TP-POE-HP-48G-RC

DATA SHEET

Gigabit PoE Inserter

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, 60W, Passive PoE**
- **10/100/1000Mb Compatible**
- **High Temperature Industrial Operation**
- **Compact size – Floor / Desktop / Wall Mount / DIN Rail Mount**



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Applications

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

Description

The TP-POE-HP-48G-RC is a special Power over Ethernet inserter offered by Tycon Power® which has a regulated 48VDC PoE output. Normally, higher power inserters have an output voltage of 56V. This inserter is regulated to 48VDC PoE output to be compatible with devices that are sensitive to the higher voltages.

These are quality 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 Ethernet pins 4,5(V+) and 7,8(V-). 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 48VDC 50W with load regulation within 5%. They have various protections for surge, short circuit, overload and overvoltage. Note: To activate LED indicator requires at least 0.15A 3.6W load on PoE output.

Device Pinouts

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-48G-RC
AC Input	90-264VAC 47-63Hz, IEC-320-C13 Socket
PoE Output	48VDC Passive PoE , (4,5 V+) (7,8 V-), 1.25A 60W, Shielded RJ45
Min Load to Activate LED	0.15A 3.6W on PoE Output
Max Inrush Current (120VAC)	30A
Efficiency (min)	85%
Line / Load Regulation	1% / 5%
Ripple / Noise	1% / 2%
Protections	Over-Voltage, Short Circuit, Over-Current
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 , EN55032, EN55024, EN55035, AS/NZS CISPR 32, IEC 61000-3/-4
Safety Standards	UL62368-1, CE EN62368-1, CB IEC EN62368-1, AS/NZS 62368-1
Environmental Standards	RoHs
MTBF	96,803 Hours
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 (Lx W x H)	125 x 75 x 38mm (4.9 x 3 x 1.5”)
Weight	300g (10.6oz)
Warranty	3 Years

DIN Rail Mounting Option: Using kit #DIN-ClipKit-UNI





System Ordering:

TP-POE-HP-48G-RC 48V 60W High Power Passive 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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