

90W 802.3bt PoE Injector

Features

- 90W 802.3bt Output 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 -40C to +70C
- DIN Rail Mounting clips included



TP-POE-56GD-BT High Power Injector

Applications

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

Description

The TP-POE-56GD-BT Power over Ethernet Power Injectors 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).

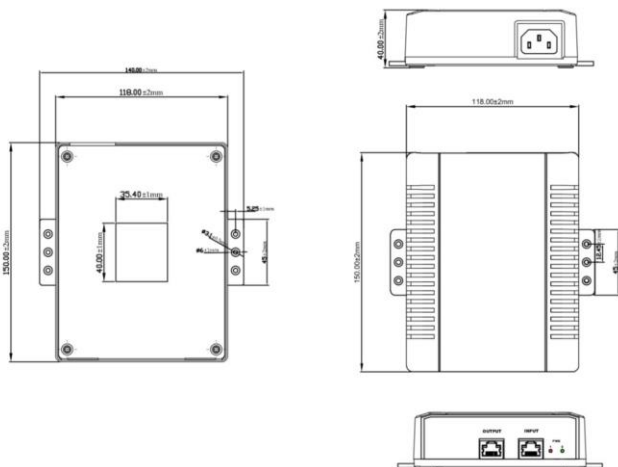
The units are auto-ranging so that they accept AC inputs from 90VAC to 264VAC (50/60 Hz) and they supply regulated 56VDC at the output. They have various protections for surge, short circuit, overload and overvoltage. They have total power output up to 90W. They are fully compatible with the IEEE802.3bt specification which means they are backward compatible with 802.3at PoE.

Device 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 1.6A 90W on all 8 wires
Data Rate	5Gbps using CAT6A or better Ethernet Cable
POE Type	IEEE 802.3bt
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 (8/20 μ s) Peak Pulse Current, <2pF Shunt Capacitance AC Input: Operating voltage = 385VDC, Clamping voltage = 775VDC, Maximum discharge current is 1200A(8/20 μ s)
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	CE/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-56GD-BT 56V 90W Very High Power 802.3bt Gigabit PoE Injector with US Power Cord*

*Add an "E" suffix for Euro power cord

For further information contact:

Tyonsystems.com

