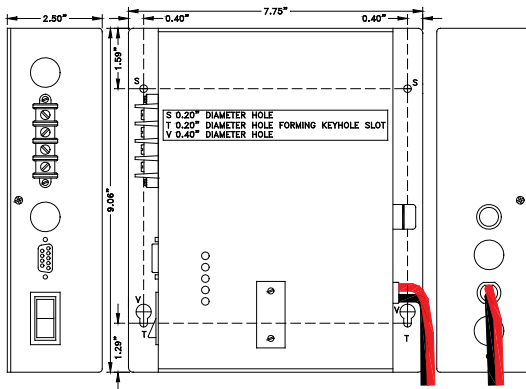


### PRODUCT OVERVIEW



### 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 over-voltage 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.

### Benefits

- Ultra-quiet
- Power sensitive electronics without interference
- Rugged and reliable to ensure years of safe and trouble free operation

### Design 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
- Five year warranty

### Applications

- Marine & other rugged environments
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- 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)

### TECHNICAL SPECIFICATIONS

ELECTRICAL (INPUT)		
Model Number	VTC300-32-12	VTC300-32-24
Input Volts (DC)	20 – 45	30 – 45
Input Amps (max)	20	22
Input Fuse (AGC)	25A	
Noise on Input	< 25 mV	
ELECTRICAL (OUTPUT)		
Output Nominal (op)	12	24
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05
Output Adjustment	± 0.5	
Output Current (A)	25 cont / 35 peak	20 cont / 25 peak
Current Limit	37 Amps	27 Amps
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V
Output Ripple & Noise	< 25 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	
ENVIRONMENT SPECIFICATION		
Operating Temp. Range	-25° to +50°C @ maximum output Derate Linearly 2.5% per °C from 50°C (Optional -40°C - +55°C extra wide temp. operation avail.)	
Humidity	0 - 95% Relative Humidity (non-condensing) with standard 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	
MECHANICAL SPECIFICATION		
Length	9.1 in / 23.1 cm	
Width	7.8 in / 19.8 cm	
Height	2.5 in / 6.4 cm	
Material	Marine Grade Aluminium	
Finish	Black Anodize	
Fastenings	All 18-8 Stainless Steel	
Weight	4.0 lb / 1.8 kg	
Connections	#12 AWG Input Wires (Positive & Negative) Four contact output terminal	
Warranty	Five years	