

PRODUCT OVERVIEW



VTC805 DC-DC VOLTAGE CONVERTER

The VTC805 series DC voltage converter converts a 12VDC or 24VDC input source to nominal 24VDC output. This output voltage is easily adjustable $\pm 1.0V$ the standard output to suit your specific power needs.

Internally, the proven current-mode switching design offers increased power and dependability in a compact package, while extra input and output filtering reduce EMI to extremely low levels to prevent interference with sensitive RF loads.

Designed for safe and sure operation, this unit's reliability features include an input circuit breaker, thermal shutdown, current limiting and output short circuit shutdown. The unit's operating condition is monitored by a bright and easy-to-read LED indicators on the chassis top, which can be duplicated on the optional status indicator panel.

Available product options for the VTC805 include a carrying handle with rubber feet, digital voltmeter/ammeter display and MIL-spec connectors.

Available models

Input

12VDC

24VDC

Output

24VDC

Applications



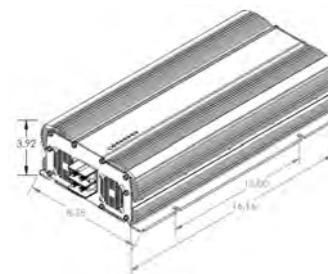
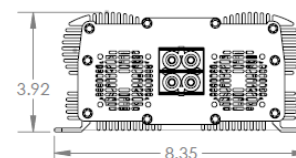
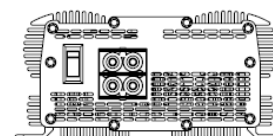
TECHNICAL SPECIFICATIONS

INPUT	12	24
Input Nominal	12 VDC	24VDC
Actual Voltage	10-18 VDC	20 -35 VDC
Input Amps	79 A Max	39.5 A Max
Noise & Input Voltage	< 50mV peak - peak	
OUTPUT	12 - 24	24 - 24
Output Nominal	24 VDC	
Actual Voltage	27.2 ± 0.05 VDC	
Continuous Amps	35 A	20 A
Peak Amps	40 A	25 A
Output Crowbar Protection	32.0 ± 1.0V	
Switching Frequency	>60 ± 2.0 KHz	
Idle Power	< 10 Watts	
Output Ripple & Noise	< 50 mV	
Transient Response	< 2V for 50% Surge	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Continuous: 100% for 24 hours Peak: 20% for 10 min max	
Efficiency	> 85% @ Maximum Output	
MECHANICAL		
Dimensions	16.3 in. (41.4 cm) Long x 8.4 in. (21.3 cm) Wide x 3.9 in. (9.9 cm) High	
Clearance	1.0 in. (2.5 cm) all around	
Weight	16.0 lbs (7.3 kg)	
Material and Finish	Marine grade black anodized aluminum	
Fasteners	18-8 Stainless steel	
Mounting	Wall or shelf mounting	
Connection	DC Input and Output: Marathon ST722B2502UH connector Power Stud block connector with 1/4" studs c/w protective snap on cover	
ENVIRONMENTAL AND SAFETY		
Operating Temperature	-25°C to +40°C. Derate Linearly 2.5% per °C from +40°C (Extended -40°C to +55°C operating temperature option available)	
Storage Temperature	-55°C to +105°C	
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating	
Cooling	Two thermostatically-controlled cooling fansled cooling fans	
Isolation	Input-Case, Input-Output and Output-Case: 1500 VDC	
Audible Noise	< 27 dB @ 3 ft/ 1m with fan running	
Safety	Complies with FCC Class B, Part 15	
Typical Service Life	>10 years (87,600 hrs)	
Warranty	Five years	

OPTIONS

- Paralleling Diodes
- Ruggedized and wide temperature
- Digital Meter
- IP67: Sealed to meet IP67 rating
- Custom input /output voltages: 12 to 55 VDC

DIMENSIONS



Note: Specifications are subject to change without notice.