

FEATURES

- Fixed 50, 60 or 400Hz and variable frequency
- Low input current distortion
- Small footprint
- Easy installation

25 KVA OF AC POWER IN A CABINET ONLY 22"W X 32"D

Behlman's BL Plus solid state AC power frequency converter offers greater efficiency, reduced downtime, and a significantly smaller footprint and easier installation than the motor generator it was designed to replace. The BL Plus has all 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 output current without waveform distortion. The BL Plus optional manual controller has three DMM's for volts, frequency (Hz) and amps and an oscillator that has three fixed frequencies of 50 Hz, 60 Hz and 400 Hz as well as a variable frequency of 45-500 Hz. Optional analog remote control is available with the standard controller or you can opt for the microprocessor controller with RS232 interface standard and optional IEEE-488.

Small size, easy installation, quiet operation and high efficiency make the BL Plus ideal for industrial product testing, precision avionic test, power conversion, ATE, bulk power and motor generator replacement.

BL PLUS 25KVA, 1-PHASE OUTPUT



Shown with Option M

INPUT

Multi-pulse input transformer for low input current THD

Voltage/frequency:

- | | |
|-------------------------|-----------------------|
| C1: 120/208, 57-63 Hz | C5: 346/600, 57-63 Hz |
| C2: 220/380, 47-53 Hz | C6: 230/400, 47-53 Hz |
| C3: 277/480, 57-63 Hz | C7: 240/415, 47-53 Hz |
| C4: 200 delta, 57-63 Hz | X: Custom input |

OUTPUT

- Power:** 25 KVA
- Voltage:** -XXX: Fixed at any L-N, 1-phase
- Accuracy:** 0.25% of Full Scale +/- 1 V
- 1: 0-132 VAC, L-N, 1-phase
-2: 0-264 VAC, L-N, 1-phase
-3: 0-305 VAC, L-N, 1-phase
- Frequency:** -XXX: Fixed at any frequency from 45-500 Hz
- Accuracy:** +/- 0.1 Hz
- Current:** -1: 190 Amps@ 0-132 V
-2: 95 Amps@ 0-264 V
-3: 82 Amps@ 0-305 V
- Accuracy:** 2% of Full Scale +/- 1 A
- Peak current:** Repetitive peak not to exceed 400 amps
- Power Factor:** 100% of rated output into any power factor load
- Distortion:** 3.0% THD typical, measured at full current, 115 Volts, 60 Hz
- Line Regulation:** +/- 0.5% for +/- 10% line change
- Load Regulation:** +/- 0.7%, no load to full load
- Efficiency:** 80% typical
- Line drop compensation:** +10% adjustable to compensate for output line losses

PROTECTIVE CIRCUITS

- Input:** Electronic circuit breaker
- Constant current:** Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform
- Constant current limit:** Ability to set the constant current limit from 10% to full scale
- Short circuit:** Short-circuit overload electronically latches output open to protect load... power restored by recycling circuit breaker
- Thermal:** Internal temperature sensor prevents heat damage by turning output off...output will turn on when reaching safe temperature

CONTROLS / INDICATORS

- Power On/Off:** Push to start...push to stop
- Line drop compensation:** Recessed potentiometer for 10% adjustment

MECHANICAL SPECIFICATIONS

Dimensions:	-1: 49"H x 31.6"D x 22.1"W, (134.6 cm X 80.3 cm X 56.1 cm) including fork lift base -2: 59"H x 31.6"D x 22.1"W, (160 cm x 80.3 cm x 56.1 cm) including fork lift base -3: 59"H x 31.6"D x 22.1"W, (160 cm x 80.3 cm x 56.1 cm) including fork lift base
Weight:	-1: 900 lbs. (408 kg) -2: 1200 lbs. (544 kg) -3: 1200 lbs. (544 kg)
Operating Temperature:	32 to 104° F, (0 to 40° C)
Storage Temperature:	-4 to 158° F, (-20 to 70° C)
Humidity:	0-95% RH non-condensing
Input Connections:	Four pressure terminals: A, B, C, N...protective ground stud provided
Output Connections:	Two pressure terminals: A, N

OPTIONS:

Contact factory for additional options including custom input and output

WF: "Wild Frequency" range of 350 to 880 Hz
M: **MAC2000** manual controller with three fixed frequencies of 50 Hz, 60 Hz and 400 Hz and variable frequency of 45-500 Hz



MA: MAC2000 with 0-10 VDC remote control for voltage and frequency, contact closure for output On/Off

P: **PAC2000** programmable controller with 40 characters X 2 line Vacuum Fluorescent display and front panel pushbutton control or remote control using RS232 interface supplied with controller.



Set: Volts, frequency, current limit and output On/Off

Display: Volts, current, frequency, current limit and fault indication for over voltage (O/V), over current (O/I), over temperature (O/T), constant current (C/C) and overload latch (O/L), watts (W), power factor (PF)

Remote sense in place of line drop compensation

PI: PAC2000 with IEEE-488 interface

MODEL SELECTION GUIDE

Model BL+25-1-(Input)-(Output)-(Fixed frequency and/or Options)

Examples:

Model: BL+25-1-C1-115-400
Power: 25 KVA unit, 1 phase output
Input: 120/208 VAC, 57-63 Hz
Output: Fixed volts (115 VAC),
fixed frequency (400 Hz)
Options:

BL+25-1-C2-1-WF-P
25 KVA, 1 phase output
220/380 VAC, 47-53 Hz
0-132 VAC, L-N, 1-phase

WF: Frequency range, 350-880 Hz
P: Programmable controller



www.behlman.com

ORBIT POWER GROUP
Behlman Electronics

Headquarters:
80 Cabot Court, Hauppauge, NY 11788
631 435-0410 800 874-6727
Fax: 631 951-4341

2363 Teller Road, Suite 108
Newbury Park, CA 91320
805 375-7046 800 456-2006
Fax: 805 498-2147

sales@behlman.com