



DC/DC Converters

VTC125-6-12 DC/DC Converter

Benefits

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

Applications

- 6V Older Model Cars
- Wireless Applications
- Rugged Mobile Environments
- RV / Marine
- Oil Patch
- OEM Applications
- Solar / Alternative Power Systems
- Security Systems Power

Description

This model is designed to take a range of low voltage DC (even as low as 5V) and step it up to 13.6 out at up to 10 amps continuous output current.

It allows 12VDC rated equipment to be operated from a 5-8 VDC source, and prevents low voltage dropouts even during equipment starting.

This model is fully isolated. This means that the input negative (ground) connection and the output negative (ground) connection are physically separate.

It is specifically designed for supplying electronics and other critical equipment applications that require 100% uptime and a clean power source to operate.

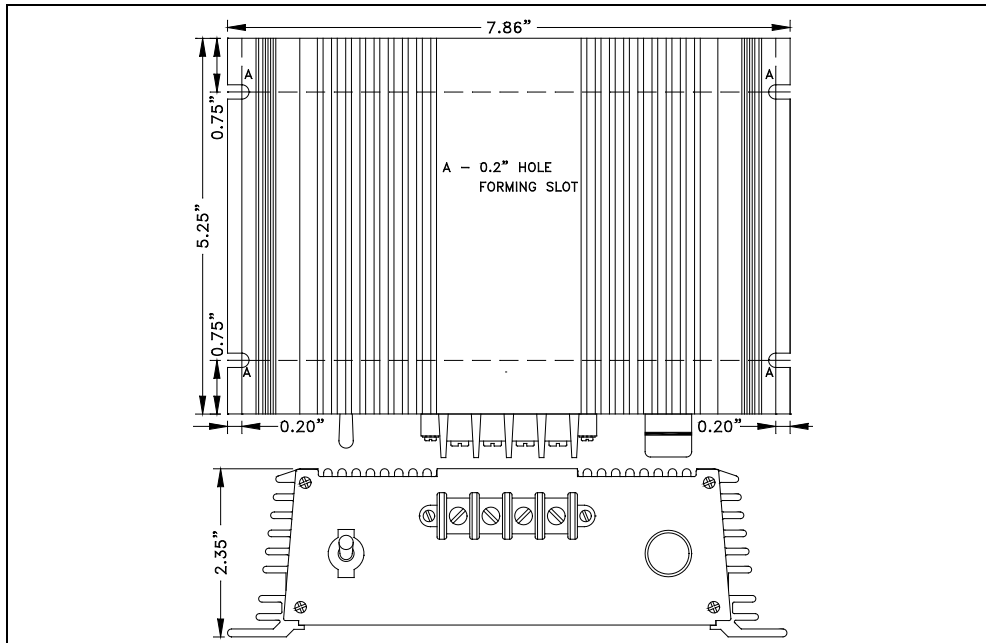
We are confident that you will get many years of reliable service from this Voltage Converter / Power Supply.

Features

- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Operates down to 5 VDC In to handle engine starting and low batteries
- Will power 12 VDC equipment from 6 VDC Source
- Ultra-quiet, low EMI operation
- Reverse input protection
- Can be built to Class 1, Division 2 Standards for Offshore Oil/Gas Environments
- 3 year parts and labour warranty

VTC125-6-12 DC/DC Power Supply/ Converter

Mechanical Diagram



Specification

Electrical (Input)

Model	VTC125-6-12
Input Volts (DC)	5-8
Input Amps (max)	35 max
Input Fuse (AGC)	40

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	500VDC Input to Output, Input or Output to Case; Fully Isolated

Electrical (Output)

Output Volts (DC) (Precision Regulated)	13.6V (12.0 Available)
Output Amps	8.0 Cont. / 10.0 Peak
Output Ripple & Noise	< 25 mV
Output Crowbar	16.0 +/- 0.5 VDC
Transient Response	< 1V for 50% Surge (Output Amps/2)
Duty Cycle	Peak 20% for 5 min maximum Continuous 100% for 24 hours per day
Efficiency	> 85% @ Maximum Output

Mechanical Specification

Length	7.9 in / 20.1 cm
Width	6.0 in / 15.2 cm
Height	2.4 in / 6.1 cm
Material	Marine Grade Aluminium
Finish	Black Anodize / Black Powder Epoxy
Fastenings	All 18-8 Stainless Steel
Weight	2.5 lb / 1.1 kg
Connections	Four contact output terminal
Warranty	3 years

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