

BL1350 Series



FEATURES

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

WORLD WIDE POWER ON YOUR BENCH OR IN YOUR TEST RACK

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 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.

INPUT See Model Selection Guide (reverse)

Load Regulation	+/- 0.7%, no load to full load
Efficiency	80% typical

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

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

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" (48.3cm) rack mount chassis, 3.5" Hx22"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 Frequency	Output Voltage	Isolation Input to Output
BL1350B-1	115 VAC, +/-10%	47 - 440 Hz	0 - 135 VAC or 0 - 270 VAC	No
BL1350C-2	115/230 VAC,	+/-10% 47-440 Hz	0 - 135 VAC or 0 - 270 VAC	Yes
BL1350C-4	120/208 VAC, 3 phase	47 - 440 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

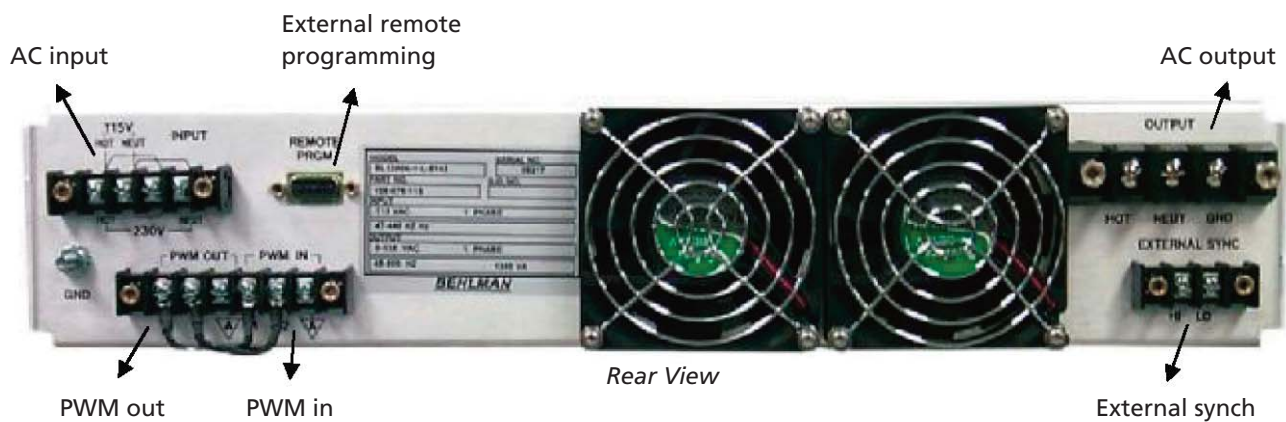
A	Safety sockets
B	Rubber feet
CE	CE Mark available on model C-2 & pf...for model pf CE Mark for low voltage directive (LVD)
E	Extended frequency range, 45-1000 Hz
H	Cabinet enclosure for 3 units
I	IEEE-488 interface
IR	RS232 interface
J	Input: 100/200 VAC single-phase
L	Locking pot
MT	Motor Test available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

Contact factory for additional options.

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



The BL1350 Series is easily modified to meet your requirements