

## High Power Dual Output PoE Injectors

### Features

- Input Voltage 12VDC, 24VDC or 110VAC
- Dual 802.3af/at outputs
- High Power Output to 70W
- Surge Protected to 15kV
- Dual DC Inputs for Connecting 2 Power Sources
- 10/100 Data Compatibility, Shielded Connectors
- Short Circuit, Over Current and Reverse/Over Voltage Protection
- Industrial Temperature Range, DIN Rail Mountable



TP-POE-48DX2

### Applications

- 12VDC or 24VDC Remote Power Systems running on batteries
- 110/220VAC Backup Power Systems
- Power a Camera and Wireless using a single PoE Injector
- Power a Wireless AP and Backhaul using a single PoE injector

### Description

The TP-DCDC-xx48DX2-HP and TP-POE-HP-48DX2 are unique high power PoE injectors with Dual 802.3af/at compatible outputs. This means that two devices can be powered from a single PoE injector. The data path between the units is handled by the injector so no PoE switch is required.

There are models that will run on 12VDC or 24VDC as well as 110/220VAC grid power. The different models have different total outputs up to 70W.

They have two inputs for connecting 2 power sources, like a primary and backup power source. They have various protections for short circuit, overload and surges caused by ESD or lightning. The built-in surge protection protects sensitive connected devices from damage due to surges on data and PoE lines. All 8 wires are protected.

The input voltage and output voltage are isolated to avoid any grounding or negative voltage issues.

### Device Pinouts

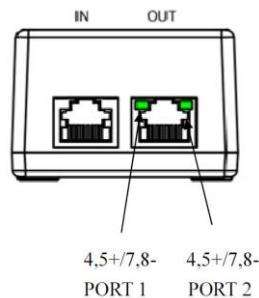
RJ-45 #1 ("IN")			RJ-45 #2 ("OUT")	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	+Vdc	DC power(+)	+Vdc	DC power(+)
5	+Vdc	DC power(+)	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	-Vdc	DC power(-)	-Vdc	DC power(-)
8	-Vdc	DC power(-)	-Vdc	DC power(-)

## Specifications

	TP-DCDC-1248DX2-HP	TP-DCDC-2448DX2-HP	TP-POE-HP-48DX2
<b>Input Voltage</b>	+/- 10VDC to 16VDC	+/- 18VDC to 36VDC	90-264VAC 47-63hz
<b>Input Connector</b>	Screw Type Compression Wire Terminal (12 AWG Max)		IEC C13 (incl. Power Cord)
<b>POE Specification</b>	Active PoE 802.3af/at (Mode B, 2 Pair)		
<b>Output Voltage (+/-2.5%)</b>	56VDC		
<b>Data in &amp; Data/POE Output Connector</b>	RJ45 (Shielded)		
<b>Output Current (max)</b>	0.38A X 2	0.63A X 2	0.45A X 2
<b>Output Power (total)</b>	42W	70W	50W
<b>Self-Consumption Power</b>	2W		
<b>Efficiency (min)</b>	80%		
<b>Line Regulation, Ripple, Noise</b>	1%		
<b>Load Regulation</b>	5%		
<b>Surge Protection</b>	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns) IEC61000-4-5 (Lightning) 20A (8/20µs)		
<b>EMC Standards</b>	FCC Class A EN55022 Class A		
<b>Safety Standards</b>	UL1950, CSA 22.2 & TUV EN60950		
<b>Operating Temperature</b>	-40 to +70°C (-40 to +158°F)		-25 to +50°C (-13 to 122°F)
<b>Operating Humidity (RH)</b>	5% - 90%		
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)		
<b>Dimensions (LxWxH)</b>	125 x 75 x 38mm (4.9 x 3 x 1.5")		
<b>Weight</b>	255g (9oz)		
<b>Warranty</b>	1 Year		

### LED Functions

Port 1 is connector labelled "IN"  
Port 2 is connector labelled "OUT"  
LED will light when port is powered



### DC Input Connector

FG		Frame Ground Do Not connect to VIN-
VIN-		DC (-) Voltage In
VIN+		DC (+) Voltage In Isolated Input #1
VIN+		DC (+) Voltage In Isolated Input #2

## System Ordering:

<b>TP-DCDC-1248DX2-HP</b>	+/- 10-15VDC IN 56VDC POE OUT, 42W DC to DC Converter with Dual 802.3at PoE outputs
<b>TP-DCDC-2448DX2-HP</b>	+/- 18-36VDC IN 56VDC POE OUT, 70W DC to DC Converter with Dual 802.3at PoE outputs
<b>TP-POE-HP-48DX2</b>	110/220VAC IN 56VDC POE OUT, 50W PoE Injector with Dual 802.3at PoE outputs

## For further information contact:

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