

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
- High Power 35W continuous, 36W peak
- 802.3af/802.3at Compatible
- 10/100/1000Mb Gigabit Compatible
- High Temperature Industrial Operation to 75C
- DIN Rail Mountable



TP-POE-HP-48GD-ET

Applications

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

Description

The TP-POE-HP-48GD-ET Power Over Ethernet Power Source offered by Tycon Power® is a quality midspan power source 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 pins. The Ethernet spec supports distances up to 100m (328 feet).

The TP-POE-HP-48GD-ET supports the IEEE 802.3af/802.3at POE specifications and are Gigabit compatible. The units 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 TP-POE-HP-48GD-ET has an output power of 35watts continuous power with peak power specified at 36W. The output voltage is 56VDC with load regulation within 5%.

The units can be DIN rail mounted using our DIN-ClipKit-Uni (not included).

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(+)
2	BI_DA-	Data RX-	BI_DA-	Data RX(-)
3	BI_DB+	Data TX+	BI_DB+	Data TX(+)
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(-)
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

TP-POE-HP-48GD-ET	
AC Input	90-264VAC 47-63Hz
Max Inrush Current (120VAC)	30A
POE Voltage	56VDC @ 0.625A
Output Power	35W Continuous, 36W Peak
Efficiency (min)	85%
Line / Load Regulation	1% / 5%
Ripple / Noise	1% / 2%
POE Compatibility	IEEE 802.3af / 802.3at
Data Compatibility	10/100/1000M , Gigabit Compatible
Protections	Over-Voltage, Short Circuit, Over-Current
Surge Protection (8KV) (IEC 61000-4-2 , Contact)	Ethernet: 8 Pin Common Mode Protection, 7.5V Clamping Voltage 5.4A (8/20 μ s) Peak Pulse Current, <0.8pF Shunt Capacitance AC Input: Operating voltage = 385VDC, Clamping voltage = 775VDC, Maximum discharge current is 1200A(8/20us)
EMC Standards	FCC Class B EN55022 Class B
Safety Standards	UL1950, CSA 22.2 & TUV EN60950
Environmental Standards	RoHs
Operating Temperature	-40 to +75°C (-40 to +167°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-40 to +80°C (-40 to +176°F)
Dimensions	125 x 75 x 38mm (4.9 x 3 x 1.5")
Weight	300g (10.6oz)

Notes:

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

System Ordering:

TP-POE-HP-48GD-ET 56V 35W High Power 802.3at/af Gigabit PoE Power Source with US Power Cord* and extended operating temperature range to 75C

For further information contact:

Tyconsystems.com

