



**FEATURES**

- Low output THD
- Unique overload protection
- Remote programming

**CLEAN AC POWER WITH MICROPROCESSOR CONTROL AND VACUUM FLUORESCENT DISPLAY**

In the P2002 you'll find the quality features you expect from Behlman; fully adjustable voltage and frequency, low-output THD, high efficiency, plus excellent line and load regulation. There's also a unique overload protection system that folds back voltage to maintain rated current without output waveform distortion. The unit can be controlled with the front panel pushbuttons or remotely using the standard RS232 interface.

Available options include IEEE-488 interface, extended frequency range, 45 Hz to 1000 Hz and rack mount kit. Small size, quiet operation and high efficiency make the P2002 ideal for industrial product testing, precision avionics test, power conversion and Automatic Test Equipment testing.

**INPUT**

Voltage	120 VAC, +/- 10%
Frequency	47-63 Hz (Option for 400 Hz input)

**OUTPUT**

Power	2000 VA
Voltage	0-135 V or 0-270 V
Frequency	45-500 Hz (Option E: 45-1000 Hz)
Current	15 Amps, 0-135 V Range, 7.5 Amps, 0-270 V Range
Current limit	Settable from 0 to maximum amps
Crest Factor	3:1
Power Factor	100% of rated output into any power factor load
Distortion	1.0% THD typical, measured at full load, 115 Volts, 60 Hz
Line Regulation	+/- 0.1% for +/- 10% line change
Load Regulation	+/- 0.7%, no load to full load
Efficiency	80% typical

**PROTECTIVE CIRCUITS**

Input	Circuit Breaker
Constant Current	Overload automatically causes voltage fold-back to provide maximum current

Short Circuit	without distorting output waveform Short circuit overload electronically latches output open to protect load... power restored by recycling input power
Thermal	Internal temperature sensor prevents heat damage
Over voltage	Voltage in excess of 20% of maximum electronically latches output to protect load... power restored by recycling input power
Current Limit	Adjustable from 10% to full scale via front panel. Output will latch open if limit is exceeded.

**CONTROLS / INDICATORS**

Power On/Off	Circuit Breaker
Display	Vacuum fluorescent display with 24 characters x 2 lines. Displays volts, amps, frequency and current limit. Fault indication for over voltage (O/V), over current (O/I), over temperature (O/T), constant current (C/C) and overload latch (O/L), Watts (W), power factor (PF)

Shift push-button	Set resolution; 0.1, 1.0, 10.0, 100.0
Mode push-button	Selects the parameter required
Up push-button	Increment up
Down push-button	Increment down
Reset	Reset system to default setting
Output On/Off	Push button switch
Range	Push button switch (High/Low)
Local/Remote	Recessed slide switch
Indicators	Output on, high range, busy Remote interface RS232 interface
Settings and measurements	See Table 1 (reverse)

## MECHANICAL & ENVIRONMENTAL

Dimensions	High-strength bench top chassis with removable rubber feet, 5.25" H x 17"W x 21"D (13.3 cm x 43.2 cm x 53.3 cm)
Weight	65 lbs (29.5 kgs)
Operating Temperature	32° to 131° F (0° to 55° C)
Cooling	Internal fans. Air flow front to rear.
Input Connections	Twist-lock receptacle supplied with plug and six foot line cord with unterminated end
Output Connections	Three safety sockets on front panel and enclosed terminal block on rear
Remote Interface	DB-9 connector

**TABLE 1: P2002 SETTINGS AND MEASUREMENTS**

	Setting Resolution	Setting Accuracy	Measurement Accuracy
Voltage	0.1 V	+/- 0.3% of full scale	+/- 0.1 V +/- 0.3% of full scale +/- 0.1 V
Frequency	0.1 Hz	+/- 0.01 Hz	+/- 0.1 Hz
Current	NA	NA	+/- 1% of full scale +/- 0.1 A
Current Limit	0.1 A	+/- 0.2 A	+/- 0.2 A
Watts	NA	NA	+/- 2.5% of full scale (150 W to FS)
Power Factor	NA	NA	+/- 0.035 (150 W to FS)

## FAULT INDICATIONS FOR THE FOLLOWING

O/V	Over Voltage
O/I	Over Current
O/T	Over Temperature
C/C	Constant Current
O/L	Overload latch

## OPTIONS

400	400 Hz input (350-440 Hz)
E	Extended frequency range, 45-1000 Hz
I	IEEE-488 interface
RM	Rack Mount kit
ET	Ethernet interface

Contact factory for additional options.

