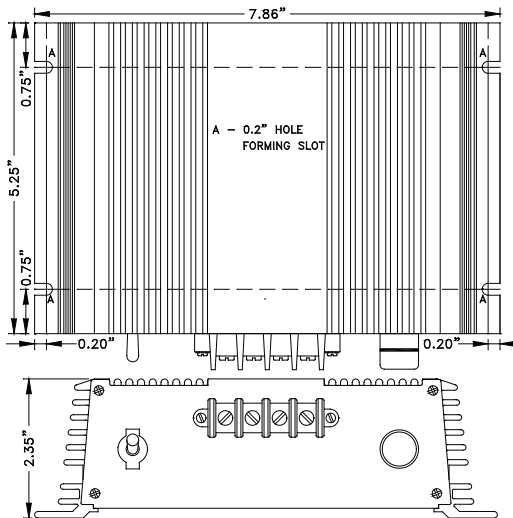


ANALYTIC SYSTEMS

Power Conversion Solutions

DC/DC CONVERTERS

MODEL VTC120 Series



Description

The VTC120 Series Voltage Converter is a variable duty cycle switching power supply with a precision linear regulator output (except for the VTC120nr-12-24). This model is common negative. This means that the input negative (ground) connection and the output negative (ground) connection are common or tied together.

Applications include running 24V PLC controls or electronic equipment from a 12 Volt battery system, or any other application requiring 24 VDC when only 12 VDC is available.

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

- Versatile design with wide variation of input and output combinations
- Precision linear regulator final stage for ultra clean output for all units (except VTC120nr-12-24)
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Ideal for running 24V PLC controls from 12 VDC
- Reverse input protection
- Short circuit protection
- 3 year parts and labour warranty

Applications

- Programmable Logic Controllers (PLC's)
- Rugged Mobile Environments
- Automotive / RV / Marine
- Electric Utilities and Substations
- Oil Patch
- Telecommunications Power
- Industrial Controls (OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Security Systems Power
- Any 12 or 24 Equipment

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.analyticsystems.com

DC/DC CONVERTER

MODEL VTC120 Series

Electrical (Input/Output)			
Model - VTC120	-12-24	h-12-12	nr-12-24
Input Volts (DC)	11-15	11-15	11-14
Input Amps (max)	15	11	15
Input Fuse (AGC)	20	15	25
Noise on Input	< 25mV		
Electrical (General)			
Output Volts (DC)	24.0	24.0	
Output Amps	5 cont. / 5.5 peak	7.5 cont. / 8.0 peak	
Output Ripple & Noise	< 5 mV		
Transient Response	< 1V for 50% Surge		
Regulation (Line & Load)	< +/- 0.5%		
Duty Cycle	Peak 20% for 5 min maximum Continuous 100% for 24 hours per day		
Efficiency	> 80% @ Maximum Output		
Environment Specification			
Operating Temp. Range	-20°C to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°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 Common Negative		
Mechanical Specification			
Length	7.9 in / 20.1 cm		
Width	6.0 in / 15.2 cm		
Width	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	Three years parts and labour		

Note: Specifications are subject to change without notice.



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