Behlman Power Products

AC Power Source/ Frequency Converter

FEATURES

- Low output THD
- Unique overload protection

Remote programming with RS232 standard; RS232/ USB/ Ethernet available

SERMAN FORM

P2002

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 fold's 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 extended frequency range, rack mount kit, RS-232/USB/ Ethernet interface.

Small size, quiet operation and high efficiency make the P2002 ideal for industrial product testing, precision avionic 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

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 (see options)

Settings and measurements: See Table 1 (reverse)

PROTECTIVE CIRCUITS

Over voltage:

Input: Circuit Breaker

Constant Current: Overload automatically causes voltage

fold-back to provide maximum current without distorting output waveform

Short Circuit: Short circuit overload electronically

latches output open to protect load...

power restored by recycling input power Internal temperature sensor prevents

Thermal: Internal temperature sensor | heat damage

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.

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: Enclosed terminal block on rear

Remote Interface: DB-9

Table 1: P2002 Settings and Measurements

	Setting Resolution	Accuracy
Voltage	0.1 V	+/- 0.5% of full scale +/- 1 LSB (45-500Hz) +/- 0.7% of full scale +/- 1 LSB (500-1000Hz)
Frequency	0.1 Hz	+/- 0.1 Hz
Current	NA	+/- 1% of full scale +/- 0.1 A
Current Limit	0.1 A	+/- 0.2 A
Watts	NA	+/- 2.5% of full scale (150 W to FS)
Power Factor	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

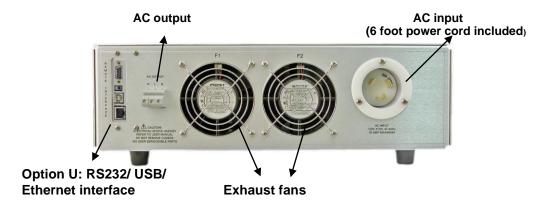
OPTIONS: Contact factory for additional options.

400: 400 Hz input (350-440 Hz)

E: Extended frequency range, 45-1000 Hz

RM: Rack Mount kit

U: USB, Ethernet and RS232 using SCPI protocol





www.behlman.com



Headquarters: 80 Cabot Court, Hauppauge, NY 11788 631 435-0410 800 874-6727 Fax: 631 951-4341



