

# PSE101 series Unmanaged POE Injectors User manual

## 【Introduction】

PSE101 series are Single-port PoE injector, Compliant with IEEE 802.3af/at PoE Standard, support output power of 15.4W or 30W,Supply power to wireless AP, surveillance cameras, IP phones, PDAs and other PoE PDs through a single network cable together with data transmission .Transmission distance up to 100m,Adopt plug-and-play design, easy to instal, Excellent choice for Wireless City, Security Surveillance Industry or other network construction.

## 【Packing List】

Please check the packaging and accessories by your first using.

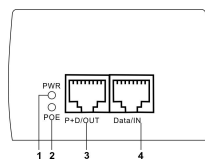
- POE Injectors × 1
- AC Power Cord x1
- User's Guide × 1
- Certificate of quality × 1
- Warranty card × 1

## 【Features】

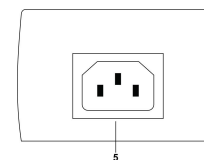
- Compatible with IEEE802.3at(30W) or IEEE802.3af(15.4W), can supply power to PDs under the two standards
- Automatically detects and supplies power to IEEE802.3at or IEEE 802.3af compliant powered devices(PDs)
- Advanced SAFC function,only supply power to IEEE only supply power to IEEE 802.3af/at compliant PDs
- Up to 100m network cable transmitting distance
- Special design for free series connection among multiple PoE injectors
- High security performance defending against power surge

## 【Panel Layout】

### Front panel

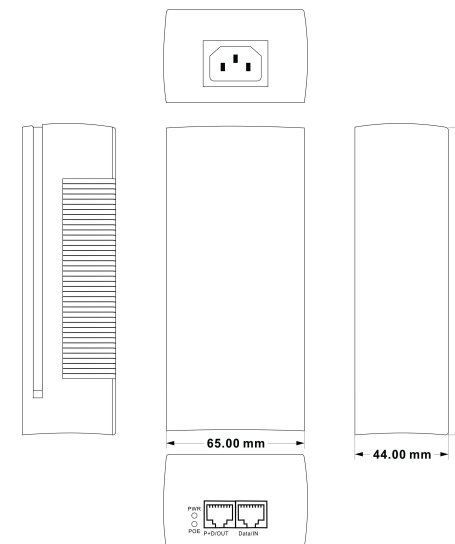


### Back panel

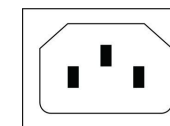


1. Power Indicator
2. POE power Indicator
3. POE port
4. 100M Ethernet Data port
5. AC power input socket

## 【Dimension】



## 【Power Input】



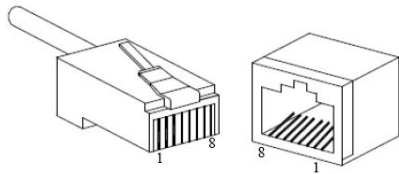
PSE101 series provides three power socket rear panel Used in the AC power input (220 VAC)

## 【Communication Connector】

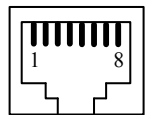
PSE101 series provides 1\*10/100M POE ports, 1\*10/100M ports. **10/100BaseT(X) Ethernet port**

The pinout of RJ45 port display as below, connect by UTP or STP. The connect distance is no more than 100m. 100Mbps is used

120 Ω of UTP 5 , 10Mbps is used 120 Ω of UTP 3,4,5.



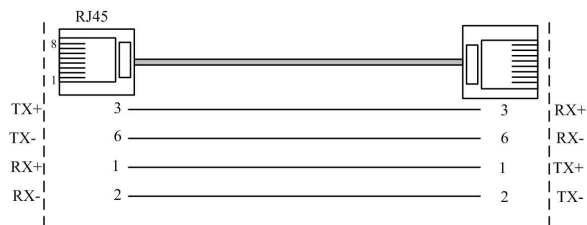
RJ 45 port support automatic MDI/MDI-X operation. can connect the PC, Server, Converter and HUB .Pin 1,2,3,6 Corresponding connection in MDI. 1→3,2→6,3→1,6→2 are used as cross wiring in the MDI-X port of Converter and HUB. 10Base-T/100Base-TX are used in MDI/MDI-X, the define of Pin in the table as below.



