

Features

- Input PI filter
- High Density
- 2:1 input range
- High reliability
- Easy Installation
- Rugged
- Compact
- Low profile
- Six side metal shielding
- Low EMI interference
- Able to withstand high vibration and shock
- Perfectly suited for: transportation, base station, telecom, and test equipment



Model Number	Nominal Input	Input Range	Output Voltage	Output Current	Output Power	Ripple & Noise	Typical Efficiency
VDZ400-D12-S12	12	9-18 Vdc	12V	8.3 A	100W	120 (mVpp)	83%
VDZ400-D12-S24	12	9-18 Vdc	24V	8.3 A	200W	200 (mVpp)	85%
VDZ400-D12-S28	12	9-18 Vdc	28V	7.14 A	200W	280 (mVpp)	86%
VDZ400-D12-S48	12	9-18 Vdc	48V	5.2 A	250W	480 (mVpp)	84%
VDZ400-D24-S12	24	18-36 Vdc	12V	16.7 A	200W	120 (mVpp)	88%
VDZ400-D24-S24	24	18-36 Vdc	24V	10.42 A	250W	200 (mVpp)	89%
VDZ400-D24-S28	24	18-36 Vdc	28V	8.9 A	250W	280 (mVpp)	89%
VDZ400-D24-S48	24	18-36 Vdc	48V	6.25 A	300W	400 (mVpp)	85%
VDZ400-D48-S12	48	36-72 Vdc	12V	16.7 A	200W	120 (mVpp)	87%
VDZ400-D48-S24	48	36-72 Vdc	24V	12.5 A	300W	200 (mVpp)	89%
VDZ400-D48-S28	48	36-72 Vdc	28V	5.36 A	150W	280 (mVpp)	89%
VDZ400-D48-S48	48	36-72 Vdc	48V	10.42 A	500W	400 (mVpp)	91%
VDZ400-D110-S12	110	80-180 Vdc	12V	16.7 A	200W	120 (mVpp)	88%
VDZ400-D110-S24	110	80-180 Vdc	24V	12.5 A	300W	200 (mVpp)	89%
VDZ400-D110-S28	110	80-180 Vdc	28V	10.7 A	300W	280 (mVpp)	89%
VDZ400-D110-S48	110	80-180 Vdc	48V	10.42 A	500W	400 (mVpp)	90%
VDZ400-D300-S12	300	200-400 Vdc	12V	16.7 A	200W	120 (mVpp)	87%
VDZ400-D300-S24	300	200-400 Vdc	24V	12.5 A	300W	200 (mVpp)	89%
VDZ400-D300-S28	300	200-400 Vdc	28V	10.7 A	300W	280 (mVpp)	89%
VDZ400-D300-S48	300	200-400 Vdc	48V	10.42 A	500W	400 (mVpp)	90%

Input

Specification	Typical	Range	Units
Input Voltage Range	12V	9~18	Vdc
	24V	18~36	Vdc
	48V	36~72	Vdc
	110V	80~180	Vdc
	300V	200~400	Vdc
Input Reversal Protection	Protected if an external input fuse is installed.		

Output

Specification	Min.	Typ.	Max.	Units
Voltage Accuracy			±1%	
Ripple and Noise(@ 20MHz Bandwidth)			<1%	mVpp
Line Regulation			±0.2%	
Load Regulation			±0.4%	
Trim Adjustment		±10%		
Temperature Coefficient			±0.01	%/°C
Transient Response (25%-50%-25% & 50%-75%-50%)			200	µs

General Specifications

Specification	Min.	Typ.	Max.	Units
Switching Frequency	160K	180K	200K	Hz
Isolation Resistance	500M			Ω
MTBF	200K			hours
Isolation Voltage	Input-Output	1000		Vdc
	Input-Case	1000		Vdc
	Output-Case	1000		Vdc

