



## AC/AC Frequency Converters

### FCA250 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 FCA250 Series is a highly compact AC/AC frequency converter. Suitable for a wide range of applications, the FCA250 features full electronic protection, high efficiency and low output noise.

Well established design techniques are used to ensure high reliability. The unit is conduction/convection cooled.

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

#### Features

- Convection cooled
- Compact size, light weight
- Sinusoidal wave shape
- 250VA of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology

# FCA250 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>	2250VDC input to chassis / 2250 VDC input to output / 2250VDC output to chassis
<b>Output Voltage</b>	115V / 60Hz / 2.2A or 115V / 400Hz / 2.2A or 230V / 50Hz / 1.1A continuous with grounded neutral Isolated floating output optional
<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
<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 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

Available from:



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