FC 300 Series



AC Power Testing Made Easy...



The FC 300 Series Frequency and Voltage converters are economically priced and offer top of the line performance.

The series consists of two single phase output instruments with power levels of 500VA and 1000VA. These power converters allow the user to emulate utility grids up to 310Vac and 50 or 60 Hertz for export product testing or operation of imported equipment. The frequency can also be adjusted up to 450 Hertz for applications such as the testing of military/avionics equipment or for the operation of 400 Hertz electronics that are onboard an aircraft or a military vessel.

The adjustable frequency band of 45 to 450 Hertz in conjunction with the dual voltage ranges of 0-155 volts and 0-310 volts provides full capabilities for testing and operating electronics worldwide.

Setup and operation of the FC 300 Series is exceptionally easy. The simple front panel layout allows users to continuously vary voltage and frequency or to select preset standard frequency settings. Individual meter displays provide digital readouts for frequency and voltage settings as well as measurement of frequency, voltage, current, power and power factor.

The FC 300 Series converters are a simple and cost effective solution for all of your AC power conversion needs!

Key Features & Specifications for the FC 300 Series

- Output Power: 500VA and 1000VA
- Output Frequency: 45-450Hz
- Output Voltage Dual Ranges, 0-155Vac / 0-310Vac, 1 phase
- Isolated Output, Vтнd: < 0.3% @ 110/220Vac, 50/60Hz (R load)
- Input Requirements: 115/230VAC ± 10%, 1 phase, 47-63Hz
- Intuitive Front Panel Controls: Frequency, Voltage and Current
 Limit
- Easy to read LED Display: Frequency, Voltage, Current, Power or Power Factor
- Memory Locations: Can save three desired settings of any voltage, frequency and current limit output parameters
- Power Outlets: Front Panel Universal, Domestic and International Connector

Worldwide Supplier of Power Conversion Equipment



FC		ont Panel	FC305 Rear Panel	
			Input Power Selector Fans	
			AC Input Fuse	
MODEL		FC305	FC310	
INPUT SPECIFIC	ATIONS	1 (303		
Phases		1Ø / 2 Wire + Ground		
Voltage		110 / 220V ± 10%		
Frequency		47-63Hz		
Max. AC Input Current (RMS)		10A / 5A	20A / 10A	
Input Power Factor / Efficiency		> 0.67 / > 78%	> 0.67 / > 80%	
OUTPUT SPECIF				
Power Rating	Total Power	500 VA	1000 VA	
Max Current ¹	Ranges H / L	4.6 A / 2.3 A	9.2 A / 4.6 A	
Phases		1Ø / 2 Wire + Ground		
Voltage	Ranges H / L	0 - 310 V / 0 - 155 V		
	Resolution	0.1 V		
	Accuracy	±(1.0% of setting + 0.1% F.S.)		
Frequency	Range	45 - 450 Hz		
	Resolution	0.1 Hz at 40 - 99.9 Hz, 1 Hz at 100 - 450 Hz		
	Accuracy	±0.03% of setting		
Total Harmonic Distortion (VTHD)		< 0.3% @ 110 / 220Vac & 50 / 60Hz (Resistive load)		
Crest Factor		≥ 3 to 1		
Regulation Load / Line		\pm (0.5% of output + 0.5 V) for Resistive load / \pm 0.1 V		
Protection		OCP, OVP, OPP, OTP, Short Circuit and Alarm		
MEASUREMENT	S			
Frequency	Range	0.0 - 450.0 Hz		
	Res. / Accuracy	0.1 Hz / ± 0.1 Hz		
Voltage RMS	Range	0.0 - 400.0 V		
	Res. / Accuracy	0.1 V / ±(1.0% of reading + 0.1% F.S.)		
Current RMS	Range H / L	0.005A - 0.600A / 0.50A - 6.50A	0.005A - 1.200A / 1.00A - 13.00A	
	Res. / Accuracy	0.001A / ±(1.0% of reading + 0.005A)		
Real Power	Range H / L	0.005A - 0.600A / 0.50A - 6.50A	0.005A - 1.200A / 1.00A - 13.00A	
	Res. / Accuracy ²	High Range: $0.1W / \pm (2.0\% \text{ of reading} + 5W)$ Low Range: $0.1W / \pm (2.0\% \text{ of reading} + 1.5W)$		
ENVIRONMENT/	AL	Low hange. o. tw		
Operating Temperature		32° - 104° F / 0° - 40° C		
Relative Humidity		20% - 80%, non-condensing		
DISPLAYS AND MEMORY				
Displays		Green LEDs for Frequency, Voltage, Current, Power or Power Factor (simultaneously)		
Memory (standard)		3 Programmable Memory Locations for Voltage, Frequency and Current		
MECHANICAL SPECIFICATIONS				
Model		FC305	FC310	
Dimensions	(H x D x W)	3.5″ x 11.8″ x 17″ / 89 x 300 x 430 mm	3.5" x 15.75" x 17" / 89 x 400 x 430 mm	
Weights	(Kg / lbs.)	12.5/ 27.6	18.2 / 40.1	

Note 1: Maximum current available at output voltage 110Vac on low voltage range or 220Vac on high voltage range. Note 2: At PF > 0.2 and output voltage > 5Vac



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