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 or IEEE-488 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.

**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 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

**Safety:** IEC-61010-1, class1 general safety requirements and IEC-60950-1 where applicable

---

**Table 1: PF1352 Settings and Measurements**

<table>
<thead>
<tr>
<th>Setting Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage 0.1 V</td>
<td>+/- 0.5% of full scale +/- 1 LSB (45-500Hz) +/- 0.7% of full scale +/- 1 LSB (500-1000Hz)</td>
</tr>
<tr>
<td>Frequency 0.1 Hz</td>
<td>+/- 0.1 Hz</td>
</tr>
<tr>
<td>Current NA</td>
<td>+/- 1% of full scale +/- 0.1 A</td>
</tr>
<tr>
<td>Current Limit 0.1 A</td>
<td>+/- 0.2 A</td>
</tr>
<tr>
<td>Watts NA</td>
<td>+/- 2.5% of full scale (150 W to FS)</td>
</tr>
<tr>
<td>Power Factor NA</td>
<td>+/- 0.035 (150 W to FS)</td>
</tr>
</tbody>
</table>

**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

---

**AC output**

**Input fuse**

**AC input**

**Exhausting fans**

**Option U: RS232, USB, Ethernet interface**

---

**www.behrman.com**

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

sales@behrman.com

**ISO**

Proudly made in the U.S.A.