Behlman Power Products

AC Power Source/ Frequency Converter

Model PF1352

STANDARD FEATURES

- **PFC Input**
- **Low output THD**
- **Variable voltage and frequency**
- **Unique overload protection**
- **Bench top or rack mount**
- **Remote programming- RS232, USB, Ethernet**
- **CE Mark**

CLEAN AC POWER WITH MICROPROCESSOR CONTROL AND VACUUM FLUORESCENT DISPLAY

In the PF1352 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 PF1352 ideal for industrial product testing, precision avionic test, power conversion and Automatic Test Equipment testing.

INPUT

Voltage:	95-270 VAC, @ 16Amps Max. (Full power from 115VAC to 270 VAC)
Frequency:	47-63 Hz. 47-440Hz (Non CE Mark)

OUTPUT

Power:	1200 VA (1350 VA @ 120VAC in @ 25° C)
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
AC Regulation:	0.7% @ F.S., No Load to Full load, resistive
AC Regulation response time:	250 – 300 msec. typical
Crest Factor:	3:1
Power Factor:	100% of rated output into any power factor load
Distortion:	1.5% THD typical, measured at full load, 120 Volts, 60 Hz
Line Regulation:	+/- 0.1% for +/- 10% line change
Load Regulation:	+/- 0.7%, no load to full load
Efficiency:	75% typical

PROTECTIVE CIRCUITS

Input:	Fuse
Constant Current:	Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform

PROTECTIVE CIRCUITS cont.

Short Circuit:	Short circuit overload electronically latches output open to protect load... power restored by cycling 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 cycling 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, USB, Ethernet 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 22"D (8.9 cm x 43.2 cm x 55.9 cm)
Weight 49 lbs (22.2 kgs),
Operating Temperature: 32° to 122° F (0° to 50° C)
Storage Temperature: 14° to 140° F (-10° to +60° C)

Input Connections: IEC320 C-20 receptacle with two meter cable unterminated
Output Connections: Enclosed terminal block on rear
Remote control: DB-9, USB & Ethernet connectors

CE MARK

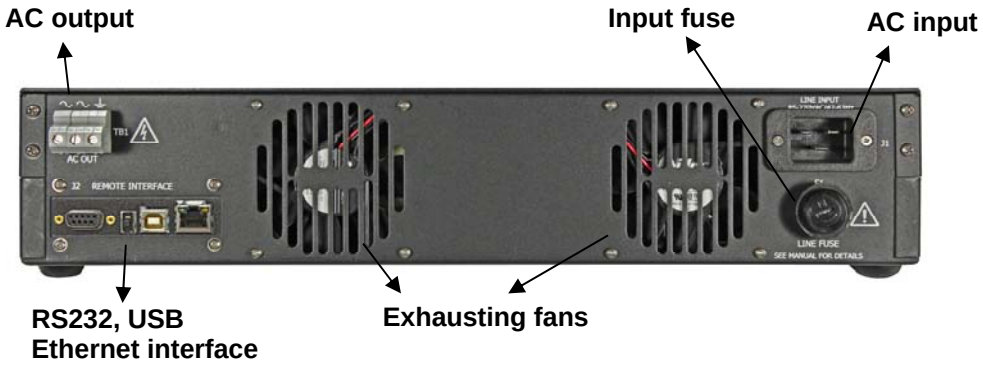
Safety: IEC-61010-1, class1 general safety requirements and IEC-60950-1 where applicable
EMC: IAW IEC61326-1

Table 1: PF1352 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



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