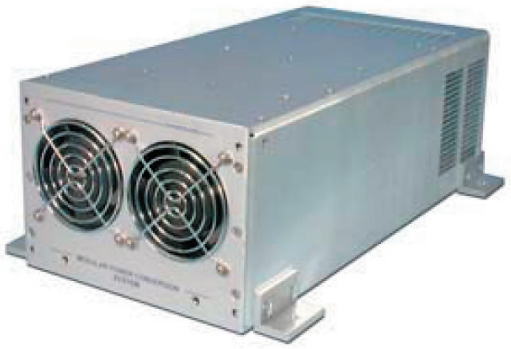
IVS1500 Series DC/AC Pure-Sinewave Inverter



A product of:

ANALYTIC SYSTEMS

Benefits

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

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 Inverters

IVS1500 Series Pure-Sinewave

Description

This rugged, modular, DC/AC inverter system uses a microprocessor controlled field proven design to generate 1500VA output power.
It is a mature product with a track record in numerous applications.
The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output.
The use of high frequency conversion ensures a compact construction and low weight.
It features full electronic protection, high efficiency and low output noise.
Built-in fans provide sufficient airflow for operation without de-rating to the specified temperature.
The use of components with established reliability results in a high MTBF. The unit is manufactured at our plant under strict quality control.

Features

- Input is filtered to EN 55022 Class A
- Very low input ripple current
- Modular design, light weight
- Sinusoidal wave shape
- Multiple input and output voltages available
- 1500VA of output power
- Full electronic protection
- Field-proven design topology

Specifications *(Specifications Subject to Change Without Notice)*

Input Voltage	24VDC, 36VDC, 48VDC, 125VDC, 250VDC +/-15% are standard Other inputs available, please consult factory
Input Protection	Inrush current limiting Varistors Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Isolation	500Vdc input to chassis for input voltages up to 48Vdc 1700Vdc input to chassis for input voltage 125Vdc 2250Vdc input to chassis for input voltage 250Vdc 2250Vdc input to output Output neutral is connected to the chassis internally Floating output as option
Output Voltage	115Vac @ 60Hz or 400Hz/13A rms continuous; or 230Vac @ 50Hz/6.5A rms continuous. Output neutral is connected to the chassis internally. Isolated floating output optional Consult factory for other output requirements
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Depends on input and output voltage combination. Typically 76% at full load
Line/Load Regulation	Maximum ± 6% from no load to full load. ± 2% load regulation option is available
Output Overload Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling
Output Overvoltage Protection	140Vac (for 115Vac output) or 280Vac (for 230Vac output) by internal supply voltage limiting
EMI	EN 55022 Class A as a minimum
Load Crest Factor	Maximum 2.5 at 90% load
Output Noise	High frequency ripple is less than 500mVrms (20MHz BW)
Operating Temperature Range	0° C to +50° C, Derating Linearly 2.5% per °C from 50°C Extended range available, consult factory
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per ° C over operating temperature range
Cooling	Built-in fans drawing air into the unit
Environmental Protection	Basic ruggedizing, full ruggedizing and conformal coating as option
MTBF	Min. 95,000 hours at 45ºC, demonstrated MTBF is significantly higher Fans excluded
Dimensions	Depends on input and output voltage combination. Typical packages: 3U3 for 230Vac output: 187 x 132 x 407 mm including connectors 3U4 for 115Vac output and 48Vdc and higher input: 244 x 132 x 407 mm including connectors 3U7 (or 3U3 x 2) for 115Vac output and input up to 36Vdc: 432 x 132 x 407 mm including connectors Mounting holes are clear 19” rack-mount version as option
Connections	Input: Compression-type terminal-block, for 24V and 36Vdc – copper studs Outputs: 115Vac – standard AC receptacle; 230Vac – IEC receptacle
Weight	For 3U3 chassis: 6kg approx. For 3U4 chassis: 8 kg approx. For 3U7 chassis: 10 kg approx.
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
Indicators	None
Alarm Output	None, Option: output fail alarm (Form C)
RoHS Compliance	Fully compliant
Warranty	2 years

Available from:

RIPEnergy®

The power conversion company

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