

FCSS2500R Series AC/AC Frequency Converter



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

AC/AC Converters

FCSS2500R Series

Description

The FCSS2500R Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the FCSS2500R 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°C ambient temperature.

Extended operating temperature (-40 to +65°C) is available.

The converter can be loaded with a fluorescent lamp load up to the full specified output power.

Features

- Input is filtered to EN 55022 Class B
- Modular design, light weight
- Sinusoidal wave shape
- 2500VA of output power
- Full electronic protection
- High reliability
- Telecom quality
- Field-proven design topology

Specifications (Specifications Subject to Change Without Notice)

Electrical (Input)

Input Voltage VAC	115 or 230 Other inputs available, please consult factory
Frequency Hz	48...410 +/-20%
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection

Electrical (Output)

Output	115VAC / 50Hz or 60Hz or 400Hz / 21.7A or 230VAC / 50Hz or 60Hz or 400Hz / 10.8A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies)
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	Better than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Max. \pm 2% from no load to full load
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° - 50°C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
EMI	Meets EN 55022 Class B
Isolation	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis

Mechanical Specifications

Depth	38.1 cm
Width	48.3 cm
Height	6U
Weight	21.8 kg
Connections	Input / Output: Terminal block
Warranty	1 year
Standards	Designed to meet C22.2 No. 107.1-01, UL458 and EN60950 Please contact factory for approval status for the requested input/ output configuration

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Talstrasse 2
CH-8702 Zollikon
Switzerland

Ph +41-(0)43-818 53 85
Fax +41-(0)43-818 53 87
www.ripenergy.ch