



## Single Port 15.4W Power over Ethernet Adapter PSA16U IEEE 802.3af Compliant



### Features

- Fully Compliant Detection, Disconnect, Overload and Voltage Control IEEE802.3af
- Data and Power Carried over One Ethernet Cable
- Internal Signature Resistance IEEE802.3 standard
- UNH IOL Test Report
- Diagnostic LEDs
- Full Protection OTP, OCP, OVP
- Non-Vented Case
- Guaranteed Protection
- 1 Year Warranty

### Applications

- IP Telephones
- Wireless Network Access Points
- Blue Tooth Access Points
- Security Cameras
- IP Print Servers

### Safety Approvals

- cUL/UL
- CE
- S-Jet
- SAA
- VCCI
- C-Tick

### Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 65mm (2.55in)
- Height: 36mm (1.42in)
- Weight: 0.2Kg (0.44lb.)

### Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
PSA16U-480(POE)	48V	0A	0.32A	±4%	

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications and contact information.

**INPUT:****AC Input Voltage Range**

90 to 264VAC

**AC Input Voltage Rating**

100 to 240VAC

**AC Input Current**

0.5A (RMS) maximum for 90VAC

0.35 A(RMS) maximum for 240VAC

**Leakage Current**

0.25mA maximum @ 254VAC 60Hz

**AC Input Frequency**

47-63Hz

**AC Inrush Current**

15A (RMS) maximum for 115VAC

20A (RMS) maximum for 230VAC

**OUTPUT:****Total Output Power**

15.4W

**Ripple and Regulation**

100mV maximum

**Efficiency**

65% (typical) at maximum load, and 120VAC 60Hz

**Hold-up Time**

16mS min. 120VAC and maximum load

**Transient O/P Voltage Protection**

60V maximum at switch on and off at any AC line Phase

**ENVIRONMENTAL:****Temperature**

Operation 0 to +40°C

Non-operation -25 to +65°C

**Humidity**

Operation 5 to 90%

**EMC**

FCC Part 15 Class B

EN55022 Class B

VCCI, C-Tick

**Isolation Test**

Primary to Secondary: 3000VAC for 1 minute 10mA

Primary to Field Ground: 1500VAC for 1 minute

Output to Field Ground: 1500VAC

**Immunity EN50082-1**

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: &gt;10M OHM 500VDC

Primary to Field Ground: &gt;10M OHM 500VDC

**FEATURE:****Over Voltage/Current, Short Circuit Protection**

Outputs equipped with short circuit protection and overload protection as per 802.3af specifications

The output can be shorted permanently without damage

**Indicators**

Green LED 1: Power detected "ON"

Red LED: Fault detected

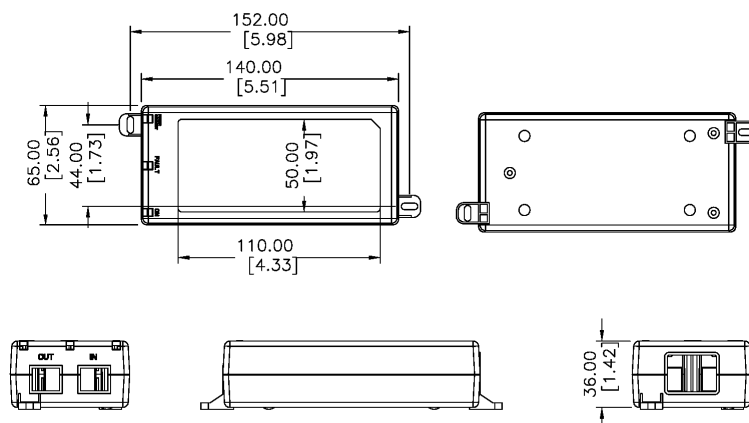
Green LED 2: Valid IEEE802.3af load detected and connected

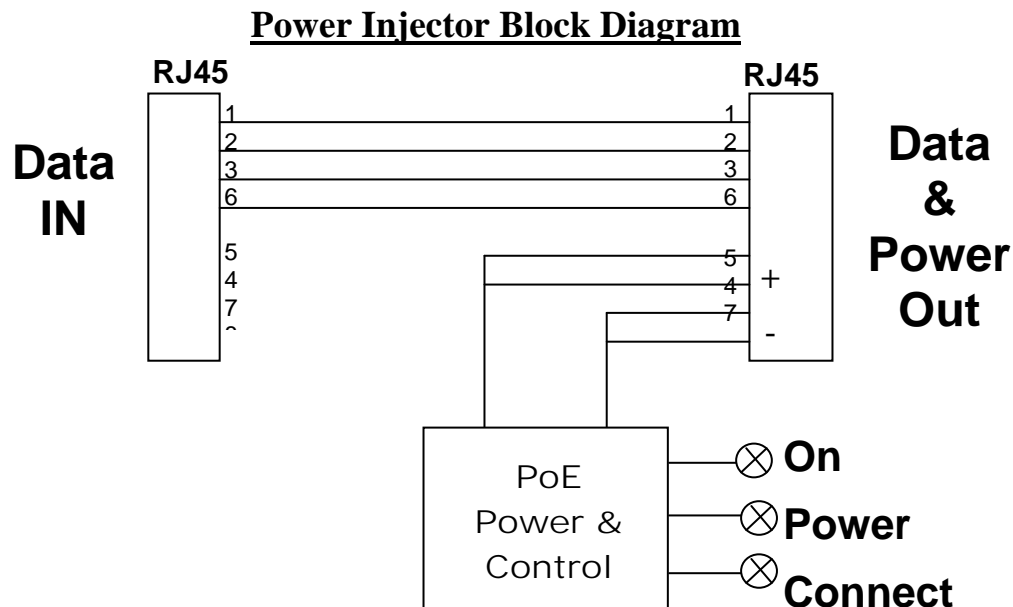
**Input Connector**

IEC320 inlet 3 pin

**Warranty**

1 Year

**Dimension Diagram Unit: mm (inch)**



### **Description of LED Functions for Power Injector**

#### **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 2 second period, the "ON" LED will illuminate green. The DC output voltage is now 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 specific to 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 Power Injector will continue to try to detect a valid load. 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 Power Injector 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 re-detect a valid load. If there is a problem detecting the load, the LEDs will indicate a possible fault as per the codes in the section above.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)