Behlman Power Products

AC Power Source/ Frequency Converter

Model PF1351

STANDARD FEATURES

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

MANUAL CONTROL OR PROGRAMMABLE AC POWER FOR YOUR BENCH OR TEST RACK

The PF1351 delivers 1350 VA of clean, regulated AC power in a 3.5" high bench top unit that easily converts to rack mount, for far less than competitive models.

In the PF1351 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 from the front panel or remotely using the optional 0-10 VDC, RS232 or IEEE-488 interface. Other options include extended frequency range, 45 Hz to 1000 Hz and rack mount kit.

Small size, low cost, quiet operation and high efficiency make the PF1351 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 isolated
Frequency:	45-500 Hz (Option E: 45-1000 Hz)
Current:	10 Amps, 0-135 V Range, 5 Amps, 0-270 V Range
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
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

CONTROLS / INDICATORS

Power On/Off:	Rocker type switch
Display:	Two DMM's, one for volts and the other Freq/Amps
Output On/Off:	Push button switch
Range:	Push button switch (High/Low)
Indicators:	Output on, high range, frequency or amps, constant current and fault

METERING

Voltage:	+/- 0.5% of reading + 1% of range 1 V resolution
Current:	+/- 1% of reading +1% of range, 0.1 A resolution
Frequency:	+/- 1% of reading + (+/-1Hz) 1Hz resolution

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: Three safety sockets on front panel and enclosed terminal bock on rear

CE MARK

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

AVAILABLE OPTIONS: *Contact factory for additional options*.

A: Analog remote control, 0-10 VDC for volts and frequency and contact closure for range and output
E: Extended frequency range, 45-1000 Hz
I: IEEE-488 interface
IR: RS 232 interface
L: Locking pots
RM: Rack Mount kit