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

TOTAL STATE OF THE PARTY OF THE

BL3300

Shown with a single phase input

The BL3300 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 various regulatory 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. Extended frequency range up to 1000 Hz and Motor Test option, which has the capability to start motors, pumps and compressors thereby eliminating the need for high power devices, available on most models; contact factory for additional details related to these options.

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: 3000 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: 7.5 Amps / phase
Resolution: 0.1 Amp, +/-1 digit
Accuracy: +/-2 % of full scale

Crest Factor: 3:1

Power Factor: 100% power, 0.7 lead to 0.7 lag **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

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 **MECHANICAL & ENVIRONMENTAL**

ENVIRONMENTAL / CONNECTIONS

Dimensions:

Operating Temp:

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

7" H and 7" H x 22" D

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

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

3.5" H and 7" H x 22" D

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

-MT: Motor Test

OPTIONS

-E:

-l:

-IR:

-L:

-S:

-MA:

Ruggedized for use in areas with shock -R:

IEEE-488 Interface

RS232 Interface

Locking Pot

Extended frequency range, 45-1000 Hz

Mounting Angles (2 per chassis)

and vibration

Weight: Varies by model and options selected;

contact Behlman factory for details.

32° F to 131° F (0-55° C)

-T3-270: 0-270VAC @ 3.75A [†]

0-300VAC @ 3.3A [†] -T3-300:

Slides

-T3D-135/270: 0-135VAC @ 7.5A / 0-270VAC @ 3.75A^{†‡} -T3D-150/300: 0-150VAC @ 6.7A / 0-300VAC @ 3.A^{†‡}

-V: Fixed output voltage (e.g., 115VAC) -F: Fixed output frequency (e.g., 400Hz)

Humidity: 0-95% RH non-condensing Input Connections: Barrier strip on rear -21-00: Cabinet with casters

Output Connections: Barrier strip on rear † All voltages are L-N; add 3.5" chassis

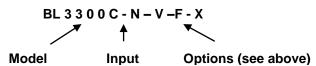
‡ 'T3D' output ranges switch-selectable Remote Control: DB-9 connector

Table 1: Input Voltages

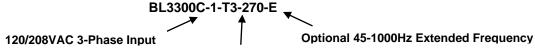
| Input Codes | Voltage +/- 10% | Frequency | Comments |
|-------------|-------------------------|-------------|--|
| C-1 | 120/208 VAC, 3 phase | 47Hz – 63Hz | |
| C-2 | 220/380 VAC, 3 phase | 47Hz – 63Hz | |
| C-3 | 277/480 VAC, 3 phase | 47Hz – 63Hz | |
| C-4 | 200 VAC, DELTA, 3 phase | 47Hz – 63Hz | |
| C-5 | 346/600 VAC, 3 phase | 47Hz – 63Hz | Requires contactor and fuses in place of circuit breaker |
| C-6 | 230/400VAC, 3 phase | 47Hz – 63Hz | |
| C-7 | 240/415 VAC, 3 phase | 47Hz – 63Hz | |
| C-8 | 115/230 VAC, 1 phase | 47Hz – 63Hz | Requires 7"H chassis in place of 3.5"H |
| C-9 | N/A | N/A | |
| C-9A | N/A | N/A | |
| C-10 | N/A | N/A | |

(Contact factory for other input options)

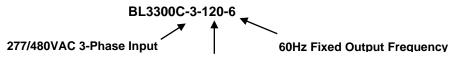
Ordering Information



Examples:

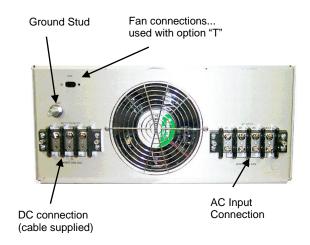


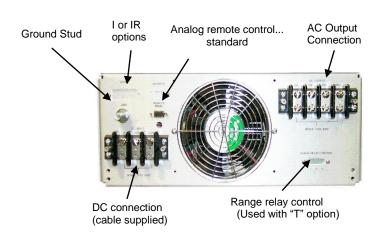
Optional 0-270VAC Output Transformer



120VAC Fixed Output Voltage

(Contact factory for additional options)





Rear View



www.behlman.com



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