

4.2KVA – 52KVA

SINGLE PHASE

Model: **AFC 1**

Motor-Generator Frequency Converter
Asynchronous / Sound Attenuated Enclosure

60 HZ input – 50 HZ output

Description:

Low cost, motor-generator based frequency converter with outstanding voltage and frequency regulation. Designed specifically to furnish electrical power to computers, and other electrical or electronic equipment. All models are comprised of a brushless asynchronous motor-generator and is complete with automatic output voltage regulation. Total isolation of the load from the utility power and the capability to ride-through momentary power outages is standard on all models. A sound attenuated enclosure is provided as standard equipment.

User Controls:

The controls have been designed to offer the most efficient operation, while providing fail-safe electrical protection. Standard user control features include:

- “Motor On-Off” Switch
- “Output On-Off” Switch

Electrical Specifications:

INPUT

Voltage: Single phase, two wire plus ground, 230 VAC, or three phase, three wire plus ground. 208, 230, 460 VAC (as specified) ±10% from nominal

Frequency: 60 Hz

Power Factor: 0.8 lagging @ full-rated load

Protection: Overload & short circuit

OUTPUT

Frequency: 50 Hz ±2.5%, with nominal input

Voltage: Single Phase 110, 220 VAC (as specified)

Voltage Regulation: ±1%

Power Factor: 0.8PF

Overload Capability: 10% for 2 hours, 50% for 1 minute

Duty: Continuous duty at full-rated load

Protection: Overload & short-circuit

Environmental Characteristics:

Temperature: Operating: 40°C (104°F)

Altitude: 3,300 feet above sea level

Humidity: 0-95% Rh, (non-condensing)

Location: Indoor

Dimensions (h x w x d):

4.2, 5.8KVA: 47” x 28” x 27”

8.4-18KVA: 57.5” x 33” x 31.5”

26-52 KVA: 72” x 35” x 50”

POPULAR OPTIONS:

Output over-voltage load protection
Output voltage adjustment control
Output metering, V/A/Hz, Selector Switch

Other Options:

Enhanced output voltage regulation
Enhanced output frequency regulation
Output voltage reconnect switch
Output receptacle panel
Dual input voltage
Reduced voltage motor starter
Remote control/status
Elapsed time meter
Weather protective enclosure

MODEL RATINGS

Model	OUTPUT				INPUT			Wt(lbs)
	Capacity		Single Phase Full Load Amps		Three Phase Full Load Amps			
	KVA	KW	110V.	220V.	208V	230V	460V	
AFC10042-♦*	4.2	3.4	39	19	22	20 (33♣)	10	675
AFC10058-♦*	5.8	4.6	53	26	31	25 (41♣)	16	855
AFC10084-♦*	8.4	6.7	76	38	40	36 (75♣)	18	840 (980♣)
AFC10120-♦*	12	9.6	109	54	53	48	24	940
AFC10180-♦*	18	14	165	83	75	68	34	1,370
AFC10260-♦*	26	21	240	120	112	101	50	1,530
AFC10390-♦*	39	31	390	195	175	159	79	2,000
AFC10520-♦*	52	42	472	236	202	182	91	2,200

♦ User must specify desired input characteristics at time of order.

♣ Single phase input

* User must specify desired output characteristics at time of order.

Specifications subject to change without notice.
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