



AC/AC Frequency Converters

FCA3000R Series Frequency Converters

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

Description

The FCA3000R Series is a compact AC/AC frequency converter that uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the FCA3000R 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
- Very low 60Hz input ripple current
- Modular design, light weight
- Sinusoidal wave shape
- Multiple input and output voltages available
- 3000VA of output power
- Full electronic protection
- Field-proven design topology

FCA3000R Series AC/AC Frequency Converters

Specification

Input Voltage	115 or 230VAC, 48...410Hz +/-20% are standard Other inputs available, please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection
Isolation	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis
Output Voltage	115VAC / 60Hz / 26A or 115VAC / 400Hz / 26A or 230VAC 50Hz / 13A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum +/-2% from no load to full load
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	Meets EN 55022 Class B
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per ° C over operating temperature range
Dimensions	6U x 19" x 15" (H x L x W) enclosed case
Connections	Input/output: Terminal block
Weight	48lb (21.8 kg)
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
Options	Output Fail Alarm (Form C) Remote Inhibit: By connecting DC voltage (as specified) to the inhibit terminals

Warranty: Twenty four months subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications Subject to Change Without Notice
Designed and Manufactured in Canada

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