ANALYTIC SYSTEMS
Power Conversion Solutions

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AC/AC Frequency Converters

FTT6000R Series 3Ø to 3Ø Frequency Converters

Benefits

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

Applications

- Aviation / Marine
- 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 FTT6000R AC/AC frequency converter provides 3-phase power from a 3-phase line outlet. The standard unit delivers 3-phase outputs of 208rms, 380Vrms or 415Vrms (PH-PH) 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 FTT6000R can be shut down electronically via a control switch on the front-panel of the unit. Remote shut-down and output voltage adjustment options are available.

The unit features full electronic protection, high efficiency and low input and output noise.

Features

- Sinusoidal wave shape
- Isolated, floating output
- 6000VA output power
- Full electronic protection
- Telecom quality
- Field-proven design topology

FTT6000R Series 3Ø to 3Ø AC/AC Frequency Converters

Specification

Input Voltage	208V, 380V or 415VAC, 3-phase 47 … 410Hz range *(Consult factory for other inputs)*
Input Protection	Thermal fuse, Inrush current limiting
Isolation	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis
Output Voltages	208rms/ 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
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	Maximum ± 6% from 10% load to full load
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	EN 55022 Class B (typical)
Load Crest Factor	Maximum 3.0 at 90% load
Frequency Stability	± 0.1%
Operating Temperature Range	0^{o} C to $+50^{o}$ C (Extended range available, Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per ^{o} C over operating temperature range
Dimensions	12U x 19” x 15” Rack Mount Enclosure Depth: 17” maximum
Connections	Input/output: terminal block
Weight	90 pounds (40kg)
Safety	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

Warranty: Twenty four 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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