

IVS100 Series DC/AC Pure-Sinewave Inverter



Benefits

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

Applications

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

DC/AC Inverters

IVS100 Series Pure-Sinewave

Description

The IVS100 Series compact DC/AC Inverter utilizes the same established conversion topology as our other higher power inverters. 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. Suitable for a wide range of applications, the IVS100 features full electronic protection, high efficiency and low output noise.

Cooling for the stand-alone (FT) version is by conduction to the customer chassis, and additional air convection.

The plug-in modules are convection cooled and rated for operation from 0°C to 50°C without derating.

Extended operating temperature (-40°C) is available.

Additional ruggedizing and conformal coating are available for applications requiring immunity to high levels of shock, vibration, humidity, moisture and airborne contaminants. Remote inhibit, an output fail alarm (Form C), custom input/output voltages are also available as options.

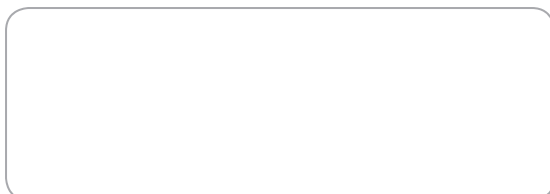
Features

- Input is filtered to EN 55022 Class A
- Very low input ripple current
- Compact size, light weight
- Plug-in or stand-alone package
- Sinusoidal wave shape
- Multiple input and output voltages available
- 100VA of output power
- Full electronic protection
- Field-proven design topology

Specifications (Specifications Subject to Change Without Notice)

Input Voltage	24VDC, 36VDC, 48VDC, 125VDC +/-15% are standard Other inputs available, please consult factory
Input Protection	Inrush current limiting Varistors Reverse polarity protection Internal safety fuse Lower voltage than specified input min. will not damage unit
Output Voltage	115VAC / 60Hz or 400Hz / 0.86A or 230VAC / 50Hz / 0.43A With isolated floating output (Consult factory for other output requirements)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Input voltage dependent, Typically 80% at full load
Line Regulation	Maximum $\pm 0.5\%$ max.
Load Regulation	Maximum $\pm 3\%$ from no load to full load
Output Noise	High frequency ripple is better than 500mVrms (20MHz BW)
Output Overload Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling
Output Overvoltage Protection	140/280V by internal supply voltage limiting
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, Derating Linearly 2.5% per °C from 50°C Extended temperature range available
Temperature Drift	0.05% per °C over operating temperature range
Cooling	Conduction/convection (no fan)
Humidity	5 - 95% non-condensing
Indicators	None
Control Input	None
Options	Output fail alarm
Dimensions	F1: 113 x 51 x 198 mm including terminal block and flanges Plug-in: 3U x 160mm x 10HP (2")
Connections	Plug-in module: H15 Stand-alone: barrier-type terminal block with 3/8" spacing
Weight	1.8 pounds (0.8 Kg)
Safety	Compliance to C22.2 No. 107.1 - 01, UL 458 and EN60950
Environmental Protection	Basic ruggedizing
RoHS Compliance	According to requirements
Warranty	2 years

Available from:



RIPEnergy®

The power conversion company

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