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19.6W Power Over Ethernet Adapter POE20U High Power single port injector.

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InterOperability Laboratory Part of the University of New Hampshire Research Computing Center

Features

- Fully Compliant detection, disconnect, over load and voltage control IEEE802.3af
- Diagnostic LEDs
- Non-Vented Case

Applications

- IP Telephones
- Wireless Network Access Points
- Blue Tooth Access Point

Safety Approvals

- cUL/UL
- CE

Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 65mm (2.55in)

- Height: 36mm (1.42in)
- Weight: 0.2Kg (0.44lb.)

UNH IOL Test Report

Gigabit Compatible

Security Camera

IP Print Servers

Full Protection OCP, OVP

Output Specifications

Model	DC Output Voltage	Load		Regulation	
POE20U-560(POE)	56V	Min.	Max.	Line	Load
		0A	0.35A	$\pm 4\%$	

Ripple And Noise*	Vp-p*
<500Hz	0.5
500Hz-150KHz	0.15
150KHz-500KHz	0.15
500KHz-1MHz	0.1

*As per IEEE802.3af Table 33-5.

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• TUV

POE20U Characteristics

INPUT: AC Input Voltage Range 90 to 264VAC

AC Input Voltage Rating 100 to 240VAC

AC Input Current 0.5A(RMS) max. for 90VAC 0.35A(RMS) max. for 240VAC

Leakage Current 0.25mA max. @ 254VAC 60Hz

AC Input Frequency 47-63Hz

AC Inrush Current 15A(RMS) max. for 115VAC 20A(RMS) max. for 230VAC

OUTPUT: Total Output Power 19.6W

Efficiency 65% (typical) at Max. load, and 120VAC 60Hz

Hold-up Time 16mS min. 120VAC and max. load

Transient O/P Voltage Protection

60V max. at switch on and off at any AC line Phase

ENVIRONMENTAL:

Temperature Operation Non-operation

0 to +40°C -25 to +65°C

Humidity Operation

5 to 90%

Dimension Diagram Unit: mm (inch)

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EMC

FCC Part 15 Class B EN55022 Class B

Isolation Test

Primary to Secondary: 3000VAC for 1 minute 10mA Primary to F.G.: 1500VAC for 1 minute Output to F.G.: 1500VAC

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 FC: >10M OHM 500VDC

FEATURE:

Over Voltage/Current, Short Circuit Protection

Outputs equipped with short circuit protection and overload protection as per 802.3af specification The output can be shorted permanently without damage

Indicators

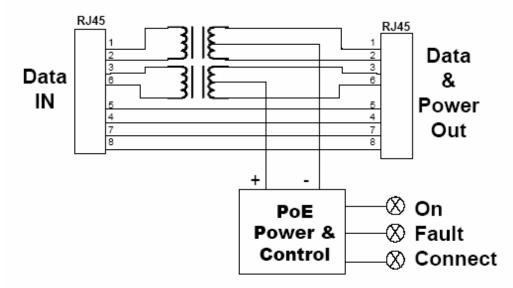
Led #1 indicator for input power "on" GREEN Led #2 Indicator for fault-RED Led #3 Indicator that Detected and Connected to valid IEEE802.3af load-GREEN

Input Connector

IEC320 inlet 3 pin



POE20U-560G Schematic Block Diagram



Description of LED Functions for POE20U-560G

Power-up Sequence:

Upon power-up, all 3 LEDs will light for 2 seconds, as part of the self-test for the internal microprocessor software. After the end of the 2 seconds, the "ON" LED will illuminate green, signifying that the DC output voltage is available for powering a compliant load (to the 802.3af PoE standards).

Detection Sequence:

Once a compliant load is attached to the output RJ45 connector, the green "CONNECT" LED will illuminate.

Should the load be non-compliant then the LEDs will blink a code signifying the cause for non-detection.

Detection Failure Codes:

- 1. Incorrect resistive signature The green "CONNECT" and red "FAULT" LEDs will blink 3 times.
- 2. Incorrect capacitive signature The green "ON" LED will blink 3 times.
- 3. Incorrect Voffset The green "CONNECT" and green "ON" LEDs will blink 3 times.
- 4. Unstable current measurement The green "ON" LED will blink 3 times
- 5. Low voltage sensed during detection (overload) The red "FAULT" LED will blink 3 times

After the LEDs blink 3 times the PSA16U-480 (POE) will continue to try to detect a valid load. Therefore, until the correct load is applied, the LEDs will continue to blink. If there is an open circuit connected to the output RJ45 then the LEDs will not blink but the PSA16U-480(POE) will continue to try to detect a valid load.

Fault Sequence:

Should there be a fault such as an overload or short circuit then the red "FAULT" LED will illuminate. The red "FAULT" LED will illuminate for 2 seconds and then go off as the power supply tries to redetect a valid load. If there is a problem in detecting, the LED will indicate what is wrong with the load as per the codes in the section above.