



## AC/AC Frequency Converters

### FCA500 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 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.

#### Features

- Compact size, light weight
- Sinusoidal wave shape
- 500VA of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology

# FCA500 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
<b>Isolation</b>	2250VDC input to chassis / 2250 VDC input to output / 2250VDC output to chassis
<b>Output Voltage</b>	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)
<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>	Max. $\pm$ 6% from 10% load to full load $\pm$ 1% option available
<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
<b>Temperature Drift</b>	0.05% per ° C over operating temperature range
<b>Dimensions</b>	5.3" x 5" x 15.5" vented case (H x W x L)
<b>Connections</b>	Input: Compression-type terminal Output: Standard AC receptacle
<b>Weight</b>	9 pounds (4 kg)
<b>Safety</b>	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 to Change Without Notice  
Designed and Manufactured in Canada

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