

**Hardware Description:****DIN Rail Mounting Bracket****Wall Mounting Brackets****DCDC 10G POE++ Injector**

*Powering your network infrastructure with efficiency and precision*

**USER MANUAL****TP-DC-12BT60-10G**

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