

# Behlman

## BL9200-(Input)-RR-(V/F) Railroad Signal Source SPECIFICATIONS

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

Voltage

**C8:** 120 VAC +/- 10%, Single-phase

**C9:** 240 VAC +/- 10%, Single-phase

**C10:** 480 VAC +/- 10%, Single-phase

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

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