



400Hz STATIC FREQUENCY CONVERTERS



ELIT Srl designs and manufactures 400Hz static frequency converters since 1987. To complete the airfield range of products are available 28Vdc and 270Vdc power supplies, constant current regulating units (CCR) for ground lighting and control systems for commercial and military airports. All the equipment is distinguished by the use of technologically advanced components, reliability, and ease of maintenance.

PRINCIPLES OF WORKING

This rugged, AC/AC frequency converter system uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. The built-in fans provide sufficient airflow for operation without de-rating within the specified temperature range. The high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF (110.000 hours @ 45°C).

SWITCHES AND OPERATOR CONTROLS

Indicators and alarm output as option
Input & output connections terminal block
Input & output switch isolator as option
Output measurement V, A as option

Model	FC400 1 SR	FC400 2 SR	FC400 3 SR
Rated power	1000VA	2000VA	3000VA
INPUT			
Nominal voltage	230V (90÷264V) 1Ph, 47÷410Hz		
Power factor	0.98		
Protection	Inrush current, varistor, internal safety fuse		
OUTPUT			
Voltage	115V 1Ph+N, 400Hz		
Current	8.7 A	18 A	25 A
Waveform	Sinusoidal		
THD	< 5% at full load		
Protection	Short circuit, thermal, overvoltage		
Isolation	2250Vdc input to chassis		
Stability	Static ±1% - Dynamic ±6%		
MISCELLANEOUS			
Dimensions	407x187x132mm	407x244x132mm	432x432x132mm
Weight	6kgs	9kgs	12kgs
Operating temperature	from 0°C to +50°C		
Relative humidity	5 – 95% without condensing		
Shock / vibration	IEC 61373 Cat 1 & AB		
Cooling	Forced air		
Efficiency	80% at full load		
Standards	CE, EN 62040-1, EN62040-2, UL 458, RoHS compliant		

ELIT Srl reserves his right to do modifications to his products without notice.