

## BL3100C-8-RR100 Rail Road Signal Source SPECIFICATIONS

### INPUT

Voltage: C-8: 115/230 VAC +/- 10%, Single Phase.  
Frequency: 57 - 253 Hz

### OUTPUT

Voltage: 120 VAC, Single Phase,  
**Isolated and Floating.**  
Frequency: 100 Hz, +/- 0.25 Hz  
Power: 3 KVA  
Current: 25 Amps  
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: 85% 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.

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## MECHANICAL SPECIFICATIONS

|                        |   |
|------------------------|---|
| Dimensions:            | Two high strength 19" rack mount chassis, each: 7.0"H x 22"D. |
| Weight:                | 225lbs  |
| 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
- ID: Input Turn on Delay**
- RC: Ruggedized** and **Conformally** coat PC boards
- S10: Slides**, heavy duty, full set for each chassis

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