

BL12000-(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

C1: 120/208 VAC +/- 10%, Three-phase

C3: 277/480 VAC +/- 10%, Three-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:

12000 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:

$\pm 1.0\%$ No Load to Full Load

Line Regulation:

$\pm 0.5\%$ for $\pm 10\%$ 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:

BL12000-C1-RR-480/100-A-AAR

Input: 120/208 VAC, Three-phase, 57-63 hZ
Output: 480 VAC, 100 Hz
Option: Alarms & AAR terminals



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