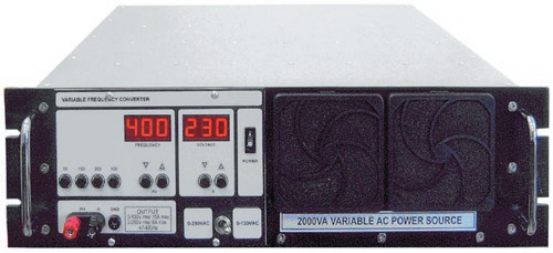
FCVS2000 Series AC/AC Frequency Converter



Benefits

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

Applications

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

AC/AC Converters

FCVS2000 Variable AC Power

Description

The FCVS2000 Series is a variable AC power source with an adjustable output of 0 … 132Vrms (maximum current 15Arms) and 0…264Vrms less than 130VAC (maximum current 15Arms) over 130VAC (maximum current 7.5Arms).

The unit uses PWM technology to generate a 2000VA sine-wave output with a total harmonic distortion less than 5% at full load.

The FCVS2000 Series AC power source is suitable for a diverse range of industrial, engineering and academic or laboratory applications.

It can also be used as an AC frequency converter.
The unit is fan cooled and features full electronic protection, high efficiency and low output noise.

Features

- Variable output voltage & frequency
- Compact size, light weight
- Sinusoidal wave shape
- Digital meters for Vrms & frequency
- Isolated, floating output
- 2000VA output power
- Full electronic protection
- High reliability
- Professional quality
- Field-proven design topology

Specifications *(Specifications Subject to Change Without Notice)*

Electrical (Input)

Input Voltage VAC	95...264
Frequency Hz	47 410
Input Protection	Thermal fuse, Inrush current limiting

Electrical (Output)

Output Voltage VAC	0…132Vrms range; max current 15Arms 0…264Vrms range; less than 130VAC (maximum current 15Arms) over 130VAC (maximum current 7.5Arms)
Output Frequency Hz	47 .... 439 (50, 100, 200, 400Hz ‚hot' push buttons)
Output Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow
Output overload Protection	Hiccup at about 120% of output max. current
Output Ripple Noise	High frequency ripple is less than 500mVrms (20 MHz BW)No. 60 950 and UL 601950
Wave Form	Sinusoidal

Indications & Electrical

Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 80% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Max. ± 5% from no load to full load
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° - 50°C
Frequency Stability	± 0.1%
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
EMI	EN 55022 Class A minimum
Isolation	2250VDC input to chassis / 2250 VDC input to output / 8mm spacing 2250VDC output to chassis

Mechanical Specifications

Length	45.8 cm
Width	19“
Height	3 U
Weight	31.5 lb / 14 kg
Connections	Input: Terminal Block Output: binding posts on front panel AC receptacle on rear panel optional
Warranty	1 year
Safety	EN60950, CSA C22.2 No. 60 950 and UL 601950

Available from:

RIPEnergy®

The power conversion company

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