



ANALYTIC SYSTEMS

Power Conversion Solutions

AC/AC Frequency
Converters

Model
FCA1500R



Description

The FCA1500R 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 FCA1500R 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.

Benefits

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

Design 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
- ◆ 1500VA of output power
- ◆ Full electronic protection
- ◆ 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

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Input Voltage	115VAC, 60Hz - 400Hz 230VAC, 50Hz single phase Other inputs available, please consult factory
Input Protection	Thermal fuse / Inrush current limiting
Input Isolation	2250VDC input to chassis / 4300 VDC input to output / 8mm spacing 2250VDC output to chassis
Output Voltage	115Vrms / 60Hz / 3-phase 115Vrms / 400Hz / 3-phase 230Vrms / 50Hz / 3-phase are standard Consult factory for other outputs
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 3% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum \pm 6% from 10% load to full load
Output Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow
EMI	Meets EN 55022 Class B
Load Crest Factor	Maximum 3.0 at 90% load
Frequency Stability	\pm 0.1%
Operating Temperature Range	0°C to +50°C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift (for level of output V)	0.05% per °C over operating temperature range
Dimensions	4U x 19" x 15" enclosed case
Connections	Input: Terminal block or studs Output: Terminal block
Weight	32 pounds (14.5kg)

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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