

PRODUCT OVERVIEW

1000VA POWER

UNIVERSAL INPUT

AVAILABLE OUTPUT:
400HZ / 60HZ / 50HZ



FEATURES & APPLICATIONS

The FC1000 Series is a highly compact AC/AC frequency converter. Suitable for a wide range of applications, the FC1000 features full electronic protection, high efficiency and low output noise.

This is a highly reliable, field proven and rugged frequency converter that will operate without de-rating up to 50°C.

Extended operating temperature (-40° C to +65° C), ruggedization and conformal coating are available.

Features

- 1000VA of output power
- Compact size & light weight
- Pure sine wave
- Full electronic protection
- Ultra quiet
- Highly reliable

Applications

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

MODEL SELECTION

Model number	FC1000-400	FC1000-60	FC1000-50
Input Voltage	90-264Vac, universal PFC, 47-410Hz		
Input Current	14A max		
Input Connection	Terminal block		
Output Voltage	115VAC/400Hz	115VAC/60Hz	230VAC/50Hz
Output Current	8.7 A	8.7 A	4.3 A
Output Connection	NEMA 5-15R duplex receptacle	Two IEC 320-C13 outlets	
Package Dimensions (WxHxL)	7.4" x 5.2" x 17" (187 x 132 x 432mm) 19" mounting ears & L-brackets included		
Weight	18 lbs (8 kg)		

TECHNICAL 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	±6% 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	140V by internal supply voltage limiting
Efficiency	85% at full load
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
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 Compliance	Compliant
Warranty	Two years subject to application within good engineering practice