

#### 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** See Model Selection Guide (reverse)

#### 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

**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



CE mark, 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.

#### 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

#### 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

**BL1350 Series Model Selection Guide**

Model	Input Voltage	Input (Note2) Frequency	Output Voltage	Isolation Input to Output
BL1350B-1	115 VAC, +/-10%	47-63 Hz	0 – 135 VAC or 0 – 270 VAC	No
BL1350C-2	115/230 VAC, +/- 10%	47-63 Hz	0 – 135 VAC or 0 – 270 VAC	Yes
BL1350C-4	120/208 VAC, 3 phase	47-63 Hz	0 – 135 VAC or 0 – 270 VAC	Yes
BL1350pf	85 – 270 VAC	47-63 Hz	0 – 135 VAC or 0 – 270 VAC	Yes

**OPTIONS:** *Contact factory for additional options*

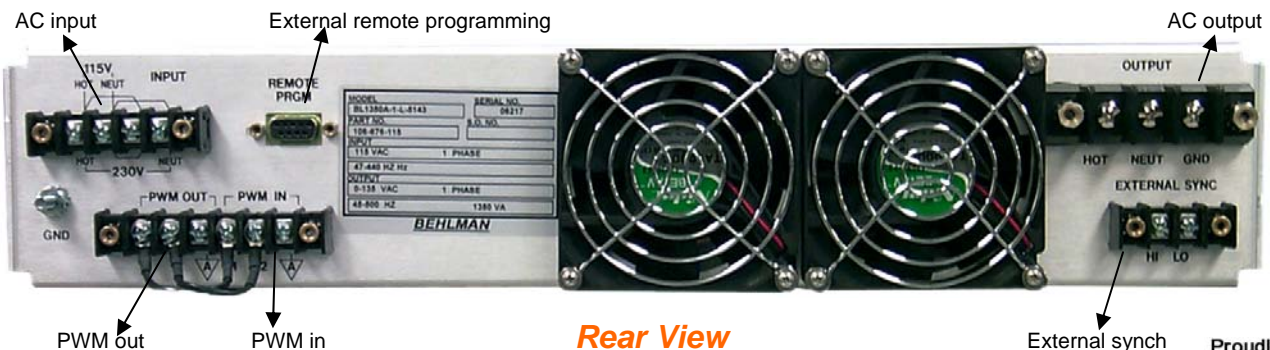
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|---|--|
| <b>A:</b> Safety sockets  | <b>J:</b> Input: 100/200 VAC single-phase                            |
| <b>B:</b> Rubber feet   | <b>L:</b> Locking pot  |
| <b>CE:</b> CE Mark available on model C-2 & pf...for model pf CE Mark for low voltage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

**NOTE 1: Options I, IR & P are not available for the BL1350pf**

**NOTE 2: Other input frequencies are available. Contact factory.**

**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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