

# Behlman

## Power Supply Model BL3X500C-8-5632



### Features

- **Multi-Pulse Input Rectification – Low Harmonic Distortion**
- **Analog Remote Control – Remote Programming**
- **Low cost per VA – Cost Savings**
- **Compact Size – Less rack space**

The BL3X500 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. Unique protection circuitry provides for over-temperature protection; short-circuit protection and voltage fold-back during overloads to maintain undistorted waveforms.

Small size, quiet operation and high efficiency make the BL High Power series ideal for industrial products testing, precision avionic test and power conversion, ATE, bulk power and motor generator replacement.

### SPECIFICATIONS

#### INPUT

Voltage 115/230 VAC, +/- 10%, 1 phase  
Frequency 47-63 Hz

#### OUTPUT

Voltage: 115/200 VAC, 3 phase, **Isolated and Floating.**

Resolution: 1 V  
Accuracy: +/-2 % of full scale

**Power:** 1.5 KVA

**Frequency:** 400 Hz

Resolution: 1 Hz  
Accuracy: +/-2 Hz

**Current:** 4.3 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% THD Typical

**Line Regulation:** 0.1% for +/- 10% line change

**Load Regulation:** 0.7% no load to full load

**Efficiency:** 80% typical

## CONTROLS/ INDICATORS

<b>Power On/Off:</b>	Circuit breaker
<b>Meters:</b>	Three (3) DMM: True RMS Volts, True RMS Amps, Frequency
<b>Phase select:</b>	Three-position switch for phase A, B or C
<b>Line Drop:</b>	Allows for front panel adjustment of output to compensate for voltage drop over long distance
<b>Phase angle adjust:</b>	Allows for front panel adjustment of phase angle A-B and B-C
<b>Output:</b>	Toggle switch
<b>Indicators:</b>	Power On, Constant Current, Overtemp, Overload Latch
<b>External Synch:</b>	Synchronizes AC output with external input
<b>Remote Control</b>	0-10 VDC programming for voltage and frequency...contact closure for output on/off...external synch

## PROTECTIVE CIRCUITS

<b>Input:</b>	Main circuit breaker
<b>Constant Current Mode:</b>	Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform.
<b>Overload Protection:</b>	Short Circuit overload electronically disables output to protect load. Power restored by cycling circuit breaker
<b>Thermal Protection:</b>	Internal temperature sensor prevents heat damage.

## ENVIRONMENTAL / CONNECTIONS

<b>Operating Temp:</b>	32° F to 131° F (0-55° C)
<b>Humidity:</b>	0-95% RH non-condensing
<b>Input Connections:</b>	Three meters cable with NEMA L5-30 plug
<b>Output Connections:</b>	FSL4-FR type female receptacle on the rear panel
<b>Remote Control:</b>	DB-9 connector

## MECHANICAL SPECIFICATIONS

<b>Dimensions:</b>	19" (48.3 cm) rack-mount chassis 7" H and 22" D (17.8 cm x 55.9 mm D)...65 lbs (29.5 kgs)
<b>Cooling:</b>	Internal fans

<b>OPTION 5632:</b>	Fixed output voltage at 115/200VAC, 3 phase and frequency at 400Hz Three meters cable with NEMA L5-30 plug FSL4-FR type female receptacle on the rear panel
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BL3X500-5632.03 Dec 09