

BL3100-(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: 230 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: 3000 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

Inverter

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:	Two high strength 19" rack mount chassis, each: 7.0"H x 22"D.
Weight:	225 lbs
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

21-00: High strength **Rack Cabinet** with casters 30"H x 31.6"D x 22.1"W.

Model Selection:

BL3100-C8-RR120/100-A-AAR

Input: 120 VAC, single-phase
Output: 120 VAC, 100 Hz
Option: Alarms & AAR terminals



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