



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
RVS500



Description

The RVS500 Series low profile, DC/AC inverter utilizes micro-processor controlled high frequency PWM technology to deliver 500VA sine wave power.

It is ruggedized and conformal coated to ensure reliability in railway, industrial, utility, mining, marine and other harsh-environment applications.

This inverter is conduction / convection cooled and rated for operation over a 0°C to 50°C ambient temperature range. A -40°C to +65°C temperature range is available as an option.

The RVS500 features full electronic protection, high efficiency and filtering to meet EN55022 Class B EMI requirements.

Benefits

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

Design Features

- ◆ Input is filtered to EN 55022 Class B
- ◆ Low Profile, Compact Size
- ◆ Sinusoidal wave shape
- ◆ 500VA of output power
- ◆ Full electronic protection
- ◆ Field-proven design topology

Applications

- ◆ Marine / Automotive / RV
- ◆ Electric Utilities and Substations
- ◆ Telecom Power Plants
- ◆ Manufacturing Locations
- ◆ Steel Mills
- ◆ Military Applications (COTS)
- ◆ Industrial Controls
- ◆ OEM Applications
- ◆ Solar / Alternative Power Systems
- ◆ Fuel Cells

DC/AC Rugged Sinewave Inverters

RVS500

Input Voltage	125Vdc (105 – 145Vdc) Other inputs available, please consult factory
Input Protection	Thermal fuse / Inrush current limiting / Reverse polarity protection
Isolation	Input to chassis: 1500Vdc / Input to output 3000Vdc Output to chassis : 2250Vdc
Output Voltage	115VAC @ 4.4A or 230V @ 2.2A continuous at 50, 60 or 400Hz with grounded neutral Isolated floating output optional (Consult factory for other outputs)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum \pm 5% from no load to full load (Tighter regulation is available)
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient cooling
Immunity	Meets EN50155 and EN50121-3-2
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C (Wider temperature range available)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Dimensions	10" x 13.8" x 2.58" Enclosed case (H x W x L)
Connections	Input & Output: Compression-type terminal
Weight	9.0 lb (4.2 kg)
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 , EN60950 and EN50155
EMI	EN 55022 Class B

Note: Specifications are subject to change without notice.

Warranty: Twenty four months subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications Subject to Change Without Notice
Designed and Manufactured in Canada



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