

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 or 230VAC, 1 ϕ , +/-10%, 47-63Hz

Other frequencies are available

Isolation: Yes
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

Contact factory for additional voltages

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



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

CONTROLS / INDICATORS

Power On/Off: Circuit breaker

Meter: DMM: True RMS Volts,
True RMS Amps, Frequency
Ten-turn pot to adjust voltage

Volts adjust: Ten-turn pot to adjust Frequency

Frequency adjust: Volts, Amps, Frequency

Meter select switch: Constant Current, Overtemp,
Overload Latch

Indicators: Potentiometer (pot)

Phase adjust: Toggle switch

Output On/Off: Hi/Lo Switch

Range: Hot, Neut, Gnd

Binding post: 0-10 VDC programming for
voltage and frequency... contact
closure for Output On/Off and
range change

Remote Control: Synchronizes AC output with
external input

External Synch:

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

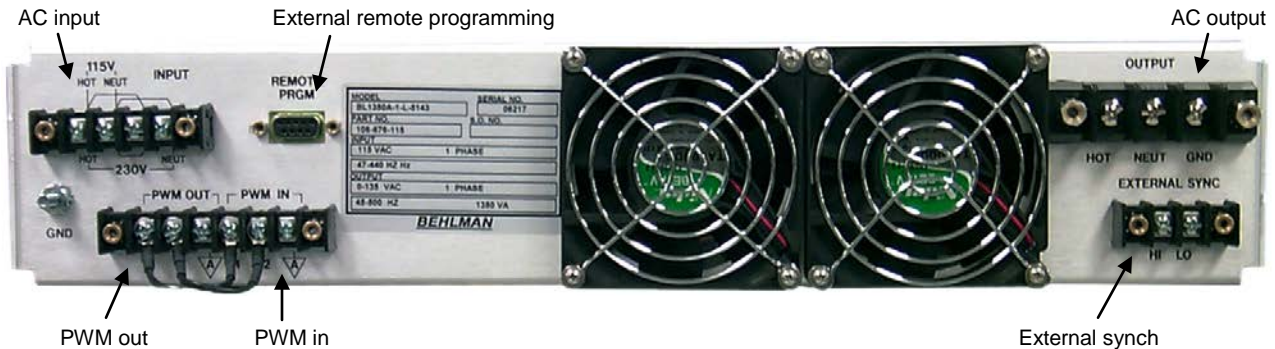
OPTIONS: *Contact factory for additional options*

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



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