

# FCST6000R Series AC/AC Single-Phase to 3-Phase Frequency Converter



## 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

## AC/AC Converters

### FCST6000R Series

#### Description

The FCST6000R AC/AC frequency converter provides 3-phase power from a single-phase line outlet.

The standard unit delivers 3-phase outputs of 208rms, 380Vrms or 415Vrms continuous at 50, 60, or 400Hz.

The floating outputs are isolated from each other and can be connected in a 'Y' configuration or left as three individual outputs. In 'Y' configuration, the centre point (neutral) can be grounded.

The FCST6000R can be shut down electronically by a control switch on the front-panel of the unit.

A remote shut-down option is also available. The unit features full electronic protection, high efficiency and low input and output noise.

#### Features

- Input is filtered to EN 55022 Class B
- Sinusoidal wave shape
- Isolated, floating output
- 6000VA of output power
- Full electronic protection
- High reliability
- Telecom quality
- Field-proven design topology

# Specifications ( Specifications Subject to Change Without Notice)

## Electrical (Input)

<b>Input Voltage VAC</b>	115VAC, 60Hz - 400Hz 230VAC, 50Hz single phase Other inputs available, please consult factory
<b>Input Protection</b>	Thermal fuse, Inrush current limiting

## Electrical (Output)

<b>Output</b>	208Vrms/ 3-phase continuous or 380Vrms/3-phase continuous or 415Vrms/3-phase continuous at 50, 60, or 400Hz The centre point (neutral) is floating - it can be grounded. Consult factory for other voltages and frequencies
<b>Output Protection</b>	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow
<b>Wave Form</b>	Sinusoidal

## Indications & Electrical

<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>	Maximum $\pm$ 6% from 10% load to full load
<b>Load Crest Factor</b>	Maximum 3.0 at 90% load
<b>Frequency Stability</b>	$\pm$ 0.1%
<b>Operating Temperature Range</b>	0° - 50°C Extended range available (Consult factory)
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift (for output voltage level)</b>	0.05% per °C over operating temperature range
<b>EMI</b>	EN 55022 Class B

## Mechanical Specifications

<b>Depth</b>	38.1 cm
<b>Width</b>	19"
<b>Height</b>	12U
<b>Weight</b>	90 lb / 40 kg
<b>Connections</b>	Input/output: terminal block
<b>Warranty</b>	1 year
<b>Safety</b>	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950 Please contact factory for approval status for the requested input/ output configuration

Available from:



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The power conversion company

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