



PRODUCT OVERVIEW





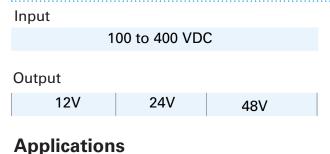
VTC1050 DC/DC VOLTAGE CONVERTER

The VTC1050 series DC-source voltage converter operates from 100 to 400 VDC to deliver up to 1000 watts of precision power to supply your 12, 24, or 48 volt electrical systems.

Two positive and two negative output connections are provided for easy connection to multiple devices. The recently updated single board design incorporates power factor correction technology for unmatched efficiency. Multiple stages of filtering reduce radiated and conducted noise to MIL461 levels for ultra-quiet operation.

The unit's front panel features five LEDs to clearly indicate operating condition and alarm states. Other safety features include over temperature derating with shutdown, current limiting, output short circuit protection, input under voltage shutdown and output over voltage protection all with automatic recovery.

Available models



mdspower.com 800.931.4919 514.369.4919

MDS Power Inc. © Copyright 2021 Specifications subject to change

MDSPOVVER[®]

VTC1050 DC/DC CONVERTER

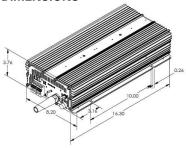
TECHNICAL SPECIFICATIONS

INPUT				
Nominal Voltage	100 - 400 VDC			
Maximum Current	15 Amps with Inrush Protection			
Input Fuse	16 Amp, 400 VDC fuse			
OUTPUT				
Nominal Voltage	12 VDC	24 VDC	48 VDC	
Actual Voltage	12.0-13.6 VDC	24.0-27.2 VDC	48.0-54.4 VDC	
Output Adjustment	±1.0 V			
Continuous Amps	80 Amps	40 Amps	20 Amps	
Peak Amps	88A	44A	22A	
Efficiency	>90% Full Load			

OPTIONS

- Ruggedized and wide temperature
- $\cdot\,$ UL/CSA special inspection
- · Waterproof sealed to IP66

DIMENSIONS



MECHANICAL

Dimensions	17.4 in. / 44.2 cm Long x 8.35 in. / 21.2 cm Wide x 4.0 in. / 10.2 cm High	
Clearance	1.0 in / 2.5 cm (all around)	
Weight	18.0 lb / 8.2 kg	
Material and Finish	Marine grade black anodized aluminum	
Fasteners	18-8 stainless steel	
Mounting	Horizontal or vertical mounting	
Input Connection	tion AC Input: Type-D #12AWG Stranded Input Leads 30cm/1ft (Red: Positive, Black Negative)	
Output Connection	DC Output: 2x sets of Phoenix VDFK Terminal Block (Red and Black)	

ENVIRONMENTAL AND SAFETY

Operating Temperature	-25°C+ to +40°C (-40°C to +55°C Optional)	
Storage Temperature	-55°C to +105°C	
Cooling	Two thermostatically-controlled cooling fans	
Humidity	0 - 95% relative humidity (non-condensing) with standard conformal coating	
Audible Noise	30 dB @ 3ft/1m	
Emissions	Complies with FCC Class B, Part 15	
Typical Service Life	> 10 years (87,600 hrs)	
Isolation	Input to Chassis, Input to Output, Output to Chassis: 1500 VDC	
Duty Cycle	Continuous: 24 hours per day, Peak: 1 minute per hour	
Warranty	Five Years	
Safety	Built to meet ABS, CE, UL458 and CSA 22.2.107.1	

Note: Specifications are subject to change without notice.

