

FEATURES

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

BL PLUS 30KVA, 3-PHASE OUTPUT

30 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.

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.



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, 47-63 Hz	C6: 230/400, 47-63 Hz
C3: 277/480, 57-63 Hz	C7: 240/415, 47-63 Hz
C4: 200 delta, 57-63 Hz	CX: Custom input

OUTPUT

Power:	30 KVA
Voltage:	-XXX: Fixed at any L-N, 3-phase
Accuracy:	0.25% of Full Scale +/- 1 V
	-1: 0-132 VAC, L-N, 3-phase
	-2: 0-264 VAC, L-N, 3-phase
	-3: 0-305 VAC, L-N, 3-phase
Frequency:	-XXX: Fixed at any frequency from 45-500 Hz
Accuracy:	+/- 0.1 Hz
Current:	-1: 76 Amps/phase @ 0-132 V
	-2: 38 Amps/phase @ 0-264 V
	-3: 33 Amps/phase @ 0-305 V
Accuracy:	2% of Full Scale +/- 1 A
Peak current:	Repetitive peak not to exceed 150 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 into a linear load
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
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:	Three recessed potentiometers for 10% adjustment phase A, B, C

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:	Four pressure terminals: A, B, C, N

NOTES:

1. See separate specification for PAC 2000

MODEL SELECTION GUIDE

Model BL+30-3-(Input)-(Output V/F)-(Options)

Examples:

Model: BL+30-3-C1-1-115/400
Power: 30 KVA unit, 3 phase output
Input: 120/208 VAC, 57-63 Hz
Output: Fixed volts (115/200 VAC),
fixed frequency (400 Hz)

BL+30-3-C2-1-P-WF
30 KVA, 3 phase output
220/380 VAC, 47-53 Hz
0-132 VAC, L-N, 3-phase
P: Programmable controller
WF: Frequency range, 350-880 Hz

OPTIONS: Contact factory for additional options including custom input and output

WF: "Wild Frequency" range of 350 to 880 Hz

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.

P3: Programmable Controller with dependent Voltage adjust A, B, C with RS232 Interface



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

Display: Volts A, B, C; current A, B, C; 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

P3I: Programmable Controller with independent Voltage adjust A, B, C with IEEE-488 Interface



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