Behlman’s RR series of Railroad Signal Sources/Frequency Converters are low cost, highly reliable, switch mode units built for Railroad Signaling. The RR series can be supplied with any single or three-phase input and outputs a clean, regulated AC at a precise frequency from 25 Hz to 250 Hz. These rugged signal sources are built to support the rigors of operating in the harsh environment of Railroad signaling equipment.

**FEATURES**
- Input & Output Isolation Transformers
- Short circuit protection with Auto-reset
- Rugged construction
- Optional Alarm contacts and LED indicators
- Optional AAR terminals for input & output

**INPUT**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8:</td>
<td>120 VAC +/- 10%, Single-phase</td>
</tr>
<tr>
<td>C9:</td>
<td>240 VAC +/- 10%, Single-phase</td>
</tr>
<tr>
<td>C10:</td>
<td>480 VAC +/- 10%, Single-phase</td>
</tr>
</tbody>
</table>

Frequency: 57 - 63 Hz. Other frequency available, contact factory.

**OUTPUT**

Voltage: Any Fixed voltage 100 to 480 VAC, single-phase, **Transformer Isolated and Floating**.

Frequency: Any Fixed Frequency from 50 to 250 Hz +/- 0.25 Hz

Power: 9000 VA

Current Crest Factor: 3:1

Power Factor: 100% of rated output into any power factor load

Distortion: 2.0% Typical THD, full resistive load.

Load Regulation: ±1.0% No Load to Full Load

Line Regulation: ±0.5% for ±10% Line Change

Efficiency: 80% typical

**CONTROL CIRCUIT**

External Sync: Synchronize AC output with 120 VAC external input.
PROTECTIVE CIRCUITS / INDICATORS

Input: Main circuit breaker and surge arrestors.
Constant Current Mode: Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform.
Overload Protection: Short Circuit overload electronically disables output to protect load. Automatic reset upon overload removal.
Thermal Protection: Internal temperature sensor prevents heat damage.
Output: Surge arrestors & transformer isolated.
Meters: Digital Meters for Volts, Amps & Frequency Accuracy, +/- 2% Full Scale / +/- 1 digit.

MECHANICAL SPECIFICATIONS

Dimensions: High strength rack cabinet with casters 44"H x 31.6"D x 22.1"W.
Weight: 600lbs
Operating Temperature: 0 to 50°C.
Cooling: Internal fans.
Input connections: Screw type terminals.
Output connections: Screw type terminals.
Sync connections: Screw type terminals

OPTIONS:

A: Alarms, Contact closure & Indicator
   1. Inv OK - Loss of Inverter output.
   2. Sync - Loss of sync input
   3. Lock - Out of phase condition between Inverter output and Sync Input
   4. Over Temp - Over Temperature

AAR: AAR Terminals, input and output

ID: Input Turn on Delay

Model Selection:

BL9200-C10-RR480/100-A-AAR
   Input: 480 VAC, single-phase, 57-63 hZ
   Output: 480 VAC, 100 Hz
   Option: Alarms & AAR terminals