

Power sensitive electronics without interference

Visual indicators for operation and errors

Simple and intuitive operation



Rugged and reliable

Over temperature, over load,
and short circuit protection

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.

3 YEAR WARRANTY



Available models

Input

12 VDC

24 VDC

Output

24 VDC

Applications



VTC805 | DC-DC VOLTAGE CONVERTER

INPUT	12	24
Input Nominal	12 VDC	24 VDC
Actual Voltage	10-18 VDC	20-35 VDC
Input Amps	79 A Max.	39.5 A Max.
Noise on Input Voltage	< 50 mV peak-peak	

OUTPUT	12-24	24-24
Output Nominal	24 VDC	24 VDC
Actual Voltage	27.2 ± 0.05 VDC	27.2 ± 0.05 VDC
Continuous Amps	35 A	20 A
Peak Amps	40 A	25 A
Output Crowbar Protection	32.0 ± 1.0V	32.0 ± 1.0V
Switching Frequency	60 ± 2.0 KHz	60 ± 2.0 KHz
Idle Power	< 10 Watts	< 10 Watts
Output Ripple & Noise	< 50 mV	< 50 mV
Transient Response	< 2V for 50% Surge	< 2V for 50% Surge
Regulation (Line & Load)	< +/- 0.5%	< +/- 0.5%
Duty Cycle	Continuous: 100% for 24 hours Peak: 20% for 10 min max	Continuous: 100% for 24 hours Peak: 20% for 10 min max
Efficiency	> 85% @ Maximum Output	

MECHANICAL

Length	16.3 in. (41.4 cm)
Width	8.4 in. (21.3 cm)
Height	3.9 in. (9.9 cm)
Clearance	1.0 in. (2.5 cm) all around
Weight	16.0 lbs (7.3 kg)
Fasteners	18-8 Stainless steel
Material and Finish	Marine grade black anodized aluminum
Mounting	Wall or shelf mount
Connections	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 Range	-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 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	Three years parts and labor

Note: Specifications are subject to change without notice.

OPTIONS

Paralleling Diodes: Allows multiple to be connected together to power a single load

COTS: Military ruggedization package with both MIL461F and MIL810G compliance testing with reports

MIL461F/ MIL810G: Stand-alone MIL461F or MIL810G compliance testing with report

Digital Meter: Built with a bright digital voltmeter/ammeter display

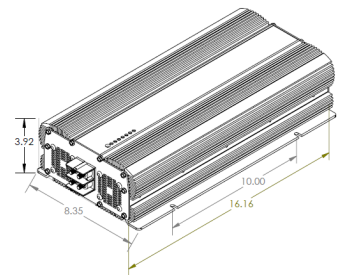
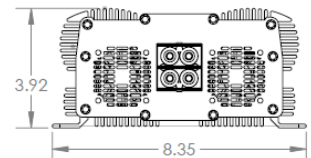
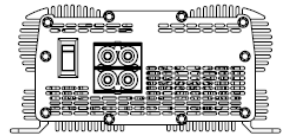
Remote Control: Built with a RS232 Communications connector, Dry Contact Relay and Remote ON/OFF (requires digital meter)

IP67: Sealed to meet IP67 rating with compliance testing with report

Portable: Built with carrying handle and rubber feet

Custom input/output voltages: 12 to 55 VDC

DIMENSIONS



ANALYTIC SYSTEMS
Power Conversion Solutions



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