4.2KVA – 52KVA

SINGLE PHASE
Model: **AFCA**
Motor-Generator **Frequency Converter**
Asynchronous / Open-Guarded Construction

60 HZ input – 50 HZ output

Description:

Our Lowest cost, motor-generator based frequency converter with the same outstanding voltage and frequency regulation as the AFC1 model. Designed specifically to furnish electrical power to computers, and other electrical or electronic equipment. All models are comprised of an open-guarded 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.

The AFCA is complete with integral vibration isolation, belt guard, and Motor - Generator connection box(s), for connection to a wall mounted Motor Starter and Output Circuit Breaker by the installer.

The AFCA can be ordered separately or with optional controls:

- **MS Option:** Wall mounted Motor Starter
- **MSC Option:** Wall mounted Combination Motor Starter
- **GCB Option:** Wall mounted Generator Circuit Breaker
- **UMC Option:** Unit mounted control cabinet complete with built-in Motor Starter, Input and Output Disconnect Switches and electrical protection.

Electrical Specifications:

INPUT
Voltage: Single phase , two wire plus safety ground, 230 VAC, or three phase, three wire plus safety 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, user provided (Included with MSC or UMC option)

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, user provided (Included with GCB or UMC option)

Environmental Characteristics:
Temperature: Operating: 40°C (104°F)
Altitude: 3,300 feet above sea level
Humidity: 0-95% Rh, (non-condensing)
Location: Indoor

POPULAR OPTIONS:
Wall mounted Motor Starter
Wall mounted Combination Motor Starter
Wall mounted Generator Circuit Breaker
Unit Mounted Control Cabinet
Output Over-Voltage Load Protection i)
Output voltage adjustment control
Output metering, V/A/Hz

Other Options:
Reduced voltage motor starter
Output Over/Under Voltage Load Protection i)
Remote control/status i)
Elapsed time meter
Weather protective enclosure
i) Requires UMC Option

MODEL RATINGS

	OUTPUT				INPUT				
	Capacity		Single Phase Full Load Amps		Three Phase Full Load Amps				
Model	KVA	KW	110V.	220V.	208V	230V	460V	Dimensions HxWxD (in)	Wt(lbs)
AFCA0042-♦*	4.2	3.4	39	19	22	20 (33♣)	10	40 x 24 x 26	500
AFCA0058-♦*	5.8	4.6	53	26	31	25 (41♣)	16	40 x 24 x 26	530
AFCA0084-♦*	8.4	6.7	76	38	40	36 (75♣)	18	44 x 28 x 28	750 (980♣)
AFCA0120-♦*	12	9.6	109	54	53	48	24	46 x 28 x 30	800
AFCA0180-♦*	18	14	165	83	75	68	34	48 x 30 x 32	1,000
AFCA0260-♦*	26	21	240	120	112	101	50	56 x 34 x 32	1,150
AFCA0390-♦*	39	31	390	195	175	159	79	60 x 34 x 40	1,0650
AFCA0520-♦*	52	42	472	236	202	182	91	63 x 36 x 40	2,000

♦ User must specify desired input characteristics at time of order.
∗ User must specify desired output characteristics at time of order.
♣ Single phase input

Specifications subject to change without notice.
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" Power For the Planet" ®

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