

FCVS501 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

FCVS501 Variable AC Power

Description

The FCVS501 Series is a variable AC power source designed to deliver power at a selectable frequency between 47Hz to 439Hz.

The unit uses PWM technology and generates a pure sine-wave output with typical distortion of less than 5%. The output voltage is continuously adjustable from 0 to full scale.

The FCVS501 Series AC power source can be used as a compact AC/AC frequency converter, suitable for a wide range of applications.

It features full electronic protection, high efficiency and low output noise. The unit is fan cooled.

Features

- Variable output voltage & frequency
- Compact size, light weight
- Sinusoidal wave shape
- Digital meters for Vrms & frequency
- Isolated, floating output
- 500VA 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 ... 260 range
Output Amps max	4 (max. power 500VA)
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 continuous overload or insufficient airflow
Wave Form	Sinusoidal

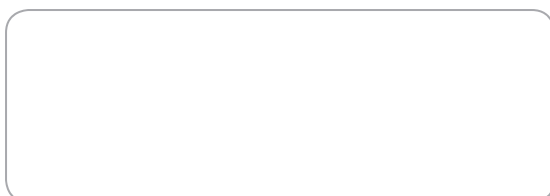
Indications & Electrical

Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Max. \pm 6% from no load to full load
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° - 50°C
Frequency Stability	\pm 0.1%
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
EMI	EN 55022 Class B
Isolation	2250VDC input to chassis / 2250 VDC input to output / 8mm spacing 2250VDC output to chassis

Mechanical Specifications

Length	35.6 cm
Width	18.6 cm
Height	14.1 cm
Weight	9 lb / 4 kg
Connections	Input: IEC inlet connector Output: Standard Laboratory Connector
Warranty	1 year
Safety	Full compliance to IEC950, CSA C22.2 No. 950 and UL 1950

Available from:



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The power conversion company

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