

# Behlman Power Products

## AC-AC, Frequency Converters, Inverters, DC-DC, AC-DC, DC-AC, UPS

For more than 50 years, Behlman power products have performed in a wide range of commercial, industrial and military applications, even in the most extreme environments. We have a proven ability to solve any power requirement, and we support our products with personal service that exceeds your highest expectations.

## Standard, Modified Standard, Custom and COTS Power Solutions

Whether you require a standard power supply, an application-specific custom design or anything in between, Behlman turns your specifications into deliverable products, on time and on budget. Our proven engineering capabilities enable us to configure our wide range of designs to your individual requirements, to provide high-quality, fast-turnaround, low-cost solutions. Our expertise includes:

- Custom designs
- Build-to-print
- Reverse-engineering
  - Modernizing old or obsolete power sources
  - COTS and modified COTS designs

The **POWER** behind  
better performance.

# AC Power Sources/Frequency Converters

## Power Passport Series



### World wide power on your bench or in your rack!

High-performance, low-cost options to convert from and to any single phase avionics, shipboard or world wide power. These proven performers deliver clean sine wave output with excellent line and load regulation, high efficiency and low harmonic distortion.

**Power:** 1,350 VA  
**Input:** Single phase  
**Output:** Dual Range: 0–135 & 0–270 VAC  
**Frequency:** 50, 60 & 400 HZ or 45–500 Hz  
**Options:** Analog remote control, IEEE-488, RS232, ethernet, extended frequency, CE Mark

## BL & BL High Power Series



### Low-cost AC in a compact package!

These full-featured units include fully adjustable voltage and frequency, true RMS display of voltage, current and frequency, remote control via 0-10VDC, unique overload protection and line drop compensation. Three phase input models offer multi-pulse input transformers for low input current harmonics and high PF.

**Power:** 1,350 VA to 20,000 VA  
**Input:** Single & three phase  
**Output:** Single & three phase  
**Frequency:** 45–500 Hz  
**Options:** IEEE-488, RS232, ethernet, extended frequency, CE mark

### Easily modified to meet your requirements.

## BL-PLUS Series



### Economical, high-quality power up to 180 KVA!

Ideal solutions for a wide range of commercial, industrial, military, avionics and marine applications. Offering solid-state 45–500 Hz power in fixed, variable and remote controlled models. BL-Plus units require minimal maintenance, and are far more efficient and economical than rotary systems. Variable voltage and frequency, low input THD and a small footprint.

**Power:** 30,000 VA to 128,000 VA  
**Input:** Single & three phase  
**Output:** Single & three phase  
**Frequency:** 50, 60 & 400 HZ or 45–500 Hz  
**Options:** IEEE-488, RS232, ethernet, extended frequency, CE mark

### Easily modified to meet your requirements.

## ACM Series/ACP Series



### Instrument-quality linear AC power sources!

High-quality power to meet your most stringent testing requirements. All ACM/ACP units feature wide-bandwidth amplifiers, and very low distortion, and are available with manual control or IEEE-488 programmable control.

**Power:** 250 VA to 9,000 VA  
**Input:** Single & three phase  
**Output:** Dual range: 0–135 & 0–270 VAC, Single & three phase  
**Frequency:** 45–2,500 Hz standard, 45–10,000 Hz optional  
**Options:** Higher power, additional output voltages, IEC test units, CE mark

## Inverters

### Behlman Inverters



### **Rugged, instrument-quality units for AC power from your DC source!**

Behlman Inverters are proven, easy-to-use solutions for delivering AC power from your batteries or other DC source. Rugged design and reliable performance make them the smart choice for utilities and/or industrial environments where power transients and surges are a concern. Clean, low-distortion sine wave outputs make them ideal for powering sensitive electronics such as microprocessor-based instruments and PLC's.

