



ANALYTIC SYSTEMS

Power Conversion Solutions

AC/AC Frequency
Converters

Model
FCA500



Description

The FCA500 Series is a highly compact AC/AC frequency converter. Suitable for a wide range of applications, the FCA500 features full electronic protection, high efficiency and low output noise.

Well established design techniques are used to ensure high reliability. The 500VA 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
- ◆ 500VA 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

FCA250

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	115VAC / 50, 60Hz / 4.4A or 115VAC / 400Hz / 4.3A or 230VAC / 50Hz / 2.2A 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 \pm 1% option available
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	0o C to +50o C
Temperature Drift	0.05% per o C over operating temperature range
Dimensions	5.3" x 5" x 15.5" vented case (H x W x L)
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	9 pounds (4 kg)
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458 Please contact factory for approval status for the requested input/output configuration

Warranty: Two years 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 Designed and Manufactured in Canada



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8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 1.800.668.3884 (US/CANADA)

www.analyticssystem.com