

DC/AC Pure Sine Inverters

Model IVS500



Description

The IVS500 Series is a highly compact 500VA DC/AC pure sinewave inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS500 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to $50 \, \text{C}$ ambient temperature. Extended operating temperature (-40 oC to +65oC) 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

- Input is filtered to EN 55022 Class A
- Very low 60Hz input ripple current
- Compact size, light weight
- Sinusoidal wave shape
- Multiple input and output voltages available
- ▶ 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 Pure Sinewave Inverters **IVS500**

Input Voltage 24V, 36V, 48V, 125V, 250VDC +/-15% are standard Other inputs available, please consult factory Input Protection Thermal fuse, Inrush current limiting, Reverse polarity protection, Varistors, Lower voltage than spendin. will not damage unit Isolation Input to chassis 1000VDC for < 60V input, 115VAC/60Hz or 400Hz @4.34A 230V/50Hz @2.17A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies) Wave Form Sinusoidal Total Harmonic Distortion Less than 5% at full load Efficiency Min 78% at full load Line Regulation Maximum 0.5%	ecified input
Isolation Input to chassis 1000VDC for < 60V input, Input Voltage 115VAC/60Hz or 400Hz @4.34A 230V/50Hz @2.17A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies) Wave Form Sinusoidal Total Harmonic Distortion Less than 5% at full load Efficiency Min 78% at full load	ecified input
Output Voltage 115VAC/60Hz or 400Hz @4.34A 230V/50Hz @2.17A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies) Wave Form Sinusoidal Total Harmonic Distortion Less than 5% at full load Efficiency Min 78% at full load	
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Line Regulation Maximum 0.5%	
Load Regulation Maximum ± 6% from no load to full load	
Output Protection Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of overload or insufficient cooling	f continuous
Output Overvoltage Protection 140/280 V by internal supply voltage limiting	
EMI Meets EN 55022 Class A as a minimum	
Load Crest Factor Maximum 3.0 at 90% load	
Output Noise High frequency ripple is better than 500m Vrms (20MHzBW)	
Operating Temperature Range 0° C to +50° C	
Humidity 5 - 95% non-condensing	
Temperature Drift 0.05% per °C over operating temperature range	
Cooling Built-in fan	
Environmental Protection Basic ruggedizing	

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

