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 with RS232 standard RS232/ USB/ Ethernet available



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 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, (45 Hz to 1000 Hz), rack mount kit and remote programming, RS-232/USB/ Ethernet.

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

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 (see options)

Settings and measurements: See Table 1 (reverse)

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MECHANICAL & ENVIRONMENTAL

Weight

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) 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

Remote control:

Output Connections: Enclosed terminal block on rear DB-9, USB & Ethernet connectors

IEC-61010-1, class1 general Safety:

safety requirements and

IEC-60950-1 where applicable

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

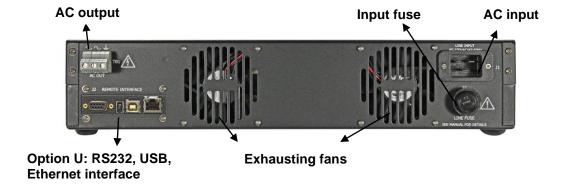
options.

Extended frequency range, 45-1000 Hz E:

RM: Rack Mount kit

USB, Ethernet and RS-232 interface U:

Using SCPI protocol









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