



# ANALYTIC SYSTEMS

Power Conversion Solutions

## DC/DC CONVERTER

**MODEL  
VTC125-6-12**



### 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.

### Benefits

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

### Design 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

### Applications

- VHF Radios
- CB Radios
- Sound Equipment
- GPS Receivers
- Plotters
- 12 Volt Lighting Systems
- Automotive Electronics Displays
- Marine Electronics Displays
- Security Systems

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

[www.analysystems.com](http://www.analysystems.com)

# DC/DC CONVERTER

# MODEL VTC125-6-12

## Electrical (Input)

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

## 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

## 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% 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

## 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
Safety	Designed to meet CSA 22.2.107.1 & UL458

Note: Specifications are subject to change without notice.



**ANALYTIC SYSTEMS**  
Power Conversion Solutions

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

[www.analysissystems.com](http://www.analysissystems.com)