



Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine & other rugged environments
- Automotive / RV
- Mobile Offices (TV and Radio Vans)
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Backup Power (UPS)

DC/DC Converters

VTC600 Series DC/DC Converters

Description

This all new single board design incorporates state of the art switchmode technology for unmatched efficiency and ultra-quiet operation.

Multiple stages of filtering reduce radiated or conducted noise to very low levels. Extra features include adjustable output voltage, audible and visual indicators for low input voltage, low output voltage, over temperature and overload.

Safety features include reverse input protection, over-temperature shutdown, current limiting, short circuit shutdown, a dry contact alarm relay output and output overvoltage crowbar. Optional features include a remote panel monitoring with On-Off control.

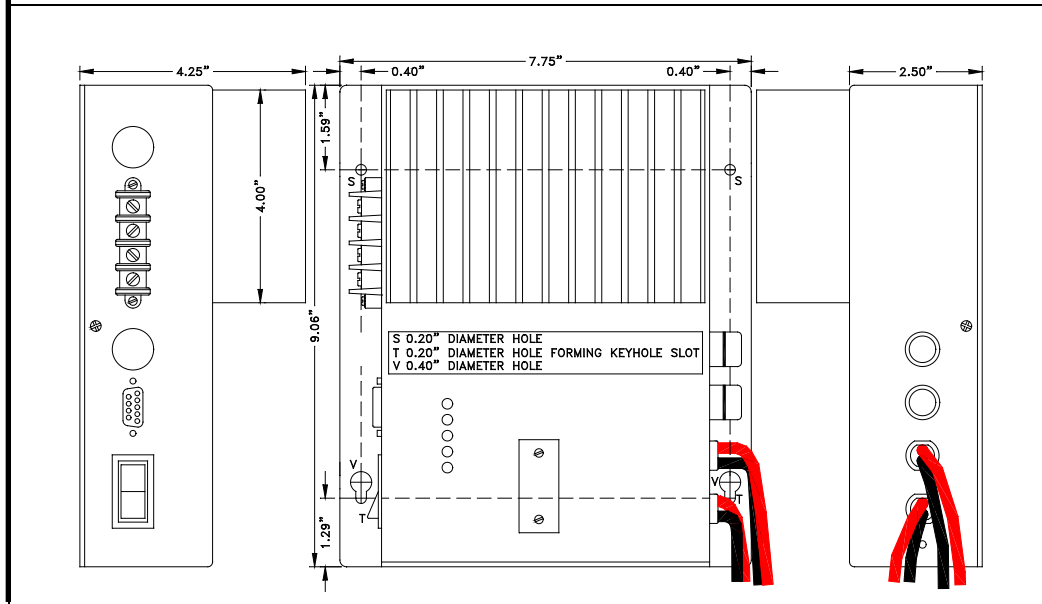
We are confident that you will get many years of reliable service from this Voltage Converter.

Features

- Adjustable output voltage
- Audible & visual indicators for constant current, low input voltage, low output voltage & over-temperature
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Current limiting protection
- Reverse input protection
- Output over-voltage crowbar
- Dry contact output fail relay
- Remote control option
- Wide-Temperature operation Available
- Parallel output diodes available
- Conformal Coating and/or Harsh Environment Ruggedization Available
- 3 year parts and labour warranty

VTC600 Series DC/DC Voltage Converter

Mechanical Diagram



Specification

Electrical (Input)

Model Number	VTC600-32-12	VTC600-32-24
Input Volts (DC)	20 – 45	30 – 45
Input Amps (max)	42	40
Input Fuse (AGC)	25A x 2	
Noise on Input	< 50 mV	

Environmental Specification

Operating Temp. Range	-25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
Humidity	0 - 95°C Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	NONE Ødb @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Any Input or Output to Case 500 VDC Input to Output – Common Negative

Electrical (Output)

Output Nominal (op)	12	24
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05
Output Amps	50 cont./ 55 peak	35 cont. / 40 peak
Output Adjustment	± 0.5	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V
Output Ripple & Noise	< 50 mV	
Transient Response	< 1V for 50% Surge	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Peak 20% for 10 min maximum Continuous 100% for 24 hours per day	
Efficiency	> 90% @ Maximum Output	

Mechanical Specification

Length	9.1 in / 23.1 cm
Width	7.8 in / 19.8 cm
Height	4.3 in / 10.9 cm
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	6.0 lb / 2.7 kg
Connections	#10 AWG Input Wires (Positive & Negative) Four contact output terminals
Warranty	3 years

Available From: