



ANALYTIC SYSTEMS

Power Conversion Solutions

AC/AC Frequency
Converters

Model
FCA1000



Description

The FCA1000 Series is a highly compact AC/AC frequency converter.

Suitable for a wide range of applications, the FCA1000 features full electronic protection, high efficiency and low output noise.

Well established design techniques are used to ensure high reliability. The 1000VA converter is cooled by a built-in fan.

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

Benefits

- ◆ Ultra-Quiet
- ◆ Power sensitive electronics without interference
- ◆ Rugged & Reliable
- ◆ Ensure years of safe and trouble free operation

Design Features

- ◆ Compact size, light weight
- ◆ Sinusoidal wave shape
- ◆ 1000VA of output power
- ◆ Full electronic protection
- ◆ Telecom quality
- ◆ Field-proven design topology

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

FCA1000

| | |
|-----------------------------|---|
| Input Voltage | 115 or 230VAC, 48 ... 410Hz +/-20% are standard Other inputs available: please consult factory |
| Input Protection | Thermal fuse, Inrush current limiting |
| Isolation | 2250VDC input to chassis / 2250 VDC input to output / 2250VDC output to chassis |
| Output Voltage | 115V / 60Hz / 8.7A or 115V / 400Hz / 8.7A or 230V / 50Hz / 4.3A 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 | Max. \pm 6% from 10% load to full load |
| Output Protection | Current limiting with short circuit protection; Thermal shutdown with automatic recovery in case of continuous over-load 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 |
| Temperature Drift | 0.05% per °C over operating temperature range |
| Dimensions | 5.3" x 7.5" x 15.5" enclosed case (H x W x L) |
| Connections | Input: Compression-type terminal Output: Standard AC receptacle |
| Weight | 13 pounds (5.9 kg) |
| Safety | Compliance to IEC950, CSA C22.2 No. 950 and UL 1950 Please contact factory for approval status for the requested input/output configuration |

Warranty: Twelve 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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