

## Passive PoE to 802.3af/at Converter

### Features

- Converts 24VDC Passive PoE to 56VDC 802.3af/at 35W PoE Output
- Run 802.3af/at equipment from 24VDC Passive PoE switches like Tycon® TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™
- PoE output up to 35W
- Remotely Power Equipment thru CAT5/6 Cable up to 100m
- Short Circuit, Over Current and Over Voltage Protection



*TP-POE-2456D  
Passive POE to 802.3af/at POE  
Converter*

### Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems

### Description

The TP-POE-2456D is a unique Power over Ethernet adapter which converts a 24VDC passive PoE input to an 802.3af/at 56VDC PoE output. The only connections required are CAT5/6 cables. The IEEE 802.3af/at compliant PoE output is capable of up to 35W power output. The PoE input is 22V to 36VDC passive PoE so the TP-POE-2456D is perfect for running IP PoE Cameras or other PoE devices from passive PoE switches like the Tycon® TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™.

The units supply power to the remote device on the unused Ethernet pins 4,5(V+) and 7,8(V-). The Ethernet spec supports distances up to 100m (328 feet).

They have various protections for surge, short circuit, overload and overvoltage.

### Device Pinouts

RJ-45 Input (Data & Power)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	+Vdc	DC power(+)	+Vdc	DC power(+)
5	+Vdc	DC power(+)	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	-Vdc	DC power(-)	-Vdc	DC power(-)
8	-Vdc	DC power(-)	-Vdc	DC power(-)

## Specifications

TP-POE-2456D	
<b>Passive PoE Input Voltage</b>	22VDC to 36VDC
<b>Output Overvoltage Protection</b>	58V
<b>PoE Output</b>	56VDC 802.3af and 802.3at compatible
<b>Output Current</b>	0.625A @ 56V
<b>Output Power</b>	35W Max
<b>Load Regulation</b>	5%
<b>Ripple / Noise</b>	2%
<b>LED Function</b>	RED = 24V Input power is ON GREEN = Successful 802.3at handshake. Output power ON
<b>Operating Temperature</b>	-30 to +60°C (-22 to +140°F)
<b>Operating Humidity (RH)</b>	5% - 90%
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)
<b>Dimensions (LxWxH)</b>	85 x 76 x 36mm (3.4 x 3 x 1.4")
<b>Weight</b>	150g (5.3oz)

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power®, Power Sources carry a 3 year warranty

## System Ordering:

**TP-POE-2456D** 24VDC Passive PoE to 802.3af/at PoE 35W Converter

## For further information contact:

Tyconsystems.com

