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30W Single Port Power over Ethernet Midspan
IEEE802.3at Compliant Power Injector



Features

- Compliant with IEEE802.3at Standard
- Non-vented Case
- Full Protection OVP, OCP
- 1 year warranty
- Limited Power Source
- Gigabit Compatible
- Shielded RJ45

Applications

- IP Telephones
- Wireless Access Points
- Bluetooth® Access Points
- Security Cameras
- IP Print Servers
- WiMAX® Access Points

Safety Approvals

- cUL/UL(60950)/(62368-1)
- CB
- CCC
- BSMI
- EAC
- IRAM(TUV-s)
- CE(IEC60950-1)/(IEC62368-1)
- RCM
- NOM/NYCE
- PSB
- KC+KCC
- BIS

Mechanical Characteristics

- Length: 140mm (5.51in.)
- Width: 65mm (2.55in.)
- Height: 36mm (1.42in.)
- Weight: 0.22Kg (7.76oz)

Output Specifications

Model	AC Input	DC Output Voltage	Load		Regulation	
			Min.	Max.	Line	Load
POE29U-1AT(PL)D-R	Three Wire	56V	10mA	536mA	54-57V	

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POE29U-1AT(PL)D-R Characteristics[1] WWW.PHIHONG.COM

INPUT:

AC Input Voltage Rating
100 to 240VAC

AC Input Voltage Range
90 to 264VAC

AC Input Current
0.8A (RMS) maximum at 120VAC
0.55A (RMS) maximum at 240VAC

AC Input Frequency
47 to 63Hz

Leakage Current
3.5mA max

Max In-rush Current
60A max at 240VAC and max load (Cold Start at ambient 25°C)

OUTPUT:

Output Power
30W

Hold up Time
10mSec min at max load at 120VAC, 60Hz

Efficiency[2]
80% Typical at max load at 120VAC, 60Hz

ENVIRONMENTAL:

Temperature

Operating	-20°C to +50°C
Non-operating	-20°C to +70°C
Relative Humidity	5 to 90%

EMI
Complies with EN55032 Class B
Complies with 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
Harmonic:	IEC61000-3-2, Class A

Isolation (HI-POT)
Primary to secondary: 1500VAC for 1 minute, 10mA

Insulation Resistance
Primary to secondary: 10M Ohm 500VDC

FEATURES:

OCP/OVP/Short Circuit Protection
OCP: ≤750mA Max
OVP: Latching
Short Circuit: The output can be shorted permanently without damage. Non-latching auto recovery.

Indicator
*Solid Gree*n: unit has detected a IEEE802.3at or af load/PD
Blinking Green: Power "ON" ready for connection
Fast Blinking Amber/Green: Invalid load connected
Slow Blinking Amber/Green: fault

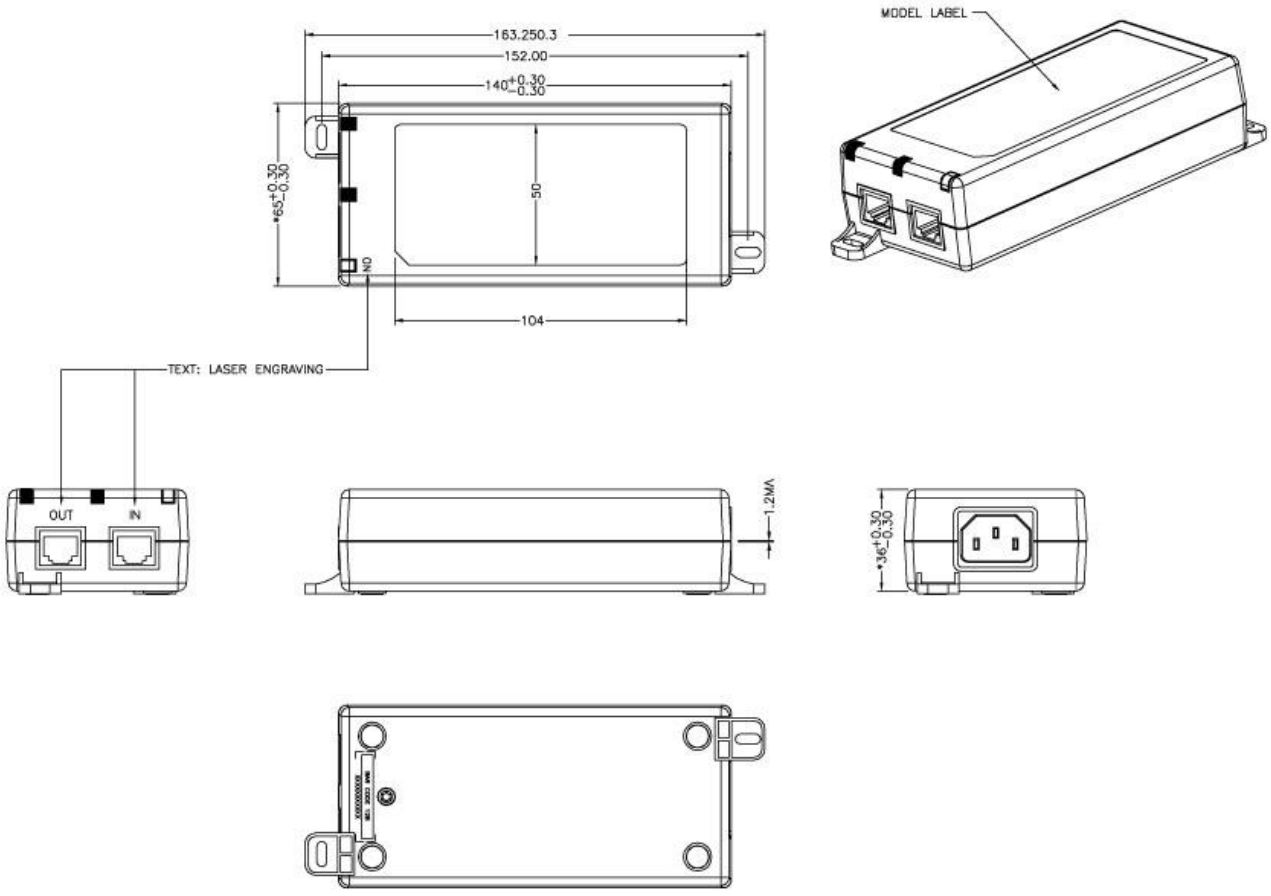
AC Input Connector
IEC320 C14 - three wire

Output Connection
+pins 3,6 / -pins 1,2

Data IN/POE OUT Connector
Shielded RJ45

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

Dimensional Diagram Unit: mm WWW.PHIHONG.COM





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.

Mouser Electronics

Authorized Distributor

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Phihong:
POE29U-1AT(PL)D