

FC Series

Frequency Converter

The FC Series is designed for industrial applications. It combines the most rugged and reliable design to convert the supply frequency to the frequency required. Being galvanic isolated and using IGBT based technology together with the microprocessor-controlled system, helps to ensure a 25 year design life.

Used typically in 50 to 60Hz conversions for such industries as naval and American equipment. Also available in 50 to 400Hz conversions for aviation equipment. Many other forms of conversion are available upon request.



Key features and benefits

- Designed for robust conditions
- Great reliability and performance
- Complies with Australia standards
- Intelligent communication remote alarms
- Galvanic isolation in AC input and output

Technical Specification

PHASE		3 Phase Input/3 Phase Output											
Model		FC 10K	FC 20K	FC 30K	FC 40K	FC 50K	FC 60K	FC 80K	FC100K	FC120K	FC160K	FC240K	FC320K
KVA		10	20	30	40	50	60	80	100	120	160	240	320
INPUT(RECTIFIER)													
Input Voltage		380V / 400V / 415V other specifications are available											
Input Range		+/- 20%											
Input Frequency		50/60Hz											
Power Walk IN		20 seconds											
Efficiency		>98%											
Voltage Regulation		+/- 1%											
INVERTER													
Output Voltage		380V / 400V / 415V other specifications are available											
Wave Form		Sinewave											
Output Power Factor		0.8											
Output Frequency		50/60/400Hz											
Phase Shift Under 100% Unbalanced Load		<0.5											
THD		<3%											
Overload	<110%	Continuous											
	110-124%	15 min											
	125-148%	3 min											
	>150%	30 sec											
Efficiency (100%) Load		92%		93%		94%		94.50%		95%			
OVERALL CHARACTERISTICS													
Overall efficiency		>90%		91%		92%		92.50%		93%			
Dimensions (HxWxD)cm				160x55x80				160x110x80				160x224x80	
Weight		280	300	400	480	550	680	820	950	1180	1450	1950	2450
Audible Noise				<55dBA @1m						<67dBA @1m			
Temperature		0-40 C											
Humidity		0-90% non condensing											
Altitude		<1500m above sea level											
EMC		EN50091-1,-2 62040-1,-2											
Short Circuit Protection		Yes											
Lightning/EMC filter		MOV/ Input & Output											
Galvanic Isolation		Input and Output true galvanic isolation											
LED,LCD,Buzzer		Yes											
Remote Control/Communication Interface		Dry contact, UPSCOM, RS485, Modbus,SNMP card											
Different specifications are available.													