**FEATURES**

- Stackable for higher power or 3-phase
- Unique overload protection
- Remote programming

**1350 VA OF AC POWER IN A 3.5” HIGH CHASSIS**

In the BL1350 Series 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. Units are supplied with analog remote control and available with optional RS-232 and IEEE-488 remote control interfaces. Other options include:

**INPUT**
- 115 VAC, +/-10%, 47-63 Hz
- Other frequencies are available
- No isolation: Input to Output

**OUTPUT**
- Power: 1350 VA
  - Units can be stacked for increased power, or 2- or 3-phase output
- Voltage:
  - 0-135 V or 0-270 V
  - Resolution: 1 V
  - Accuracy: +/- 2 % of full scale
- Frequency:
  - 45-500 Hz (Option E: 45-1000 Hz)
  - Resolution: 1 Hz
  - Accuracy: +/- 2 Hz
- Current:
  - 10 Amps, 0-135 V Range,
  - 5 Amps, 0-270 V Range
  - Resolution: 0.1 Amp, +/- 1 digit
  - Accuracy: +/- 2 % of full scale
- Crest Factor: 3 : 1
- Power Factor: 100% of rated output into any power factor load
- Distortion: 0.5% THD typical, measured at full load, 100 Volts, 50 Hz
- Line Regulation: +/- 0.1% for +/- 10% line change
- Load Regulation: +/- 0.7%, no load to full load
- Efficiency: 80% typical

**PROTECTIVE CIRCUITS**

- Input: Fast-acting main circuit breaker
- Constant Current: Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform

**CONTROLS / INDICATORS**

- Power On/Off: Circuit breaker
- Meter:
  - DMM: True RMS Volts,
  - True RMS Amps, Frequency
- Volts adjust:
  - Ten-turn pot to adjust voltage
- Frequency adjust:
  - Ten-turn pot to adjust Frequency
- Meter select switch:
  - Volts, Amps, Frequency
- Indicators:
  - Constant Current, Overtemp, Overload Latch
- Phase adjust:
  - Potentiometer (pot)
- Output On/Off:
  - Toggle switch
- Range:
  - Hi/Lo Switch
- Binding post:
  - Hot, Neut, Gnd
- Remote Control:
  - 0-10 VDC programming for voltage and frequency… contact closure for Output On/Off and range change
- External Synch:
  - Synchronizes AC output with external input

extended frequency range out to 1000 Hz and motor test option, which has the capability to soft-start motors, pumps and compressors, thereby eliminating the need for high-power devices.

Small size, quiet operation and high efficiency make the BL1350 Series ideal for industrial product testing, precision avionic test, power conversion, ATE, bulk power and motor generator replacement.

**Short Circuit:** Short-circuit overload electronically latches output open to protect load... power restored by recycling circuit breaker

**Thermal:** Internal temperature sensor prevents heat damage

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MECHANICAL & ENVIRONMENTAL

Dimensions: High-strength 19” (48.3 cm) rack mount chassis, 3.5”H X 22”D (8.9 cm X 55.9 cm)

Weight: BL1350B-1 & pf: 45 lbs (20.43 kgs), C-2 & C4: 70 lbs (31.78 kgs)

Operating Temperature: 32° to 131° F (0° to 55° C)

Input Connections: Barrier strip on rear

Output Connections: Binding posts on front and barrier strip on rear

PWM In/Out: Barrier strip on rear

External Synch: Barrier strip on rear

Remote control: DB-9 connector

OPTIONS: Contact factory for additional options

A: Safety sockets
B: Rubber feet
E: Extended frequency range, 45-1000 Hz
H: Cabinet enclosure for 3 units
I: IEEE-488 interface
IR: RS232 Interface
J: Input: 100/200 VAC single-phase
L: Locking pot
MT: Motor Test available on model B-1, C-2 and C4...see below
P: Parallel wiring for 2- or 3- units
R: Ruggedization
S: Slides
T: Output: 0-150 or 0-300 VAC
T2: Output: 0-34 or 0-135 VAC
W: Wiring for 3-phase configuration

OPTION MT: MOTOR TEST includes all of the specifications of the standard BL Series plus the following features to meet the requirements for motor testing:

- Unique overload protection prevents output distortion
- “Soft Start” allows starting motors in "locked rotor" condition by folding back the voltage and slowly increasing it as the motor starts to accelerate
- Capable of starting motors, which normally requires 140 Amps locked rotor starting currents
- Capable of supplying a running current up to 14 Amps at 50% duty cycle.

Rear View

The BL1350 Series is easily modified to meet your requirements