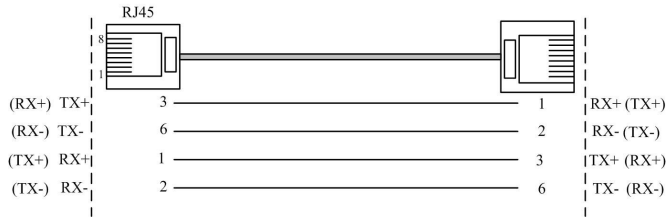
NO.	MDI signal	MDI-X signal
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4、5、7、8	—	—

Remark: “TX±” Transmit Data±, “RX±” Receive Data±, “—” Not Use.

### MDI (straight-through cable)



### MDI-X (Cross over cable)



MDI/MDI-X auto connection makes PSE101 series easy to use for customers without considering the type of network cable.

### 【LED Indicator】

PSE101 series indicator light on the front panel. the function of each LED is described in the table as below.

System Indication LED		
LED	State	Description
PWR	ON	Power is being supplied to power input PWR input
	OFF	Power is not being supplied to power input PWR input
POE	ON	POE power supply works.
	OFF	No POE power supply.
	Blinking	The POE port is failed or PD connection is overloaded, please remove PDs and reconnect after checking.

### 【Installation】

#### Operation Cautions

- 1) Don't stock the device in damp environment or near water, to avoid water or moisture penetrating into the inner device.
- 2) Don't put the device on a unstable box or desk, the device will get damaged from falling.
- 3) Please check and make sure the operation voltage is meet the voltage standard marked on the device surface before the next steps.

- 4) Please use a grounded three-hole power socket in the rack or desk mounting, to mitigate damage caused by electro-static discharge or lightning stroke.
- 5) Keep the device far from heat sources, strong power radio transmitters and radar transmitters.
- 6) Similar with other electrical products, the semiconductor chip in device will get damaged when open and shut off the power frequently. Please restart the device 3~5 seconds(or longer) after the power is shut off.
- 7) Please pull out the power plug before cleaning the device. Don't wipe the device with wet cloth or clean the device with liquid.
- 8) To guarantee a long operation life, the device can only be used in indoor and in ventilated & dry environment. And to get a good heat dissipation, please reserve a space over 10CM around the device.

### POE Injector Operation Instruction

- 1) Connect the provided power cord to AC/IN 90~264V Socket, PWR LED indicator will be on if the power connection is successful.
- 2) Plug the short RJ 45 cable(provided) into “Data/IN” port of POE injector, the RJ 45 cable connected with a Ethernet switch on the other end.
- 3) Connect the “P+D/OUT” port of POE injector to PDs through another RJ 45 cable( not provided), when the POE LED indicator is on, the connection is successful. You can start transmitter power and data together via a single RJ 45 cable.



**Note :** The “POE” LED indicator will be on only when the “P+D/OUT” port connected with POE supported PDs.

## 【Specification】

### Technology:

POE Standard: IEEE802.3af

### Ports:

Fixed ports: 2\*10/100M Base-T Ports(including one POE ports)

POE Pin-out: 1/2(+), 3/6(-); Customized 4/5(+),7/8(-)

### Exchange Properties:

Physic Medium:

10/100Base-TX: UTP category 3/4/5 cables( Maximum 100m)

Network Cable Deployment: Support Auto-MDIX function , can automatically identify straight forward cable and cross-over cable

Negotiation Pattern: Support port auto-negotiation function( automatically negotiate transmission rate and Duplex modes)

### Indicator light:

LED Indicator: Power/PoE Status

### Power:

Max Output Power(single port): 15.4W or 30W

Input Power Supply:

PSE101-15W:90~264VAC/50~60Hz/15W

PSE101-30W:90~264VAC/50~60Hz/30W

### Working Environment:

Operation Temperature: -20~50°C

Storage Temperature: -40~70°C

Operation Humidity:10%~90%(non-condensing)

Storage Humidity:5%~95%(non-condensing)

### Mechanical Properties:

Weight: 200g

Dimensions (L×W×H) :145\*65\*44mm

### Warranty:

Warranty time: 3 years