

## BL5000-CE-5758A FREQUENCY CONVERTER SPECIFICATIONS

**Behlman's BL5000-CE-5758A Frequency Converter is a ruggedized, 19" rack mount system.**

**INPUT:** 120 VAC or 230 VAC, +/- 10%, 1-Phase, 47-63 Hz,

### OUTPUT:

Power: 5,000 VA  
Voltage: 0 - 700 VAC, L-N, 3-Phase, with locking pot  
Frequency: 30 - 120 Hz, with locking pot  
Current: 2.4 Amps/Phase  
Current Crest Factor: 3:1  
Power Factor: 100% of rated output into any power factor load.  
Distortion: 3% Typical THD  
Load Regulation: +/- 1.0% No Load to Full Load  
Line Regulation: +/- 0.1% for +/- 10% Line Change  
Efficiency: 80% typical.



### PROTECTIVE CIRCUITS:

Input Protection: Electronic circuit breaker, with indicator  
Constant Current: Overload automatically causes voltage fold back to provide maximum current without distorting output waveform.  
Short Circuit Protection: Short Circuit electronically latches output open to protect load. Power restored by recycling circuit breaker.  
Thermal Protection: Internal temperature sensor prevents heat damage.

### CONTROL/INDICATORS:

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  
Line Drop: Front panel adjustment of output to compensate for voltage drop over long distance.  
Output: On/Off toggle switch  
Indicators: Power On, Constant Current, Over Temp, Overload Latch  
Remote Control: Ethernet interface

### MECHANICAL SPECIFICATIONS:

Configuration: Three 19" Rack Mount Chassis. *\*Handles front and rear.*  
Control:\* 7.00"H x 22"D; wt. 50 lbs.  
Output:\* 7.00"H x 22"D; wt. 190 lbs  
Input:\* 8.75"H x 22"D; wt. 150 lbs  
Operating Temp: 0 to + 55°C.  
Humidity: 0-95% RH non-condensing.  
Connections: Circular MIL connectors for Input, Output and Interconnect  
Grounding: Ground Stud on each chassis.  
Interconnect Cables: **DC to DC-** Input to Control Chassis. **P/N 630-049-000**  
**AC to AC-** Control Chassis to Output Chassis **P/N 630-050-000**  
**Control-** Control Chassis to Output Chassis. **P/N 630-051-000**

### OPTION 5758A:

(Includes the Following)

**C-X:** Dual input voltage; 120 or 230VAC  
**T5-X:** 0-700VAC, L-N, 3-phase output  
Circular MIL connectors  
Input, Output & Interconnect cables  
Handles on rear of Input, Output & Control chassis  
**MT:** Motor Test option  
**R:** Ruggedized  
**L:** Locking Pots  
**ET/IR:** Ethernet interface  
**CE:** CE Mark

**INPUT, OUTPUT & INTERCONNECT CABLES :**

Input AC: P/N 630-073-000  
 Output AC: P/N 630-074-000  
 AC to XSCS: P/N 630-072-000

**ADDITIONAL OPTIONS:**

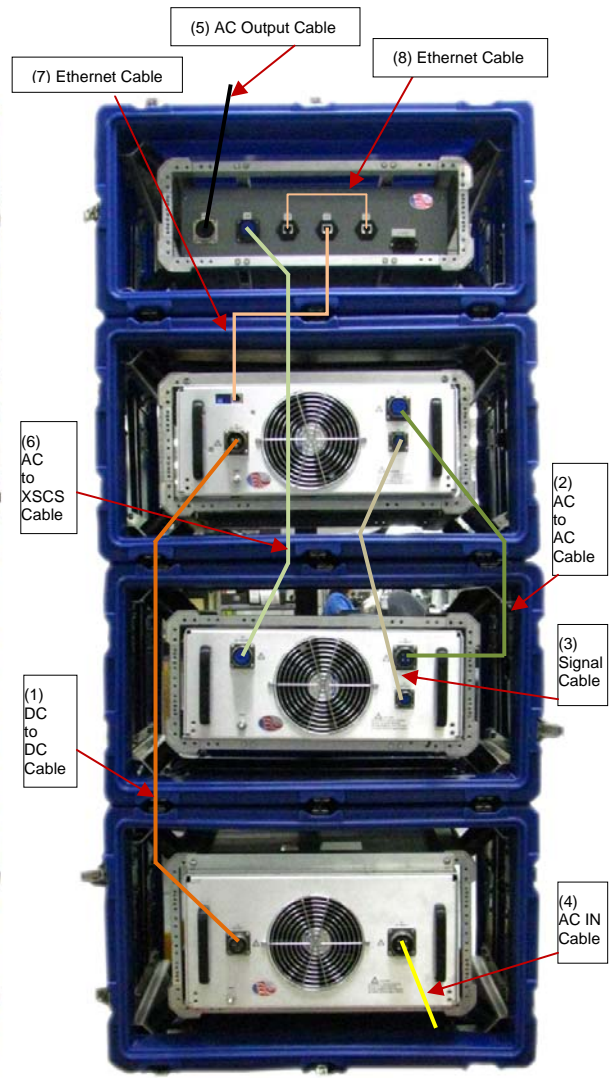
**XCSA-A:** Surface Control Chassis; 5.25"H x 17"D; wt. 25 lbs.  
**Y-Cable:** Customer P/N 100395050D Rev AC  
**(2) Ethernet:** P/N 110-713-001  
**BNC:** Supplied with Function generator  
**XSCX AC In:** Supplied with Function generator  
**Transit cases:** (1) 3U size. Customer P/N 100547217  
 (2) 4U size. Customer P/N 100547221  
 (1) 5U size. Customer P/N 100547223



**Rear View**



**Front view in Transit cases  
(Front & rear covers removed)**



**Rear view in Transit cases  
(Front & rear covers removed)**

**Behlman**

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