

POE Power Sources

Features

- Remotely Power Equipment thru CAT5 Cable up to 100m
- Built in Ethernet and AC Surge Protection
- Autoranging Switching Power Supply
- Short Circuit, Over Current and Over Voltage Protection
- Medium Power and High Power Models Available
- Various DC Voltage Outputs Available
- High Temperature Operation
- Compact size – Floor / Desktop / Wall Mount
- CE / FCC / UL / CB Approved



TP-POE Medium Power



TP-POE-HP High Power

Applications

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

Description

The TP-POE Passive Power Over Ethernet Power Sources offered by Tycon Power Systems are quality power sources for years of reliable operation even in the toughest conditions. They accept data-in to a shielded RJ45 Jack and provide surge protected data-out and power on the shielded RJ45 output jack. They work by supplying power to the remote device on the unused Ethernet pins 4,5(V+) and 7,8(V-). For the "R" model the voltage is reversed. 4,5(V-) and 7,8(V+). The Ethernet spec supports distances up to 100m (328 feet).

The TP-POE are autoranging so that they accept AC inputs from 90VAC to 264VAC (50/60 Hz) and they supply regulated DC Voltage at the output. They have various protections for surge, short circuit, overload and overvoltage. The medium power models (TP-POE) have power output up to 24W and the high power models (TP-POE-HP) up to 100W. They are available in 18V, 24V and 48V DC Output with load regulation within 5%. The CI model has an special current sense LED which changes color when a POE device is plugged into the CAT5 cable.

If the remote device does not support power over Ethernet, splitters (TP-POE-SPLT) are available to split the data and DC voltage at the remote device. If the remote device requires reverse voltage the POE-XOVER cable can be used.

Device Pinouts

RJ-45 Input (Data Only)			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	NC	No Connection	+Vdc (-V for R Model)	DC power(+) (- for R)
5	NC	No Connection	+Vdc (-V for R Model)	DC power(+) (- for R)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc (+V for R Model)	DC power(-) (+ for R)
8	NC	No Connection	-Vdc (+V for R Model)	DC power(-) (+ for R)

Specifications

	TP- POE-18	TP- POE-24	TP- POE-48	TP-POE- HP-18	TP-POE- HP-24	TP-POE- HP-48	TP-POE-HP-56
DC Output Voltage (+/-2.5%)	18V	24V	48V	18V	24V	50V	56V
Overvoltage Protection	22V	28V	52V	22V	28V	54V	60V
AC Input (50/60 Hz)	90-264VAC						
Max Inrush Current (120VAC)	30A						
Output Current	1A	0.8A	0.5A	2A	1.5A	1A	1.8A
Output Power	18W	19W	24W	36W	36W	50W	100W
Efficiency (min)	70%			80%			85%
Line / Load Regulation	1% / 5%						
Ripple / Noise	1% / 2%						
Surge Protection (+/- 4KV) (IEC 61000-4-2)	Ethernet: 4 Pin (1/2,3/6) Common Mode Protection, 7.5V Clamping Voltage 5.4A (8/20µs) Peak Pulse Current, <2pF Shunt Capacitance AC Input: Operating voltage = 385VDC, Clamping voltage = 775VDC, Maximum discharge current is 1200A(8/20us)						
EMC Standards	FCC Class B NE55022 Class B						
Safety Standards	UL1950, CSA 22.2 & TUV EN60950						
Operating Temperature	-30 to +60°C (-22 to +140°F)						
Operating Humidity (RH)	5% - 90%						
Storage Temperature	-40 to +80°C (-40 to +176°F)						
Dimensions (LxWxH)	85 x 76 x 36mm (3.4 x 3 x 1.4")			125 x 75 x 38mm (4.9 x 3 x 1.5")			116 x 150 x 41mm (4.6x5.9x1.6")
Weight	150g (5.3oz)			300g (10.6oz)			454g (16oz)

Notes:

- All shipments F.O.B. Draper, UT 84020
- Tycon Power Systems Power Sources carry a 1 year warranty

System Ordering:

TP-POE-18	18V 18W POE Power Source with US Power Cord*
TP-POE-24	24V 19W POE Power Source with US Power Cord
TP-POE-24R-CI	24V 19W POE Reverse Voltage Power Source with current indicator and US Power Cord
TP-POE-48	48V 24W POE Power Source with US Power Cord

TP-POE-HP-18	18V 36W High Power POE Power Source with US Power Cord
TP-POE-HP-24	24V 36W High Power POE Power Source with US Power Cord
TP-POE-HP-48	50V 50W High Power POE Power Source with US Power Cord
TP-POE-HP-56	56V 100W Very High Power POE Power Source with US Power Cord

*Add an "E" suffix for Euro power cord

POE-XOVER POE Voltage Crossover Cable - converts standard POE pin-out to reverse voltage pin-out

POE-SPLT Passive Splitter – 5.5/2.1mm DC Plug

POE-YSPLT Passive Y* Splitter – 5.5/2.1mm DC Plug
(*Power is supplied on both RJ45 and DC Plug)



For further information contact:

Tyconpower.com

