TP-POE-HP-56G

DATA SHEET

112W PoE Power Source

Features

- **112W 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**
- **10/100/1000/5000Mb Compatible**
- **High Temperature Industrial Operation**
- **Compact size – Floor / Desktop / Wall Mount**

TP-POE-HP-56G 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® are quality 5 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 112W.
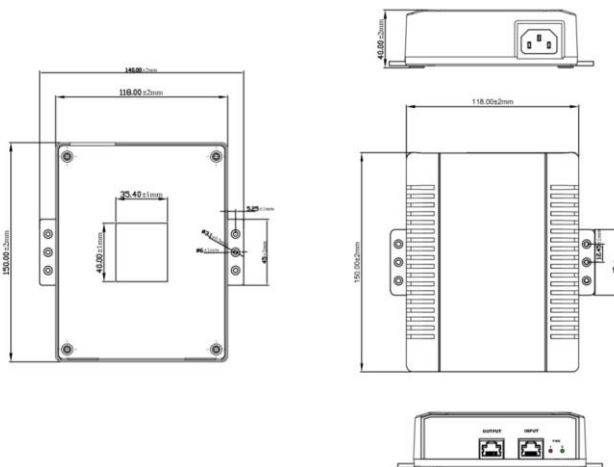
Device Pinouts

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

AC Input	100-240VAC +/-10% 47-63Hz
POE Output	56VDC 2A 112W on all 8 wires
Data Rate	5Gbps using CAT6A or better Ethernet Cable
POE Type	Passive
Max Inrush Current (120VAC)	25A
Efficiency (min)	90%
Line / Load Regulation	1% / 5%
Ripple / Noise	1% / 2%
Protections	Over-Voltage (58-60V) , Short Circuit, Over-Current (120-150%)
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)
LED Function	Two green LED: LED #1 = PoE power on pins 4,5,7,8 ; LED #2 = PoE power on pins 1,2,3,6
Certifications	FCC, CE
EMC Standards	FCC Class A EN55032 Class A
Safety Standards	UL/TUV EN62368-1
Environmental Standards	RoHs
Operating Temperature	-40 to +70°C (-40 to +158°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-40 to +85°C (-40 to +185°F)
Case Size	116 x 150 x 41mm (4.6x5.9x1.6")
Weight	454g (16oz)
Warranty	3 Years

System Ordering:

TP-POE-HP-56G   56V 112W 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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RoHS compliant

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