

## 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  
**Crest Factor:** 3:1  
**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**

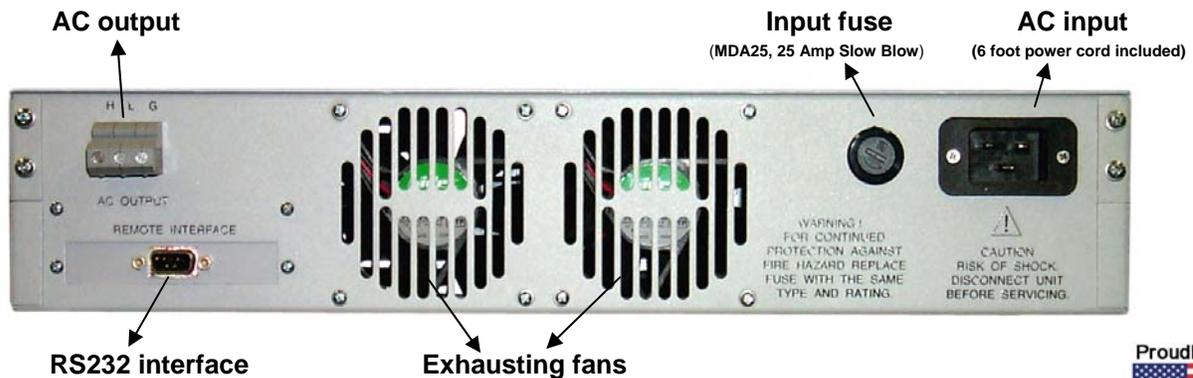
|                      | Setting Resolution | Setting Accuracy                 | Measurement Accuracy                 |
|----------------------|--------------------|----------------------------------|--------------------------------------|
| <b>Voltage</b>       | 0.1 V              | +/- 0.3% of full scale +/- 0.1 V | +/- 0.3% of full scale +/- 0.1 V     |
| <b>Frequency</b>     | 0.1 Hz             | +/- 0.01 Hz                      | +/- 0.1 Hz                           |
| <b>Current</b>       | NA                 | NA                               | +/- 1% of full scale +/- 0.1 A       |
| <b>Current Limit</b> | 0.1 A              | +/- 0.2 A                        | +/- 0.2 A                            |
| <b>Watts</b>         | NA                 | NA                               | +/- 2.5% of full scale (150 W to FS) |
| <b>Power Factor</b>  | NA                 | 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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