

Very High Power DC to DC Converter

Features

- Input Voltage 24VDC
- 2 Channel 802.3at 56VDC POE Output
- High Power to 70W (35W per POE Channel)
- Dual DC Inputs for connecting 2 power sources
- Gigabit Data Thruput
- Low self consumption power (<2W)
- Short Circuit, Over Current and Reverse/Over Voltage Protection
- High Temperature Operation



Applications

- 24VDC Remote Power Systems
- Axis Q6035-e PTZ Surveillance Cameras
- 802.3at High Power Applications.

Description

The TP-DCDC-2456GD-VHP is a special very high power DC to DC converter / POE inserter designed and qualified for use with Axis Q6035-E outdoor PTZ security cameras. The DCDC converter supplies 35W per POE channel. One POE channel is using pins 4,5,7,8 and the other POE channel utilizes pins 1,2,3,6. By splitting the power onto separate POE channels, the device can achieve 70W total supplied power to the end device. The TP-DCDC-2456GD-VHP has separate LED indicators for indicating which 802.3at channel is being used by the client. The RIGHT LED indicates POE Channel 1 and the LEFT LED indicates POE Channel 2

The TP-DCDC-2456GD-VHP has been qualified by Axis to be used with their **Q6035-e** series of PTZ cameras. The unit can be used with any 802.3at device as it will supply 35W to any 802.3at POE channel detected. If two channels are detected on the client then 70W power will be supplied.

They have two isolated inputs for connecting 2 power sources, like a primary and backup power source. They have various protections for surge, short circuit and overload. The input and output are isolated.

Device Pinouts

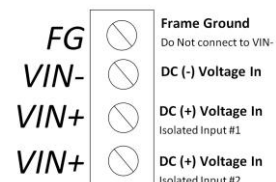
RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+, Vo-	Data Pair A+ ,Ch1 POE -
2	BI_DA-	Data Pair A-	BI_DA-, Vo-	Data Pair A-, Ch1 POE-
3	BI_DB+	Data Pair B+	BI_DB+, Vo+	Data Pair B+, Ch1 POE+
4	BI_DC+	Data Pair C+	BI_DC+, Vo+	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-2456GD-VHP
Input Voltage	+/- 18VDC to 36VDC
DC Input Connector	Removeable Screw Type Compression Wire Terminal (12 AWG Max)
POE Specification	802.3at
Output Voltage (+/-2.5%)	56VDC
Data in & Data/POE Output Connector	RJ45 (Shielded)
Output Current (max)	0.625A per POE channel = 1.25A Total
Output Power (max)	35W per POE channel = 70W Total
Self-Consumption Power	2W
Efficiency (min)	80%
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	-30 to +60°C (-22 to +140°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-40 to +80°C (-40 to +176°F)
Dimensions (LxWxH)	125 x 75 x 38mm (4.9 x 3 x 1.5")
Weight	255g (9oz)

Notes:

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


DC Input Connector


System Ordering:

TP-DCDC-2456GD-VHP +/- 18-36VDC IN 56VDC 802.3at OUT, 70W DC to DC Converter with POE Inserter for Axis Q6035-E outdoor cameras and other dual channel 802.3at high power devices.

For further information contact:

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