

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 or IEEE-488 available
- 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 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 either IEEE-488 or 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 (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 (see options)

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

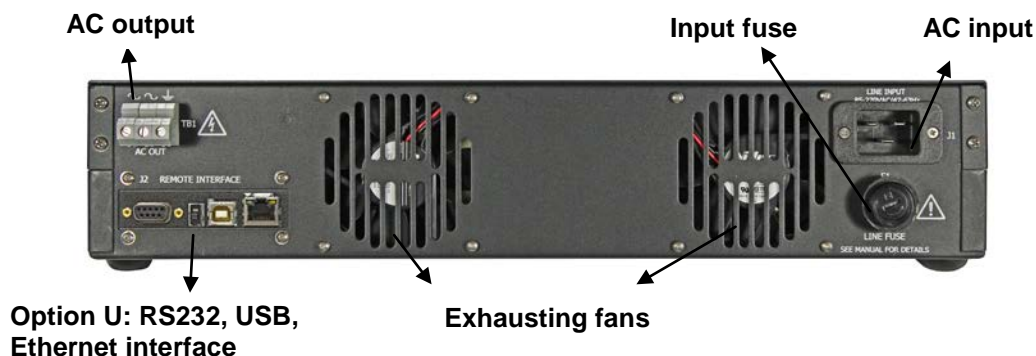
	Setting Resolution	Accuracy
Voltage	0.1 V	+/- 0.5% of full scale +/- 1 LSB (45-500Hz) +/- 0.7% of full scale +/- 1 LSB (500-1000Hz)
Frequency	0.1 Hz	+/- 0.1 Hz
Current	NA	+/- 1% of full scale +/- 0.1 A
Current Limit	0.1 A	+/- 0.2 A
Watts	NA	+/- 2.5% of full scale (150 W to FS)
Power Factor	NA	+/- 0.035 (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
U: USB, Ethernet and RS-232 interface
 Using SCPI protocol



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