



# ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine  
Inverters

Model  
LVS1000



## Description

The LVS1000 Series compact DC/AC Inverter utilizes established design techniques to ensure high reliability.

Suitable for a wide range of applications, the LVS1000 features full electronic protection, high efficiency and low output noise.

The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available.

The inverter can be loaded with a fluorescent lamp load up to the full specified output power.

## Benefits

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

## Design Features

- ◆ Low profile, compact size, light weight
- ◆ Input is filtered to EN 55022 Class B (typical)
- ◆ 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 Sinewave Telecom Inverters

## LVS1000

Input Voltage	24V, 36V, 48V, 125V, 250VDC $\pm$ 20% are standard Other input voltages available
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 continuous or 230VAC / 4.34A continuous at 50, 60 or 400Hz with grounded neutral Isolated floating output optional / Other outputs available
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 $\pm$ 2% from 10% 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 B (typical)
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per ° C over operating temperature range
Dimensions	2.64" x 19" x 13.97" enclosed case (H x W x L)
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	17.6 lb (8.0 kg)
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
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.analyticssystem.com](http://www.analyticssystem.com)