



Gigabit DC to DC Converter:

Features

- Input Voltage 12VDC or 24VDC or 48VDC
- IEEE 802.3af/at Compliant or Passive PoE Output
- Dual Inputs for Connecting 2 Power Sources
- Integrated 10/100/1000MB PoE Inserter
- High Power up to 50W
- Low Self Consumption Power
- Short Circuit, Over Current and Reverse/Over Voltage Protect
- High Temperature Operation
- Compact Size Maximize Available Space



- 12V / 24V / 48V Battery Systems, Vehicle Applications
- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems

Description

The TP-DCDC Gigabit Series of DC to DC converters offered by Tycon Power® are a low cost and high efficiency solution for those requiring IEEE802.3af and IEEE802.3at or Passive Power over Ethernet from a 12VDC or 24VDC or 48VDC voltage source like a battery system or vehicle. They have an integrated PoE injector to apply the power and data output to the CAT5 Ethernet cable. The output voltage is regulated and protected. They have two isolated inputs for connecting 2 power sources, like a primary and backup power source. A metal enclosure model is available for industrial applications.

They accept gigabit data-in to a shielded RJ45 Jack and provide gigabit data-out and PoE power on the shielded RJ45 output jack. They work by supplying power on Ethernet pins 4,5(V+) and 7,8(V-). They have various protections for surge, short circuit and overload. The units have power outputs up to 50W.

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+	Data Pair A+		
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-		
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+		
4	BI_DC+	Data Pair C+	$+Vdc + BI_DC+$	power(+)+Data Pair C+		
5	BI_DC-	Data Pair C-	+Vdc + BI_DC-	power(+)+Data Pair C-		
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-		
7	BI_DD+	Data Pair D+	-Vdc + BI_DD+	power(-)+Data Pair D+		
8	BI_DD-	Data Pair D-	-Vdc + BI_DD-	power(-)+Data Pair D-		

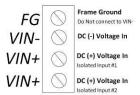


TP-DCDC-1248GD-HP 35W 802.3af/at

Specifications

	TP-DCDC- 1248G-HP	TP-DCDC- 1248GD-HP	TP-DCDC- 2448G-HP	TP-DCDC- 2448GD-HP	TP-DCDC- 4824G-HP	TP-DCDC- 4848G-HP	TP-DCDC- 4848GD-HP		
DC Input Voltage	10VDC – 15VDC	10VDC – 15VDC	18VDC – 36VDC	18VDC – 36VDC	+/- 36 to 72VDC	+/- 36 to 72VDC	+/- 36 to 72VDC		
DC Input Connector	Removeable Screw Type Compression Wire Terminal (12 AWG Max)								
DC Output Voltage	56V (Passive)	56V (802.3af/at)	56V (Passive)	56V (802.3af/at)	24V (Passive)	56V (Passive)	56V (802.3af/at)		
Data in & Data/POE Output Connector	RJ45 (Shielded)								
Output Current (max)	0.9A	0.625A	0.9A	0.625A	1.5A	0.9A	0.625A		
Output Power (max)	50W	35W	50W	35W	35W	50W	35W		
Self Consumption Power	1W								
Efficiency (min)	75%								
Line Regulation	1%								
Load Regulation	5%								
Ripple	1%								
Noise	1%								
EMC Standards	FCC Class B EN55022 Class B								
Safety Standards	CSA 22.2 &TUV EN60950								
Operating Temp	-30 to +60°C (-22 to +140°F)								
Operating Humidity	5% - 90% Non Condensing								
MTBF (Mean Time Between Failure)	106,924 Hours								
Storage Temp	-40 to +80°C (-40 to +176°F)								
Dimensions (LxWxH)	125 x 75 x 38mm (4.9 x 3 x 1.5")								
Weight	300g (10.6oz)								
Warranty	3 Years								

DC Input Connector



System Ordering:

TP-DCDC-1248G-HP
TP-DCDC-1248GD-HP
TP-DCDC-2448G-HP
TP-DCDC-2448GD-HP
TP-DCDC-4824G-HP
TP-DCDC-4848G-HP
TP-DCDC-4848G-HP

10-15VDC IN, 56VDC Passive PoE OUT, 35W DCDC Converter/Gige PoE Inserter 10-15VDC IN, 56VDC 802.3af/at OUT, 35W DCDC Converter/Gige PoE Inserter 18-36VDC IN, 56VDC Passive PoE OUT, 50W DCDC Converter/Gige PoE Inserter 18-36VDC IN, 56VDC 802.3af/at OUT, 35W DCDC Converter/Gige PoE Inserter 36-72VDC IN, 24VDC Passive PoE OUT, 30W DCDC Converter/Gige PoE Inserter 36-72VDC IN, 56VDC Passive PoE OUT, 50W DCDC Converter/Gige PoE Inserter 36-72VDC IN, 56VDC 802.3af/at OUT, 35W DCDC Converter/ Gige PoE Inserter

For further information contact:

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