

### 100W POE Power Source

#### Features

- 100W Power
- 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
- 10/100/1000Mb Compatible
- High Temperature Industrial Operation
- Compact size – Floor / Desktop / Wall Mount



TP-POE-HP High Power

#### Applications

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

#### Description

The TP-POE-HP-56G Power Over Ethernet Power Sources offered by Tycon Power Systems are quality Gigabit midspan 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 all 8 Ethernet wires. The Ethernet spec supports distances up to 100m (328 feet).

The units are autoranging so that they accept AC inputs from 90VAC to 264VAC (50/60 Hz) and they supply regulated 56VDC at the output. They have various protections for surge, short circuit, overload and overvoltage. They have total power output up to 100W.

#### Device Pinouts

##### Gigabit Pinout

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data RX+	BI_DA+	Data RX(+), DC power(-)
2	BI_DA-	Data RX-	BI_DA-	Data RX(-), DC power(-)
3	BI_DB+	Data TX+	BI_DB+	Data TX(+), DC power(+)
4	BI_DC+	Data RX+	BI_DC+, Vo+	Data RX(+), DC power(+)
5	BI_DC-	Data RX-	BI_DC-, Vo+	Data RX(-), DC power(+)
6	BI_DB-	Data TX-	BI_DB-	Data TX(-), DC power(+)
7	BI_DD+	Data RX+	BI_DD+, Vo-	Data RX(+), DC power(-)
8	BI_DD-	Data RX-	BI_DD-, Vo-	Data RX(-), DC power(-)

**General Specifications**

<b>AC Input</b>	90-264VAC 47-63Hz
<b>POE Output</b>	56VDC 1.8A 100W on all 8 wires
<b>POE Type</b>	Passive
<b>Max Inrush Current (120VAC)</b>	30A
<b>Efficiency (min)</b>	85%
<b>Line / Load Regulation</b>	1% / 5%
<b>Ripple / Noise</b>	1% / 2%
<b>Protections</b>	Over-Voltage, Short Circuit, Over-Current
<b>Surge Protection (+/- 4KV) (IEC 61000-4-2)</b>	Ethernet: 4 Pin (1/2,3/6) Common Mode Protection, 7.5V Clamping Voltage 5.4A (8/20 $\mu$ s) Peak Pulse Current, <2pF Shunt Capacitance AC Input: Operating voltage = 385VDC, Clamping voltage = 775VDC, Maximum discharge current is 1200A(8/20us)
<b>Certifications</b>	FCC, CE
<b>EMC Standards</b>	FCC Class B EN55022 Class B
<b>Safety Standards</b>	UL1950, CSA 22.2 & TUV EN60950
<b>Environmental Standards</b>	RoHs
<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>Case Size</b>	116 x 150 x 41mm (4.6x5.9x1.6")
<b>Weight</b>	454g (16oz)

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Power Sources carry a 1 year warranty

**System Ordering:**

**TP-POE-HP-56G** 56V 100W Very High Power Gigabit POE Power Source with US Power Cord\*

\*Add an "E" suffix for Euro power cord

**For further information contact:**

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