



# ANALYTIC SYSTEMS

Power Conversion Solutions

## AC/AC Frequency Converters

Model  
**FTT1500R**  
3Ø to 3Ø Frequency Converters



### Description

The FTT1500R 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 FTT1500R 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.

### Benefits

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

### Design Features

- ♦ Sinusoidal wave shape
- ♦ Isolated, floating output
- ♦ 1500VA output power
- ♦ Full electronic protection
- ♦ Telecom quality
- ♦ Field-proven design topology

### 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

# AC/AC Frequency Converters

## FTT1500R Series 3Ø to 3Ø Frequency Converters

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 $\pm 6\%$ 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	$\pm 0.1\%$
Operating Temperature Range	0°C to +50°C (Extended range available, Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Dimensions	4U x 19" x 15" Enclosed Case
Connections	Input/output: terminal block
Weight	40 pounds (18.2kg)

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