



TP-DCDC-1256Gx-VHP DATA SHEET

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 self consumption power (<2W)
- Short Circuit, Over Current and Reverse/Over Voltage Protection
- Industrial Temperature Range to 70C

OUTPUT

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

Description

The Gigabit compatible TP-DCDC-1256G-VHP and TP-DCDC1256GD-VHP area 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 of 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 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)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+, Vo-	Data Pair A+ ,Ch1 POE -
2	BI_DA-	Data Pair A-	BI_DA-, Vo-	Data Pair A-, Ch1 POE-
3	BI_DB+	Data Pair B+	BI_DB+, Vo+	Data Pair B+, Ch1 POE+
4	BI_DC+	Data Pair C+	BI_DC+, Vo+	Data Pair C+, Ch2 POE+
5	BI_DC-	Data Pair C-	BI_DC-, Vo+	Data Pair C-, Ch2 POE+
6	BI_DB-	Data Pair B-	BI_DB-, Vo+	Data Pair B-, Ch1 POE+
7	BI_DD+	Data Pair D+	BI_DD+, Vo-	Data Pair D+, Ch2 POE-
8	BI_DD-	Data Pair D-	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)	IEEE 802.3at (4 Pair) Compatible	
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	UL1950, CSA 22.2 &TUV EN60950		
Operating Temperature	-40 to +70°C (-40 to +158°F)		
Operating Humidity (RH)	5% - 90%		
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)		

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Power Sources carry a 1 year warranty



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.

For further information contact:

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