The BL3x500 High-Power Series delivers all the quality features our customers have come to expect from Behlman; clean sine wave output with excellent line and load regulation, high efficiency and low harmonic distortion. A multi-pulse input transformer offers low-input harmonic distortion and high power factor as required by MIL-STD-1399 and European standards. Unique protection circuitry provides for over-temperature protection, short-circuit protection and voltage fold-back during overloads to maintain undistorted waveforms. Amplitude and Frequency adjustment, line drop compensation, phase angle adjust and output on/off come standard. Units are supplied with analog remote control and available optional RS-232 and IEEE-488 remote control interfaces. Other options include Extended Frequency range up 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 BL High Power series ideal for industrial product testing, precision avionic test and power conversion, ATE, bulk power and motor generator replacement.

**INPUT**
- **Voltage:** 115/230VAC, 1 phase
- **Frequency:** 47-63 Hz

**OUTPUT**
- **Power:** 1500 VA
- **Voltage:** 0-135 V, L-N, 3 phase, isolated
  - **Resolution:** 1 V
  - **Accuracy:** +/-2 % of full scale
- **Frequency:** 45-500 Hz
  - (Option E: 45-1000 Hz)
  - **Resolution:** 1 Hz
  - **Accuracy:** +/-2 Hz
- **Current:** 3.7 Amps / phase
  - **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:** 3.0% THD typical, measured at full load, 115 Volts, 60 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 electronically latches output open to protect load... power restored by cycling circuit breaker
- **Thermal:** Internal temperature sensor prevents heat damage

**CONTROLS / INDICATORS**
- **Power On/Off:** Circuit breaker
- **Meters:** Three (3) DMM: True RMS Volts, True RMS Amps, Frequency
- **Voltage Adjust:** Ten-turn potentiometer to adjust voltage
- **Frequency Adjust:** Ten-turn potentiometer to adjust frequency
- **Phase select:** Three-position switch for phase A, B or C
- **Phase angle adjust:** Allows for front panel adjustment of phase angle A-B and B-C
- **Output:** Toggle switch
- **Indicators:** Power On, Constant Current, Over-temp, Overload Latch
- **External Synch:** Synchronizes AC output with external input
- **Remote Control:** 0-10 VDC programming for voltage and frequency contact closure for output on/off...external synch

www.behlman.com
AC Power Source/
Frequency Converter

MECHANICAL & ENVIRONMENTAL
Dimensions:
(1) 19” (48.3 cm) rack-mount
chassis 7” H and 22” D
(17.8 cm x 55.9 mm D)
Weight: 65 lbs (29.5 kgs)

ENVIROMENTAL / CONNECTIONS
Operating Temp: 32° F to 131° F (0-55° C)
Humidity: 0-95% RH non-condensing
Input Connections: Barrier strip on rear
Output Connections: Barrier strip on rear
Remote Control: DB-9 connector

OPTIONS
E: Extended frequency range, 45-1000 Hz
I: IEEE-488 Interface
IR: RS232 Interface
L: Locking pot
MA: Mounting Angles (2 per chassis)
R: Ruggedized for use in areas with shock
and vibration
S1: Slides
V: Fixed output voltage (ie 115VAC )
F: Fixed output frequency (ie 400Hz)
21-00: Cabinet with casters

Ordering Information
BL 3x500C -8 - X
Model Input Options
BL3x500C-8-IR-E
Optional RS232
Optional Extended Frequency
BL(F) 3X500C – 8 – V -F
Model Input Options
Fixed Output Voltage Fixed Output Frequency

Contact factory for additional options.

AC input connection
Ground stud
Analog remote control standard
AC output connection