

# 4.2KVA – 52KVA

## SINGLE PHASE

Model: **AFC 0**

60 HZ input – 50 HZ output

*Motor-Generator* Frequency Converter  
Synchronous / Sound Attenuated Enclosure

### 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 separate brushless synchronous motor and 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. Reduced voltage motor starter is standard on 75KVA and above. 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:

- “Start/Stop” pushbuttons
- “Load On-Off” switch

- “Not Ready” indicator
- Output voltage adjustment control

### Electrical Specifications:

#### INPUT

**Voltage:** 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 ±0.0%, with nominal input  
**Voltage:** Single Phase 110, 220 VAC (as specified)  
**Voltage Regulation:** ±1%  
**Voltage Adjustment Range:** ±8%  
**Power Factor:** 0.8PF  
**Overload Capability:** 10% for 2 hours, 50% for 10 minutes  
**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):**  
 4.2-18KVA: 57” x 33” x 31.5”  
 26-52KVA: 72” x 35” x 50”

### POPULAR OPTIONS:

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

### Other Options:

Enhanced output voltage 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	
AFC00042-♦*	4.2	3.4	39	19	18	16	8	700
AFC00058-♦*	5.8	4.6	53	26	24	22	11	900
AFC00084-♦*	8.4	6.7	76	38	32	29	15	880
AFC00120-♦*	12	9.6	109	54	40	36	18	990
AFC00180-♦*	18	14	165	83	65	59	30	1,440
AFC00260-♦*	26	21	240	120	89	81	41	1,600
AFC00390-♦*	39	31	390	195	132	118	59	2,100
AFC00520-♦*	52	42	472	236	167	151	76	2,300

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

Specifications subject to change without notice.  
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