



# ANALYTIC SYSTEMS

*Power Conversion Solutions*

#207 12448 82nd Ave.  
Surrey, BC V3W 3E9 CANADA

+1 (604) 543-7378 · phone  
1-800-668-3884 · toll free  
+1 (604) 543-7354 · fax

[www.analyticssystems.com](http://www.analyticssystems.com)



## 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 Frequency Converters

### FCA3000R Series Frequency Converters

### 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

## Specifications

<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 / 26A or 115VAC / 400Hz / 26A or 230VAC 50Hz / 13A 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 +/-2% from no 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>	6U x 19" x 15" (H x L x W) enclosed case
<b>Connections</b>	Input/output: Terminal block
<b>Weight</b>	48lb (21.8 kg)
<b>Safety</b>	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
<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

Available From:



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Quality since 1976

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