

FC Rack Series Frequency Converter

Our Rack mounted Frequency Converter, designed and made in Australia, is available in sizes up to 5kVA. Being galvanic isolated and using IGBT based technology together with the microprocessor-controlled system, helps to ensure a 25 year design life. This compact, reliable and highly efficient design can also be trolley mounted for portability.

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

- Made in Australia
- 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

Model	FC Rack series		
INPUT AC			
Voltage	415V 3Phase +10%		
Phase	3 Phase + N 4 Wire		
Frequency	45.55Hz		
Current	9-10A per Phase		
OUTPUT AC			
Power	4.5kVA/3600W		
Voltage	115/200V 3Phase + N		
Sinewave distortion	1.5% RMS Max 3% with 3:1 Crest Factor		
Frequency	+0.1 Hz 400Hz		
Power Factor	0.8		
Efficiency	91%		
Regulation	1.5%		
Phase Angle displacement	0.5° @ 100% unbalanced load		
Overload	110-125% for 15 Minutes 125-150% for 5 Minutes		
OVERALL CHARACTERISTICS			
Environment	Working temperature	0-50°C	
Relative Humidity	0-90% non condensing		
EMC	Conduction & Radiation	MIL compliant	
Acoustic Noise	55 DB @ 1.5M		
Protection	Input AC	3 pole CB 10A	
	Output AC	3 pole CB 16A	
LED Status	AC Power On	Green LED	
	Inverter On	Green LED	
	Inverter On Load	Green LED	
Display LED Digital Meter - selectable	Output	Volts All Phase Frequency/Current/Power	
MTBF	50,000 Hours		
Physical	19" rack mounted (6U)	482 W x 266 H x 550 D (mm)	
Weight	45-50KG		
Connection on rear for	Input	30A Terminal	L1-L2-L3+N + Earth
	Output	30A Terminal	L1-L2-L3+N
	Remote Alarm	Inverter fault	N.O. – COM. – N.C
Different specifications are			