

# 4.2KVA – 200KVA

## THREE 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 set 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 with integral vibration isolation 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<sup>1)</sup> include:

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

### Electrical Specifications:

#### INPUT

**Voltage:** Three phase, three wire plus safety ground. 208, 230, 460 VAC (as specified)  $\pm 10\%$  from nominal  
**Frequency:** 60 Hz  
**Power Factor:** 0.8 lagging @ full-rated load  
**Protection:** Overload & short circuit

#### OUTPUT

**Frequency:** 50 Hz  $\pm 2.5\%$ , with nominal input  
**Voltage:** Three Phase 120/208, 220, 220/380, 240/415 VAC (as specified)  
**Voltage Regulation:**  $\pm 1\%$   
**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):

4.2-18KVA: 57.5" x 33" x 31.5"  
26-52 KVA: 72" x 35" x 50"  
75, 90KVA: 72" x 36" x 72"  
125-200KVA: 72" x 36" x 76"

### 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

i) “Not Ready” red indicator on selected models

### MODEL RATINGS

OUTPUT							INPUT			
Capacity			Three Phase Full Load Amps				Three Phase Full Load Amps			
Model	KVA	KW	120/208V.	220V.	220/380V	240/415V	208V	230V	460V	Wt(lbs)
AFC10042-◆*	4.2	3.4	12	11	6.3	5.8	21	19	9	530
AFC10058-◆*	5.8	4.6	16	15	8.8	8	26	24	12	550
AFC10084-◆*	8.4	6.7	23	22	13	12	37	34	17	864
AFC10120-◆*	12	9.6	33	31	18	16	51	46	23	911
AFC10180-◆*	18	14	50	47	27	25	73	66	33	1,315
AFC10260-◆*	26	21	72	68	39	36	97	88	44	1,484
AFC10390-◆*	39	31	108	102	59	54	138	125	63	1,740
AFC10520-◆*	52	42	144	136	79	72	173	157	79	1,940
AFC10750-◆*	75	60	208	197	114	104	212	192	96	2,500
AFC10900-◆*	90	72	250	236	137	125	309	280	140	3,500
AFC11250-◆*	125	100	347	328	190	174	---	---	190	3,800
AFC11500-◆*	150	120	416	394	228	208	---	---	215	4,800
AFC12000-◆*	200	160	555	525	304	278	---	---	299	5,600

♦ 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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