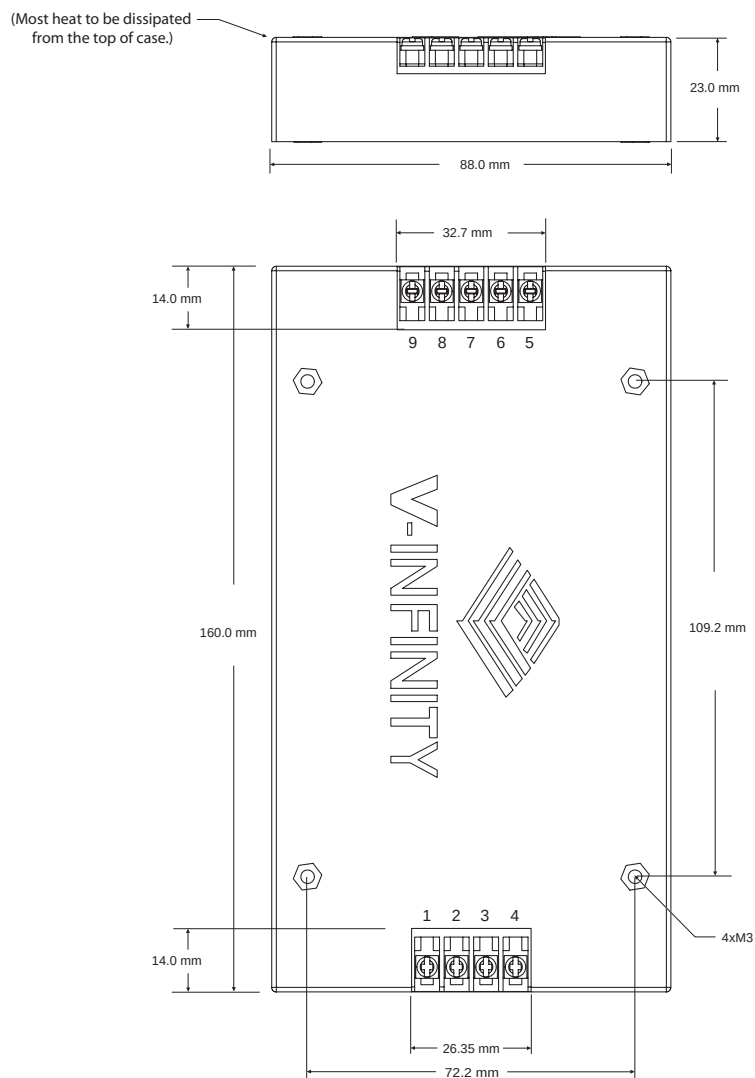
Environmental Specifications

Specification	Min.	Typ.	Max.	Units
Case Temperature	(Industrial Grade)	-25	+85	°C
	(Military Grade I)	-40	+85	°C
	(Military Grade II)	-55	+85	°C
Storage Temperature	(Industrial Grade)	-45	+105	°C
	(Military Grade)	-55	+105	°C
Case Humidity	(Non-condensing)	5%	85%	RH
Storage Humidity	(Non-condensing)	5%	95%	RH

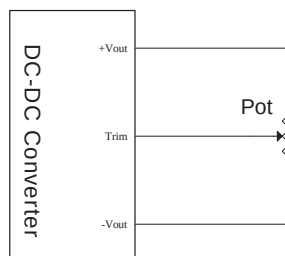
Thermal Characteristics

Cooling Method	Thermal Impedance
Natural convection	2.01°C/W
0.5 (M/S) 1.64 (LF/S)	1.67°C/W
1.0 (M/S) 3.28 (LF/S)	1.25°C/W
1.5 (M/S) 4.92 (LF/S)	0.91°C/W
2.0 (M/S) 6.56 (LF/S)	0.75°C/W

Dimensions



Trim Diagram



Suggested Values

Vout	12V	15V	24V	28V	48V
Potentiometer	20K	33K	47K	47K	100K

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