Behlman Power Products

AC Power Source/ Frequency Converter

P1352

FEATURES

- **Low output THD**
- **Unique overload protection**
- **Remote programming**

CLEAN AC POWER WITH MICROPROCESSOR CONTROL AND VACUUM FLUORESCENT DISPLAY

In the P1352 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 P1352 ideal for industrial product testing, precision avionic test, power conversion and Automatic Test Equipment testing.

INPUT

Voltage:	120 VAC, +/- 10%
Frequency:	47-440 Hz

OUTPUT

Power:	1350 VA
Voltage:	0-135 V or 0-270 V
Frequency:	45-500 Hz (Option E: 45-1000 Hz)
Current:	10 Amps, 0-135 V Range, 5 Amps, 0-270 V Range
Current limit:	Settable from 0 to maximum amps
Load Crest Factor:	3:1
Load 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:	Fuse
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
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

CONTROLS / INDICATORS

Power On/Off:	Rocker type switch
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

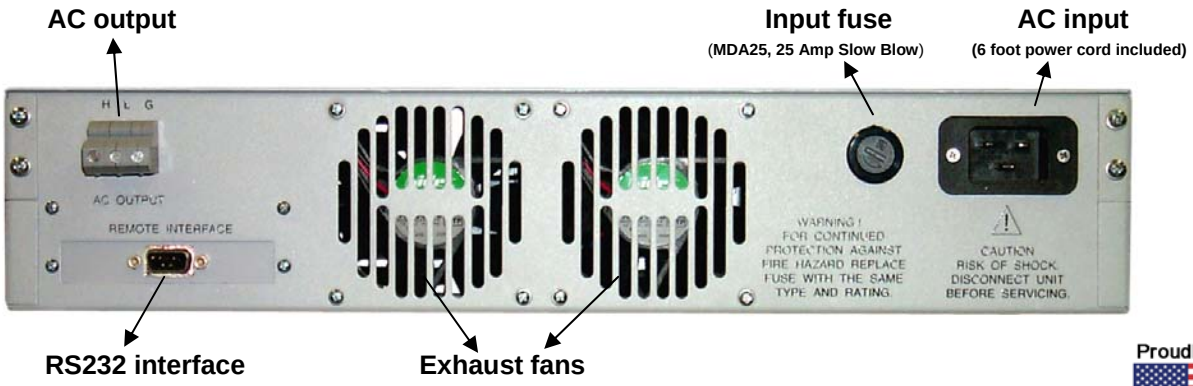
Dimensions:	High-strength bench top chassis with removable rubber feet, 3.5"H x 17"W x 17.5"D (8.9 cm x 43.2 cm x 44.5 cm)
Weight:	39 lbs (17.6kgs),
Operating Temperature:	32° to 131° F (0° to 55° C)
Input Connections:	IEC320 C-20 receptacle with six-foot line cord with NEMA 5-15 plug
Output Connections:	Enclosed terminal block
Remote control:	DB-9 connector

Table 1: P1352 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***.
E: Extended frequency range, 45-1000 Hz
I: IEEE-488 interface
RM: Rack Mount kit
USB: Adapter for USB to serial port



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