- Sine wave or modified sine wave output; isolated and floating
- Units are available in shelf-mount or rack-mount configurations
- 100% of rated power into any power factor load
- Excellent line and load regulation
- Optional alarms and indicators

## Uninterruptible Power Sources

### PUPS Series



### **True on-line with zero switchover time!**

These uninterruptible power sources are advanced, full-feature UPS using digital microprocessor technology, combined with state-of-the-art IGBT inverters to provide a true on-line full-time power conditioning and fail safe equipment protection. These rugged, compact UPS units feature a pure sine wave output, brownout protection with true voltage regulation, and extensive computer and network support software.

- True on-line design
- Full-time power conditioning
- True line and load regulation
- Fault-tolerant, fail-safe design
- 650 VA to 1100 VA in only 3.5" (2U) rack height, 1500 VA in 5.25" (3U) height
- Extended battery options
- DOS, Windows, Network and Unix software interface and shut down

**Behlman specializes in modified and custom UPS units for military, industrial and commercial applications**

## Custom AC Power Sources

### Behlman Custom



### **Power supplies tailored to meet your unique requirements!**

In addition to our wide range of standard and modified standard products, Behlman has vast experience in designing and manufacturing custom AC power sources for a broad range of applications and industries.

- Custom enclosures
- Special packaging/paint
- Special connectors
- Series or parallel capability
- Master/slave configuration
- Fixed or variable outputs
- Custom output voltages, single or three phase
- Ruggedization for harsh environments
- Modifications for high shock and vibration

## Custom DC and High-voltage Power Sources

### Behlman COTS

### **Rugged, ultra-reliable power supplies!**



For military applications there are no better solutions than the Behlman custom DC and high-voltage power supplies that have proven themselves over and over again in the air, at sea and on land. Whether helping to launch new state-of-the-art battle systems or replacing obsolete power supplies to extend the life of critical equipment, Behlman provides the military with superb mission support.

- Build-to-print
- Reverse-engineering
- Modified or custom designs
- PFC, auto-ranging, hot-swap
- Meet all required Mil-standards

# The power behind better performance for a broad range of industries.

## **Aerospace/Avionics**

Ultra low-noise, high shock and vibration tolerant power supplies designed to withstand the severe environments found in aerospace/avionics applications.

## **Defense**

Military standards-compliant COTS and build-to-print AC or DC power and UPS products for harsh environment applications such as military ground-based test equipment, mobile, shipboard, ground and airborne systems.

## **Gas and Oil exploration**

Rugged, reliable AC power supplies and UPS for powering "down hole" tools. Manufactured to withstand the demands of oil rigs and drill sites, and customized to meet your requirements.

## **Motor Testing**

Compact, high-performance AC power supplies that fold back voltage to maintain maximum rated current without output waveform distortion. "Soft starts" streamline test time by eliminating the need to restrain the motor.

**For a free consultation regarding your power product requirements, call toll-free 1 800 874-6727, or email [sales@behlman.com](mailto:sales@behlman.com)**

## **Production Test (ATE)**

Highly reliable and economical rack mount AC power sources with remote control capabilities for voltage, frequency and current.

## **Railroad**

Ruggedized AC signal sources, frequency converters, inverters, UPS and DC-DC converters for use track-side or on board. Automated train control and cab signal power systems.

## **Shipboard**

AC and DC power sources, frequency converters, inverters and UPS units for the full range of commercial and military shipboard applications.

## **Utility/Telecom**

Inverters ideal for powering sensitive electronics. Ruggedized, and available with either sine wave or modified sine wave outputs, in both online and standby versions.

© 2004 Behlman Electronics Inc. All rights reserved. Specifications subject to change without notice. All trademarks are the property of their respective owners.

# [www.behlman.com](http://www.behlman.com)

## **Behlman Electronics Inc.**

*A Subsidiary of Orbit  
International Corporation*

80 Cabot Court  
Hauppauge, NY 11788  
631 435-0410  
800 874-6727  
Fax 631 951-4341  
[sales@behlman.com](mailto:sales@behlman.com)

4532 Telephone Road, Suite 103  
Ventura, CA 93003  
805 642-0660  
800 456-2006  
Fax 805 642-0790  
[sales@behlman.com](mailto:sales@behlman.com)