

Excellent Integrated System Limited

Stocking Distributor

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[Phihong USA](#)
[POE80U-560\(G\)](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

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**80W Power over Ethernet Midspan
High Power Single Port Injector**



Features

- Fully Compliant Detection, Disconnect and Voltage Control per IEEE802.3af
- Diagnostic LEDs
- Gigabit Compatible
- 1 Year Warranty
- Single Source 4-Pair Powering
- Wide Operating Temperature Range
- Full Protection OCP, OVP, OTP
- Broken Wire Detection

Applications

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

Safety Approvals

- cUL/UL
- CE
- C-Tick
- IRAM
- CCC
- SAA
- Korea (PHC)

Mechanical Characteristics

- Length: 203mm (8in)
- Width: 108mm (4.25in)
- Height: 63mm (2.5in)
- Weight: 1.93Kg (4.5lbs)

Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE80U-560(G)	+56V	0A	0.72A	54-57V DC	

Note: Output measured over data and spare pairs for combined 1.43A output.

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POE80U Characteristics

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INPUT:

AC Input Voltage Range

85 to 264VAC

AC Input Voltage Rating

100 to 240VAC

Input Frequency

47 to 63Hz

AC Input Current

2.0A (RMS) maximum for 90VAC
1.2A (RMS) maximum for 240VAC

AC Inrush Current

50A (RMS) maximum for nominal input

OUTPUT:

Total Output Power

80W

DC Offset

No data degradation with DC imbalance 18mA per min.

Ripple and Regulation (P-P)

100mV maximum

Efficiency

75% (typical) at maximum load, and 120VAC 60Hz

Hold-up Time

10mS min. 120VAC and maximum load

Transient O/P Voltage Protection

60V maximum at switch on/off at any point on the AC line phase

ENVIRONMENTAL:

Temperature

Operation -40 to 55C
Non-operation -50 to +85C

Humidity 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 2
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

Insulation Resistance

Primary to secondary: >10M OHM 500VDC
Primary to Field Ground: >10M OHM 500VDC

IEEE802.3af/at Interoperability

UNH Interoperability report available upon request

FEATURE:

Detection

12.5K ohm detection resistor value required to turn on full power (4-pairs)

Over Voltage/Current, Short Circuit Protection

Outputs equipped with short circuit protection and overload protection as per 802.3af specifications except max average pair current is 0.72A, Peak 1.4A per pair. The output can be shorted permanently without damage.

Indicators

Green LED 1: DC Power "ON"
Red LED: Fault detected
Green LED 2: Power detected "CONNECT" at 80W

Input Connector

IEC320 inlet 3 pin

Output Connection

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

Warranty

1 Year

Dimension Diagram Unit: mm

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