

AC/DC to DC 802.3bt PoE Injector

Features

- 22-35VAC/VDC Input, 802.3bt 90W Output
- Industrial Temperature Range: -40 to +70C
- Up to 5Gigabit Data Passthru with Surge Protection
- DIN Rail Mounting (Adapters Included)



Applications

- 802.3bt PoE from Legacy 24VAC Power Sources
- 24VDC Remote Power Systems
- IEEE802.3bt Industry Standard Device Power from Batteries



Description

The TP-DCDC-A2456GD-BT is a 5Gbps high power DCDC converter and PoE injector that accepts 22-35VAC or VDC input. It features a wide operating temperature range (-40 to +70C) and a high power 802.3bt 90W output.

The unit has dual AC/DC inputs for maximum flexibility. The green DC connector accepts wires up to 12AWG. The "FG" input is used to provide chassis or earth ground.

The device is fan-less and uses natural air flow for cooling. It comes with DIN rail adapters to provide mounting to a standard DIN Rail commonly used in industrial installations. It can also be wall mounted.

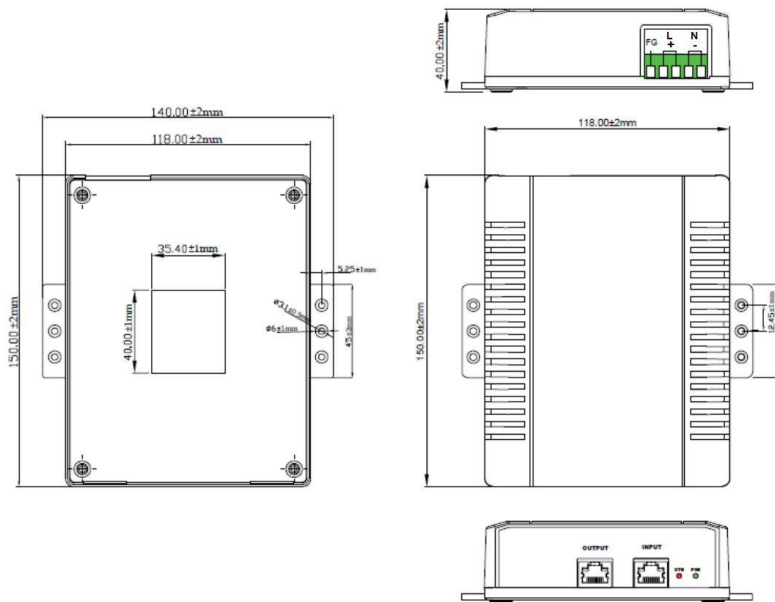
Device Pinouts

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+, VDC-	Data Pair A+, POE -
2	BI_DA-	Data Pair A-	BI_DA-, VDC-	Data Pair A-, POE-
3	BI_DB+	Data Pair B+	BI_DB+, VDC+	Data Pair B+, POE+
4	BI_DC+	Data Pair C+	BI_DC+, VDC+	Data Pair C+, POE+
5	BI_DC-	Data Pair C-	BI_DC-, VDC+	Data Pair C-, POE+
6	BI_DB-	Data Pair B-	BI_DB-, VDC+	Data Pair B-, POE+
7	BI_DD+	Data Pair D+	BI_DD+, VDC-	Data Pair D+, POE-
8	BI_DD-	Data Pair D-	BI_DD-, VDC-	Data Pair D-, POE-

Specifications

TP-DCDC-A2456GD-BT	
Input Voltage	22 to 35VAC 50/60hz or 22 to 35VDC
Input Current	4.42A @ 24VAC IN (Full Load) 4.40A @ 24VDC IN (Full Load)

Output Voltage	IEEE802.3bt 56VDC ; Load Reg = 5%, Line Reg = 1%
Output Current / Max Watts	1.6A / 90W
Ripple & Noise	1%
Efficiency	>80% 22-35V Input
Protections	Short Circuit, Reverse Voltage
Over Current Protection	802.3bt Limits ; Auto Recover
Low Voltage Detect (LVD)	Device with stop drawing all current when input voltage drops below 33.2VDC
Misc Protections	Short Circuit, Reverse Voltage
Data PassThrough	10/100/1000/5000Mbps ; Gigabit
Data Protection	Pin to Pin (1-2, 3-6, 4-5, 7-8) Clamp Voltage: 3.3V ESD, IEC61000-4-2: +/- 30KV contact and air EFT, IEC61000-4-4: 40A (5/50us) Lightning, IEC61000-4-5: 15A (8/20us)
Safety Standards	TUV EN62368-1
EMC Standards	FCC Class B ; EN55032 Class B
Connections	Removable Wire Terminal
Wire Size	12AWG Max
LED Function	Green Power LED = Valid 802.3bt Detection Red STB LED = Input Power OK
Mounting	Wall Mount or DIN Rail (Adapters Included)
Operating Temperature	-40C to +70C (-40F to 158F)
Humidity (RH)	5% - 90% Non-Condensing
Dimensions (LxWxH)	140 x 150 x 40 mm (5.5" x 5.9" x 1.6")
Weight	0.66kg (1.45lb)
Warranty	3 Years

**Ordering:**

TP-DCDC-A2456GD-BT AC/DC to DC, 22-35VAC/DC IN, 802.3bt 90W Out, Gigabit PoE Injector

For further information contact:

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