



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
RVS1000



Description

The RVS1000 Series compact, low-profile DC/AC inverter utilizes established design techniques to deliver 1000VA sine wave voltage. Suitable for a wide range of applications, the RVS1000 features full electronic protection, high efficiency and low output noise.

Internal modules are encapsulated within a thermally conductive MIL-spec silicon rubber compound to ensure resistance against shock, vibration, moisture, humidity, salt, fog, dust, and insects. The unit is conduction cooled. Extended operating temperature ranges are available.

The RVS1000 is housed in a 19"x14"x 2.7" chassis-mount enclosure. The demonstrated MTBF of the unit exceeds 250,000 hours.

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 A (minimum)
- ◆ Low Profile, Compact Size
- ◆ Sinusoidal wave shape
- ◆ 1000VA 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

RVS1000

Input Voltage	24V, 36V, 48V, 125V, 250VDC +20% / -15% are standard Consult factory for other inputs
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 @ 8.7A or 230V @ 4.34A continuous at 50, 60 or 400Hz with grounded neutral Isolated floating output optional (Consult factory for other output requirements)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Better than 0.5%
Load Regulation	Better than $\pm 2\%$ from no load to full load
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	EN 55022 Class A as a minimum
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C (Extended temperature ranges available)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Packaging	Fully encapsulated and potted internal modules
Dimensions	19" x 14" x 2.7" enclosed case
Connections	Input/output: compression-type terminal block (Phoenix SMKDS 5/3-9,6)
Weight	15 lb (7 kg)
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 , EN60950 and EN50155
Options	Output Fail Alarm (Form C) Remote Inhibit: By closing external contacts on the inhibit terminals

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



ANALYTIC SYSTEMS
Power Conversion Solutions

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 1.800.668.3884 (US/CANADA)

www.analyticsystems.com