



## AC/AC Frequency Converters

### FCA2000 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 FCA2000 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 FCA2000 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
- 2000VA of output power
- Full electronic protection
- Field-proven design topology

# FCA2000 Series AC/AC Frequency Converters

## Specification

<b>Input Voltage</b>	115 or 230VAC, 48...410Hz +/-20% are standard Other inputs available, please consult factory
<b>Input Protection</b>	Thermal fuse, Inrush current limiting, Reverse polarity protection
<b>Isolation</b>	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis
<b>Output Voltage</b>	115VAC / 60Hz / 17.3A or 115VAC / 400Hz / 17.3A or 230VAC / 50Hz / 8.6A continuous with grounded neutral Isolated floating output optional (Consult factory for other voltages and frequencies)
<b>Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Efficiency</b>	Min 78% at full load
<b>Line Regulation</b>	Maximum 0.5%
<b>Load Regulation</b>	Maximum $\pm$ 6% from 10% load to full load
<b>Output Protection</b>	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
<b>EMI</b>	Meets EN 55022 Class B
<b>Load Crest Factor</b>	Maximum 3.0 at 90% load
<b>Operating Temperature Range</b>	0° C to +50° C Extended range available (Consult factory)
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift</b>	0.05% per ° C over operating temperature range
<b>Dimensions</b>	5.3" X 13.8" x 16.75" (H x L x W) enclosed case
<b>Connections</b>	Input: Compression-type terminal Output: Standard AC receptacle
<b>Weight</b>	25 pounds (11.35 Kg)
<b>Safety</b>	Compliance to IEC950, CSA C22.2 No. 950 and UL 1950 Please contact factory for approval status for the requested input/output configuration
<b>Options</b>	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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