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[Phihong USA](#)
[POE75U-1UP\(PD\)](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

WWW.PHIHONG.COM



75W Power over Ethernet Adapter Ultra Power over Ethernet Single Port Injector



Features

- Compliant Detection, Disconnect and Voltage Control per IEEE802.3af
- Diagnostic LEDs
- Gigabit Compatible
- 1 Year Warranty
- 25K Detection for Full Power
- Proprietary Detection, Disconnect and Overload Protection
- Full Protection OCP, OVP
- Single Source 4 Pair Power Current Sharing
- Broken Wire Detection
- Class 4 Operation

Applications

- Satellite Receiver
- Wireless Network Access Points
- LCD Displays
- Security Cameras
- Kiosks
- Computer Workstations

Safety Approvals

- cUL/UL
- CE

Mechanical Characteristics

- Length: 166mm (6.53in)
- Width: 80mm (3.15in)
- Height: 44mm (1.73in)
- Weight: 0.5Kg

Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.*	Line	Load
POE75U-1UP(PD)	56V	0A	0.67A	54-57V DC under all conditions	

Note (*) = Load per output. Output on spare pairs and data pairs is 0.67A for a combined output current of 1.34A.

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POE75U-1UP-PD Characteristics

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INPUT:

AC Input Voltage Range

90 to 264VAC

AC Input Voltage Rating

100 to 240VAC, 47-63Hz

AC Input Current

2.0A (RMS) maximum for 90VAC

1.2A (RMS) maximum for 240VAC

Leakage Current

3.5mA maximum @ 254VAC 60Hz

AC Inrush Current

30A (RMS) maximum for 115VAC

60A (RMS) maximum for 230VAC

OUTPUT:

Total Output Power

75W

Ripple and Regulation

250mV maximum

DC Offset

No data degradation with DC imbalance 18mA per min.

Efficiency

80% (typical) at maximum load, and 120VAC 60Hz

Hold-up Time

10mS min. 120VAC and maximum load

Transient O/P Voltage Protection

60V maximum

ENVIRONMENTAL:

Temperature

Operation -20 to +40°C

Non-operation -25 to +65°C

Humidity

Operation 5 to 90%

EMC

FCC Part 15 Class B

EN55022 Class B

Isolation Test

Primary to Secondary: 4242VDC for 1 minute 10mA

Primary to Field Ground: 2121VDC for 1 minute

Output to Field Ground: 2121VDC

Immunity

ESD: EN61000-4-2. Level 3

RS: EN61000-4-3. Level 3

EFT: EN61000-4-4. Level 2

Surge: EN61000-4-5. Level 3

CS: EN61000-4-6. Level 2

Voltage Dips EN61000-4-11

Harmonic: EN61000-3-2 Class A

Insulation Resistance

Primary to Secondary: >10M OHM 500VDC

Primary to Field Ground: >10M OHM 500VDC

Detection

Requires 25K detection on data pairs 3,6(+) 1,2(-) for full power 75W

FEATURE:

Over Voltage/Current, Short Circuit Protection

Outputs equipped with short circuit protection and overload protection. The output can be shorted permanently without damage.

Indicators

Green LED 1: DC Power "OK"

Red LED: Fault detected

Green LED 2: Power detected "CONNECT" at 75W

Input Connector

IEC320 inlet 3 pin

Output Connection

4-pair powering

Pins 3,6, 4,5(+) Pins 1,2, 7,8 (-)

Warranty

1 Year

POE75U Design Dimensions (mm)

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