Behlman Power Products

AC Power Source/ Frequency Converter

FEATURES

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

MANUAL CONTROL OR PROGRAMMABLE AC POWER

The BL7000 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 overtemperature 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

Annual An

BL7000

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: See table 1 **Frequency:** 47-63 Hz

OUTPUT

Power: 7000 VA

Voltage: 0-135 V, single phases, 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: 52 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

PROTECTIVE CIRCUITS (cont)

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

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

MECHANICAL & ENVIRONMENTAL

Dimensions:

Weight:

Single ø Input: High-strength cabinet with casters

250 lbs (113.5 kgs)

28.3" H x 31.6" D x 22.1" W

(71.9 cm H x 80.3 cm D x 55.6 cm W)

Three ø Input: (2) 19" (48.3 cm) rack-mount chassis

7" H and 8.75" H x 22" D

(17.8 cm and 22.2 cm H x 55.9 cm D)

and vibration

S: Slides

OPTIONS

E:

I:

IR:

L:

MA:

MT:

R:

V: Fixed output voltage (ie 115VAC) Fixed output frequency (ie 400Hz) F:

IEEE-488 Interface

RS232 Interface

Locking pot

Motor test

Extended frequency range, 45-1000 Hz

Ruggedized for use in areas with shock

Mounting Angles (2 per chassis)

21-00: Cabinet with casters

ENVIRONMENTAL / CONNECTIONS

Operating Temp: 32° F to 131° F (0-55° C) **Humidity:** 0-95% RH non-condensing

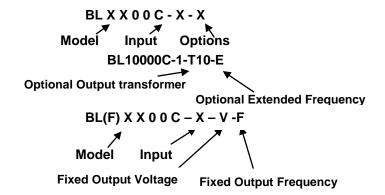
Input Connections: Barrier strip on rear Output Connections: Barrier strip on rear **Remote Control:** DB-9 connector

Input Voltages Table 1

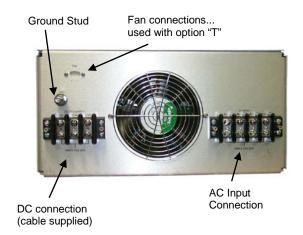
Option	Voltage +/- 10%	Frequency	Comments
C1	120/208 VAC, 3 phase	47Hz – 63Hz	
C2	220/380 VAC, 3 phase	47Hz – 63Hz	
C3	277/480 VAC, 3 phase	47Hz – 63Hz	
C4	200 VAC, DELTA, 3 phase	47Hz – 63Hz	
C5	346/600 VAC, 3 phase	47Hz – 63Hz	Requires contactor and fuses in place of circuit breaker
C6	230/400VAC, 3 phase	47Hz – 63Hz	
C7	240/415 VAC, 3 phase	47Hz – 63Hz	
C8	N/A	N/A	
C9	230 VAC, 1 phase	47Hz – 63Hz	Includes 21-00 stand alone cabinet
C9A	N/A	N/A	
C10	480 VAC, 1 phase	47Hz – 63Hz	Includes 21-00 stand alone cabinet

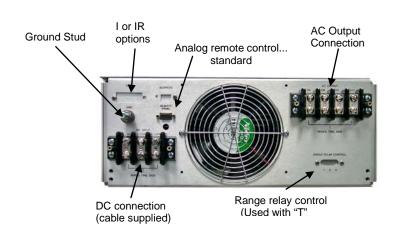
Contact factory for other input voltages

Ordering Information



Contact factory for additional options.







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