

TECHNICAL DATASHEET

Single Port 30W Power-over-Ethernet

**Applications**

- Wireless Network Access Points
- Security Cameras

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

Safety Standards

- UL 62368-1
- IEC 62368-1

Dimensions

163.85 x 65 x 37 mm
(6.45 x 2.56 x 1.46 inch)

Weight

0.25kg
(0.55lbs)

Output Specifications

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

Notes

1. Voltage measured within 5cm of output connector.

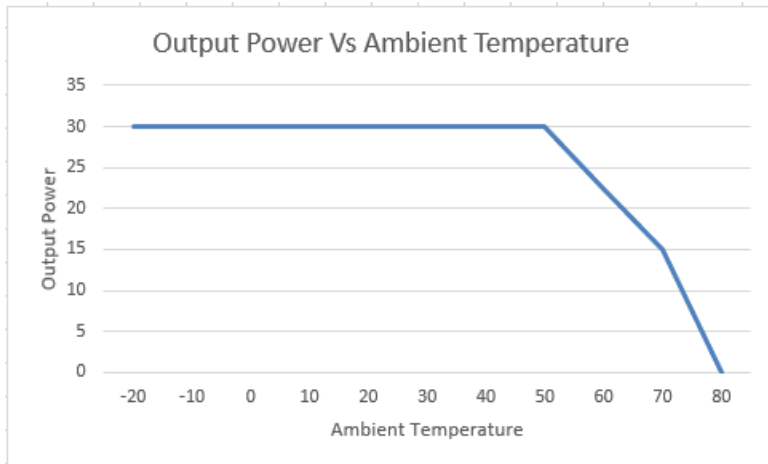
Characteristics

POE30D-1ATP-R

INPUT	
AC Input Voltage Rating	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	
Output Power	30W @50°C, 22.5W @60°C, 15W @70°C
Ripple ³	200mV max @25°C
Efficiency	83% Typical
ENVIRONMENTAL	
Temperature	Operating -20°C to +80°C Non-operating -40°C to +75°C Relative Humidity 5 to 90%
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., 10mA Primary to Earth Ground: 500VDC for 1min, 10mA
Insulation Resistance	Primary to Secondary: >10M OHM 500VDC Primary to Earth Ground: >10M OHM 500VDC
FEATURES:	
Over Current Protection	≤750mA
Over Voltage Protection	<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
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

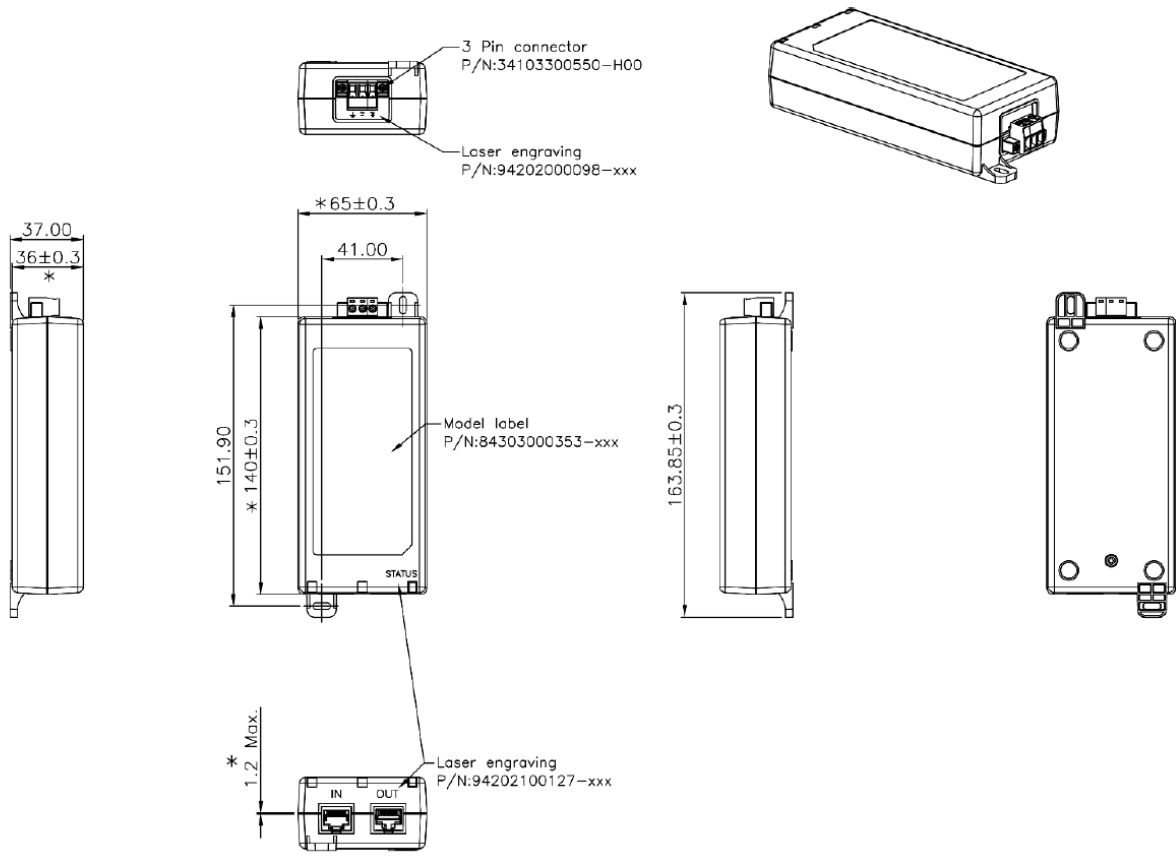
Derating Curve



Notes:

- The characteristics defined are at ambient temperature of 25°C unless otherwise specified
- 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.

Dimensional Diagram Unit: mm



Phihong Locations



Headquarters Phihong Technology Co., Ltd
No. 568, Fuxing 3rd Rd., Gueishan Dist., Taoyuan City (33383), Taiwan
Tel : +886-3-3277288
Fax : +886-3-3277622
phsales@phihong.com.tw
www.phihong.com.tw



Phihong Technology Co. Ltd. (Tainan R&D Center)
No. 99, Zhengnan 1st. Street, Yongkang Dist., Tainan City 71046, Taiwan
Tel : +886-6-254-7588
Fax : +886-6-254-7288
phsales@phihong.com.tw
www.phihong.com.tw



Phihong China
Room 101, Building 5, 133-1 Tiesong Road, Qingxi Town, Dong Guan City, Guangdong (523642), China
Tel : +86-769-87736405
phsales@phihong.com.tw



Phihong USA
47800 Fremont Blvd., Fremont, CA 94538, U.S.A.
Tel : +1-510-445-0100
Fax : +1-510-445-1678
usasales@phihongusa.com
www.phihong.com



Phihong Japan
PMOEX Nihonbashi Kayabacho 10F, 2-12-10
Nihonbashi Kayabacho, Chuo City, Tokyo 103-0025 Japan
Tel : +81-3-6626-5513
Fax : +81-3-6629-0241
phsales@phihong.com.tw
www.phihong.co.jp



Phihong Vietnam
Lot CN5 An Duong Industrial Zone, Hong Phong Commune,
An Duong County, Hai Phong City, Vietnam
Tel : +84-22588-31557