

Very High Power DC to DC Converter

Features

- Input Voltage 10VDC to 60VDC
- 8 wire (4 Pair) 56VDC High PoE Output
- High Power Output to 70W
- Dual DC Inputs for Connecting 2 Power Sources
- Gigabit Data Throughput
- Low Voltage Disconnect Feature
- Short Circuit, Over Current and Reverse/Over Voltage Protection
- Industrial Temperature Range to 70C



TP-DCDC-1256Gx-VHP

Applications

- 12VDC / 24VDC Remote Power Systems
- 48VDC or -48VDC Remote Power Systems
- Ubiquiti airFiber™ Antennas
- Axis Q6032-E, Q6034-E and Q6035-E PTZ Security Cameras
- High PoE 4 Pair Powered Cameras and Radio's
- PoE Lighting Applications

Description

The Gigabit compatible TP-DCDC-1256G-VHP and TP-DCDC1256GD-VHP are special very high power DC to DC converters / PoE inserters designed especially for Ubiquiti airFiber™ antenna systems and other systems which require high power passive PoE such as Axis High Power PoE PTZ security cameras. The unique PoE inserter supplies 56VDC PoE power on all 8 Ethernet wires (4 Pair).

The wide input voltage range (10VDC to 60VDC) makes these units universal in battery powered applications. The units input and output is isolated so they work in a negative ground or positive ground system. They have two DC inputs for connecting 2 power sources, like a primary and backup power source. They have various protections for low voltage, surge, short circuit and overload. The units come complete with a DIN Rail mounting kit for mounting to a standard DIN rail.

Device Pinouts

RJ-45 Input (Data Only)			TP-DCDC-1256GD-VHP RJ-45 Output (Data & Power)		TP-DCDC-1256G-VHP RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+, Vo-	Data Pair A+, Ch1 POE -	BI_DA+, Vo+	Data Pair A+, Ch1 POE+
2	BI_DA-	Data Pair A-	BI_DA-, Vo-	Data Pair A-, Ch1 POE-	BI_DA-, Vo+	Data Pair A-, Ch1 POE+
3	BI_DB+	Data Pair B+	BI_DB+, Vo+	Data Pair B+, Ch1 POE+	BI_DB+, Vo-	Data Pair B+, Ch1 POE-
4	BI_DC+	Data Pair C+	BI_DC+, Vo+	Data Pair C+, Ch2 POE+	BI_DC+, Vo+	Data Pair C+, Ch2 POE+
5	BI_DC-	Data Pair C-	BI_DC-, Vo+	Data Pair C-, Ch2 POE+	BI_DC-, Vo+	Data Pair C-, Ch2 POE+
6	BI_DB-	Data Pair B-	BI_DB-, Vo+	Data Pair B-, Ch1 POE+	BI_DB-, Vo-	Data Pair B-, Ch1 POE-
7	BI_DD+	Data Pair D+	BI_DD+, Vo-	Data Pair D+, Ch2 POE-	BI_DD+, Vo-	Data Pair D+, Ch2 POE-
8	BI_DD-	Data Pair D-	BI_DD-, Vo-	Data Pair D-, Ch2 POE-	BI_DD-, Vo-	Data Pair D-, Ch2 POE-

Specifications

	TP-DCDC-1256G-VHP	TP-DCDC-1256GD-VHP
Input Voltage	+/- 10VDC to 60VDC	
DC Input Connector	Removeable Screw Type Compression Wire Terminal, 5 Pin (12 AWG Max)	
POE Specification	Passive (8 Wire , 4 Pair) 1245V+, 3678V-	IEEE 802.3at (4 Pair) Compatible 3645V+, 1278V-
LED Definition	Left LED: Green = Pins 1,2,3,6 are Powered Right LED: Green = Pins 4,5,7,8 are Powered RED LED = Output Not Powered	
Output Voltage (+/-2.5%)	56VDC	
Data in & Data/POE Output Connector	RJ45 (Shielded)	
Output Current (max)	1.25A Total	
Output Power (max)	70W Total	
Self-Consumption Power	2W	
Efficiency	80% Min (10VDC to 60VDC Input)	
Line Regulation, Ripple, Noise	1%	
Load Regulation	5%	
EMC Standards	FCC Class B EN55022 Class B	
Safety Standards	CSA 22.2 &TUV EN60950	
Operating Temperature	-40 to +70°C (-40 to +158°F)	
Operating Humidity (RH)	5% - 90%	
MTBF (Mean Time Between Failure)	68,278 Hours	
Storage Temperature	-40 to +85°C (-40 to +185°F)	
Dimensions (LxWxH)	90 x 118 x 40mm (3.5 x 4.6 x 1.57")	
Weight	335g (11.8oz)	
Warranty	3 Years	



DIN Rail Adapters Included



System Ordering:

TP-DCDC-1256G-VHP +/- 10-60VDC IN, 56VDC PoE OUT, 70W DC to DC Converter with 4 Pair Passive PoE Inserter for UBNT airFiber™ antennas and other High PoE Devices.

TP-DCDC-1256GD-VHP +/- 10-60VDC IN, 56VDC PoE OUT, 70W DC to DC Converter with 4 Pair IEEE 802.3at compatible PoE Inserter for Axis Q60 series PTZ Cameras and other High PoE devices.

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