




Features -	VE-DC/DC-18	VE-DC/DC-24	VE-DC/DC-48M
Input Voltage 9-36VDC			
PoE Output Voltage 18, 24, & 48VDC			
IEE 802.3af			
Industrial High Temperature Operation			
Integrated 10/100Mbps PoE Inserters			
Short Circuit, Over Current, and Reverse/Over Voltage Protection			

Description -

VORP ENERGY PoE Injectors/Converters are a reliable solution for those requiring 18V to 48VDC (including IEEE802.3af) Power Over Ethernet voltage from a 12V or 24V battery system. They have an integrated POE injector to apply the output power to the CAT5 Ethernet cable. The output voltage is regulated 18V, 24V, or 48VDC from an input voltage between 9VDC and 36VDC. They have isolated inputs for connecting 2 power sources, like a primary and backup power source. A metal enclosure model is available for industrial applications.

Part Numbers -

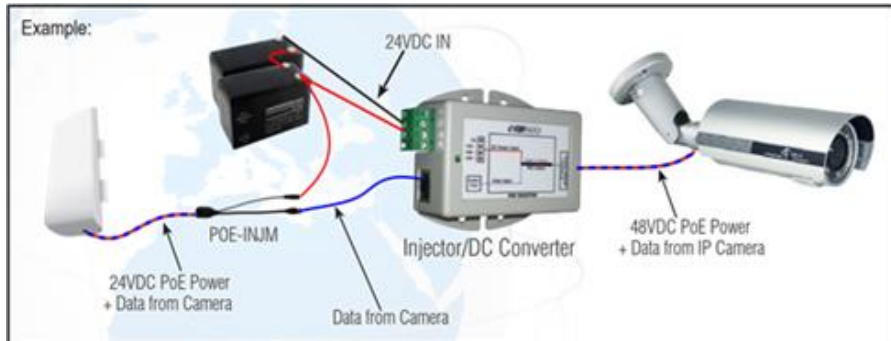
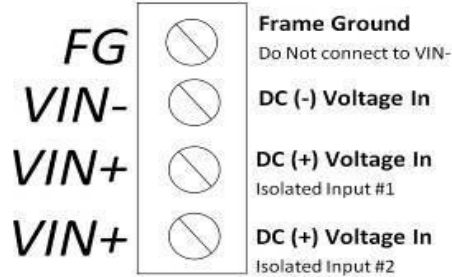
VE-DC/DC-18	9-36VDC IN 18VDC OUT, 18W DC to DC Converter/POE Inserter
VE-DC/DC-24	9-36VDC IN 24VDC OUT, 19W DC to DC Converter/POE Inserter
VE-DC/DC-48M	9-36VDC IN 48VDC OUT, 24W DC to DC Converter/POE Inserter. Metal Case

Device Pinouts -

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
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	NC	No Connection	+Vdc	DC power(+)
5	NC	No Connection	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc	DC power(-)
8	NC	No Connection	-Vdc	DC power(-)

Specifications -			
	VE-DC/DC-18	VE-DC/DC-24	VE-DC/DC-48M
DC Input Voltage	9VDC – 36VDC	9VDC – 36VDC	9VDC – 36VDC
DC Input Connector	Removable Screw Type Compression Wire Terminal (12 AWG Max)		
DC Output Voltage (+/- 2.5%)	18V (Passive)	24V (Passive)	48V (Passive)
Data in & Data/POE Output Connector	RJ45 (Shielded)		
Output Current (max)	1.0A	0.8A	0.5A
Output Power (max)	18W	19W	24W
Self-Consumption Power	1W		
Efficiency (min)	75%		
Line Regulation	1%		
Load Regulation	5%		
Ripple	1%		
Noise	1%		
EMC Standards	FCC Class B NE55022 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)	85 x 76 x 36mm (3.4 x 3 x 1.4")		
Weight	134g (4.7oz)		
Warranty	1 Year		
Surge – Lightning Protection -			
Operating Voltage	Data 5V		
Clamping Voltage	Data 16.5V (@ I PP = 5A, tp = 8/20µs, I/O pin to GND)		
Peak Pulse Current	20A (tp = 8/20µs)		
Pin Protected	4 Pin Protected (signal pairs)		
Max. Shut Capacitance	<3pF (VR = 0V, f = 1MHz, I/O pin to GND) <1.5 pF (VR = 0V, f = 1MHz, Between I/O pins)		
IEC COMPATIBILITY (EN61000-4_)	IEC6100- 4.2 (ESD) ±15kV (air), ±8kV (contact) IEC6100-4.4 (EFT 40A (5/50ns) IEC6100-4.5 (Lightning) 20A (8/20µs)		

DC Input Connector -



Remote Power Division
4774 S. Hwy 191 Suite #5
Rexburg, ID 83440