<u>BEHLMAN</u>

RR5100-C9-120/100-5291 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 signal 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 with conformal coated boards
- Removable washable air filters
- Alarm contacts and bi-color LED indicators
- AAR terminals for input & output

INPUT		
Voltage	-C9:	240 VAC +/- 10%, single-phase

Frequency: 57 - 63 Hz

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Power:	5000 VA
Voltage/current:	Transformer Isolated , single-phase, adjustable +/- 10%, with locking device
	120 VAC @ 42 Amps
Frequency:	100 Hz , +/- 0.25 Hz
Crest Factor:	3:1
Power Factor:	100% of rated output into any power factor load
Distortion:	2.0% THD typical, full resistive load.
Load Regulation:	+1.0% no load to full load
Line Regulation:	$\pm 0.5\%$ for $\pm 10\%$ line change

CONTROL CIRCUIT

External Sync: Synchronize AC output with 120 VAC external input



PROTECTIVE CIRCUITS / INDICATORS

Input:	Main electronic circuit breaker, surge arrestor, under-voltage over-voltage, over current and electronic soft-start	
	Amber Lamp- AC input	
	Green Lamp- Power On	
	Red LED- Under Voltage (UV) or Over Voltage (OV)	
	Red LED- Over Current	
Constant Current:	Overload automatically causes voltage fold-back to provide	
	maximum current without distorting output waveform.	
Overload:	Short Circuit overload electronically disables output to	
	protect Inverter with Automatic reset upon overload removal.	
	Red LED- Fault	
Fan LED:	Yellow LED- Fan On	
Thermal:	Internal temperature sensor prevents heat damage	
Output:	surge arrestor	
Meters:	Digital Meters for Volts, Amps & Frequency	
	Accuracy, +/-2% full scale <u>+</u> 1 digit	

ALARMS - Four form C contacts with bi-color (Green/Red) LED indicators

- 1. Sync LED-Green (OK) / RED (Fault)
- 2. Lock LED-Green (OK) / RED (Fault
- 3. Inverter LED-Green (OK) / RED (Fault
- 4. Temp LED-Green (OK) / RED (Fault

MECHANICAL SPECIFICATIONS-Rugged construction with conformal coated boards

Dimensions:High strength rack cabinet with casters 30"H x 31.6"D x 22.1"WWeight:400 lbs

Operating Temperature: 0 to 50° C

- **Cooling:** Internal fans (Air flow front to rear)
- Air Filter: Removable, washable filter
- Humidity: 0 95 % Non-condensing

Conne	ctions:	
	Input:	AAR Terminals. LINE, NEUT, GND
(Output:	AAR Terminals. HI, LO, GND
;	Sync:	AAR terminals. HI, LO
1	Alarms:	AAR terminals. (4) sets NC, C, NO
(Output: Sync:	AAR Terminals. HI, LO, GND AAR terminals. HI, LO

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