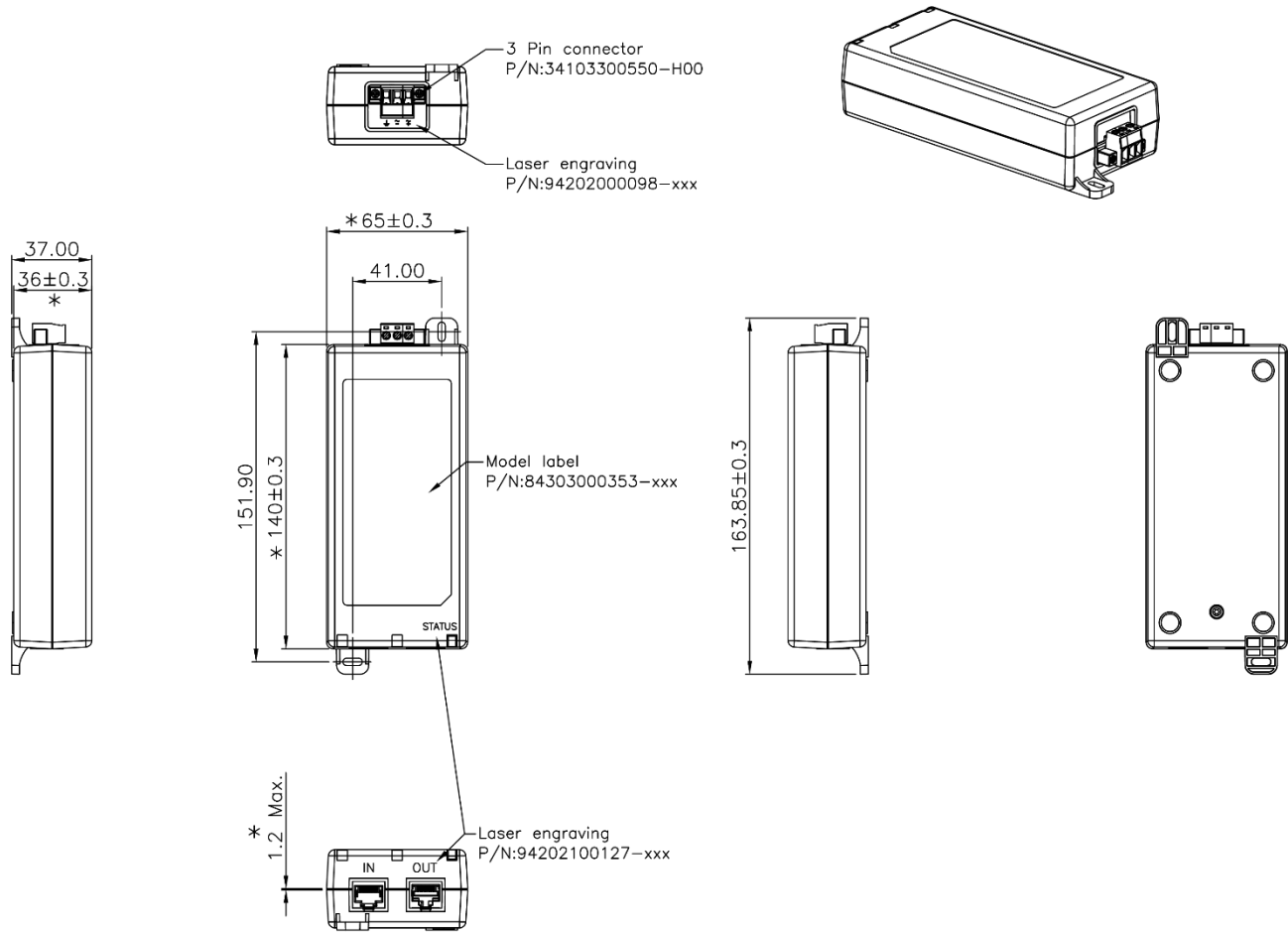
**LED Indicators**

- Green Blinking – No load
- Green Solid – Valid POE load
- Red Long Blink, Green Short Blink – POE OCP & SCP
- Alternating Red and Green Blinking – Invalid PD signature

**Derating Curve**



**Dimensional Diagram Unit: mm**





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

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*This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*