

375VA – 9KVA

SINGLE PHASE

Model: **AFH 1**

60 HZ input – 45HZ-1KHZ output

Electronic Programmable AC Power Source

Description:

The AFH programmable AC Power Source provides cost effective instrument grade AC Power. The isolated AC output can be controlled manually using the front panel operator keypad, or remotely via GPIB/IEEE.448, RS232C or APG (Analog Programming)ⁱ⁾ for fully automated computer controlled applications.

All models incorporate PWM technology for efficient power delivery, and DSP or 16 Bit methodology to provide precise high speed measurement of output.

The AFH is provided with front panel display(s), built-in self diagnostics and protection including Overvoltage, Undervoltage, Overcurrent, Over Power, Short Circuit, Overtemperature and Fan Failure.

The 375VA and 800VA models are Rack Mount Ready and can be ordered with enclosure for table top applications. The 1,500VA – 3,000VA models are table top ready, and can be ordered with optional Rack Mount Kit. The 6,000VA and 9,000VA models are provided in a rack enclosures with caster wheels.

Electrical Specifications:

INPUT

Voltage: 90 – 132VAC or 180-250VAC (as specified below), Single phase , two wire plus ground

Frequency: 47-63 Hz

Power Factor: 0.8 – 0.98 lagging model dependent

OUTPUT

Frequency: 45 – 500 Hz, 45 – 1000Hz

Voltage: 0-150VAC, 0-300VAC; 0-500VAC, Single Phase (as specified below)

MEASUREMENT (summary)ⁱⁱ⁾

Voltage (RMS):

Accuracy: 0.1%FS + 0.25% or better

Resolution: 0.1V

Current (RMS):

Accuracy: 0.2%FS + 0.5% or better

Resolution: 0.01A

Power (RMS):

Accuracy: 1% (CF<6) or better

Resolution: 0.1W for P<1000W – 1.0W for P>1000W or better

Frequency:

Accuracy: .02% or better

Resolution: 0.1Hz or better

Environmental Characteristics:

Temperature, Operating: 0-40°C (32-104°F)

Altitude: 3,300 feet above sea level

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

Location: Indoor

Options:

Table top enclosure 375VA

Table top enclosure 800VA

Rack mount kit 1.5KVA – 3KVA

Remote interface 375VA, 800VA

Remote interface 1.5KVA – 3KVA

GPIB cable (200CM)

GPIB cable (60CM)

i) Optional feature. Standard on 6,000VA model.

ii) Request 017-0035 data sheet for detailed Measurement specifications.

MODEL	OUTPUT CAPACITY	OUTPUT FREQUENCY	OUTPUT FREQUENCY REGULATION	OUTPUT VOLTAGE	OUTPUT VOLTAGE REGULATION Temp Coefficient 0.02% per °C	OUTPUT CURRENT (MAX) (NOTE 1)	OUTPUT DISTORTION (THD)	INPUT VOLTAGE	INPUT CURRENT (APPROX.) (NOTE 2)	DIMENSIONS HxWxD (in.)	WEIGHT (lbs)
AFH10003	375VA	45 – 500Hz	Accuracy: 0.1% Resolution: 0.1Hz	0-150V 0-300V Auto	Accuracy: 0.2% FS. (45-200Hz) 0.4 FS. (>200Hz) Resolution: 0.1V Line/Load: 0.1% / 0.1%	L:2.5A H:1.25A	Typ 0.3% (45-200Hz) 0.8% (>200Hz)	90-132V / 180-250V	B: 7.5 E: 3.75	5.25x18.97x19.69	50
AFH10008	800VA					L:5.33A H:2.67A		90-132V or 180-250V 1PH	B:12 E: 6	5.25x18.97x19.69	58
AFH10015	1.5KVA	45 – 1000Hz	Accuracy: 0.15% Resolution: 0.01Hz (45 – 99.9Hz), 0.1Hz (100-999.9Hz)	Parallel Conn 0-150V 0-300V Series Conn 0-300V 0-500V	Accuracy: 0.2% FS. Resolution: 0.1V Line / Load 0.1% / 0.2% series Conn 0.8% Parallel Conn	L:15A H:7.5A	0.5% (45-500Hz) 1% (>500-1KHz)	190-250V, 1PH	E:12	8.74x16.73x24.4	65
AFH10020	2KVA					L:20A H:10A			E:15	8.74x16.73x24.4	65
AFH10030	3KVA					L:30A H:15A			E:23	8.74x16.73x24.4	68
AFH10060	6KVA					L:60A H:30A XH: 15	1%	190-250V, 3PH	E:35	33.26x21.49x27.55	155
AFH1S030	9KVA	Refer to Model AFH1S Data Sheet 017-0038 for details									

NOTES: 1: L= Low Range 0-150V H= High Range 0-300V XH= Extra High Range 0-500V

2: B=115V; E= 230V

Specifications subject to change without notice.

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