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 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**

- 115 or 230VAC, 1φ, +/-10%, 47-63Hz
- Other frequencies are available
- Isolation: Yes

**OUTPUT**

- **Power:** 1350 VA
- **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

**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

**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.

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**Rear View**

*The BL1350 Series is easily modified to meet your requirements*