

Hardware Description:



DIN Rail Mounting Bracket



Wall Mounting Brackets

Application:

- Solar Battery Systems
- Vehicular and Marine Applications
- Wireless Equipment
- Security Systems



DCDC 10G POE++ Injector

Powering your network infrastructure with efficiency and precision



USER MANUAL

TP-DC-12BT60-10G

www.tyconsystems.com

Tycon® DCDC 10G POE++ Injector

Description

The TP-DC-12BT60-10G is a DC-to-DC PoE++ inserter designed for reliable performance in battery-powered systems, accepting a 12-24VDC input. It supports data speeds from 10/100Mb to 10G, making it ideal for modern, high-speed networks. The durable metal enclosure comes with brackets for easy DIN rail or wall mounting.

Built-in protections safeguard against overloads, overheating, and Low Voltage Detect (LVD). With an operating temperature range of -20°C to +60°C, this inserter ensures dependable operation in challenging environments.

Features

- 12-24VDC to 54VDC Efficient DCDC Converter
- 802.3bt 54V 60W Class 6 PoE++ Output
- 4 Pair Power Delivery
- 10/100/1000Mb/2.5G/5G/10G Compatible
- DIN Rail or Wall Mount (Brackets Included)
- Over Current, Over Temperature, LVD Protections
- Metal Housing, Removeable Wire Terminal Connector
- Wide Temperature Operation: -20°C to +60°C



Specifications:

	TP-DC-12BT60-10G
Input Voltage @ Current	11-29VDC @ 7A
Input Connector	Removeable Wire Terminal (up to 12AWG)
Output Power Over Ethernet (PoE)	54VDC 60W, 802.3af/at/bt Class 6, PoE++ PoE Pinout: 1,2(V+) 3,6(V-) 4,5(V+) 7,8(V-)
Output Connectors	Shielded RJ45 for Data IN / PoE OUT
Ethernet Speed	10/100/1000Mb/2.5G/5G/ 10G
Efficiency	80% Min
LED Function	Power (Green) = Power is Stable PoE Out (Green) = PoE Out is delivering PoE Power to a device
Protections	Over Current, Overload, Over Voltage, Anti-Interference, Low Voltage Detect (LVD)
International Standards	FCC Class B EN55032 Class B, EN 61000-3-2, EN 62368-1
Operating Temperature	-20 to +60°C (-4F to +140°F)
Operating Humidity (RH)	5% - 80% non-condensing
Storage Temperature	-40 to +70°C (-40 to +158°F)
Dimensions (L x W x H)	119 x 85.5 x 28mm (4.7 x 3.4 x 1.1")
Weight	380g (13.4oz)
Warranty	2 Years