

400Hz OUTPUT SINGLE PHASE FREQUENCY CONVERTERS 1000VA, 2000VA & 3000VA, UNIVERSAL INPUT

Highly compact AC/AC frequency converters with full electronic protection, high efficiency and low output noise.

DESCRIPTION

The FC 400Hz are highly reliable, field proven and rugged frequency converters. They are available in 1000, 2000 & 3000VA.

They will operate without de-rating up to 50°C.

Features

- 1000VA to 3000VA of output power
- Universal Input
- Compact size, light weight
- Pure sine wave
- Full electronic protection
- Ultra quiet

Applications

- Aerospace
- Aviation Ground Support
- Military (COTS)
- Industrial Controls
- OEM



MODEL SELECTION GUIDE

Model number	FC1000-400	FC2000-400	FC3000-400-RM
Input Voltage	90-264Vac, universal PFC, 47-410Hz		
Input Current	14A max	27A max	37A max
Input Connection	Terminal block		
Output Voltage	115VAC/400Hz		
Output Current	8.7 A	17.3 A	26A
Output Connection	NEMA 5-15R duplex receptacle	NEMA 5-20R duplex receptacle	Terminal block
Package Dimensions (WxHxL)	5.2" x 5.2" x 16" (132 x 132 x 407mm) 19" rack mount & L-brackets included	12" x 5.2" x 16" (305 x 132 x 407mm) L-brackets included	17" x 5.2" x 16" (432 x 132 x 410mm) 19" rack mount brackets
Weight	15 lbs (6.8 kg)	25 lbs (11.5 kg)	30 lbs (13.6 kg)

TECHNICAL SPECIFICATIONS

Specifications	
Input Protection	Inrush current limiting. Varistor. Internal safety fuse
Isolation	2250Vdc input to chassis/output Output neutral is connected to the chassis
Output Wave Form	Pure sine wave
Total Harmonic Distortion	Less than 5% at full load
Line/Load Regulation	±2% from no load to full load
Load Crest Factor	Maximum 2.5 at 90% load
Output Noise	High frequency ripple is less than 500mVrms (20MHz BW)
Output Overload Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery
Output Overvoltage Protection	By internal supply voltage limiting at 140Vac
Efficiency	85% at full load

Safety Features	
Standards	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1, CE marking
EMI	EN 55022 Class A with margins
RoHS	Fully compliant
Warranty	Two years subject to application within good engineering practice

Environmental	
Operating Temperature Range	0° C to +50° C
Cooling	By built-in high quality fans
Environmental Protection	Basic ruggedizing. Conformal coating
Shock/Vibration	IEC 61373 Cat 1 A&B
Humidity	5 - 95% non-condensing

