

## BL+20-1-C-1-480-25-RR5212 Rail Road Signal Source SPECIFICATIONS

### INPUT

Voltage: 120/208 VAC +/- 10%, Three Phase.  
Isolated and Floating.  
Frequency: 60 Hz

### OUTPUT

Voltage: 480 VAC, Single Phase,  
Isolated and Floating.  
Frequency: 25 Hz, +/- 0.25 Hz  
Power: 20 KVA  
Current: 42 Amps  
Current Crest Factor: 3:1  
Power Factor: 100% of rated output into  
any power factor load  
Distortion: 2.0% Typical THD  
Load Regulation:  $\pm 0.7\%$  No Load to Full Load  
Line Regulation:  $\pm 0.1\%$  for  $\pm 10\%$  Line Change  
Efficiency: 80% typical



### CONTROL CIRCUIT

External Sync: Synchronize AC output with external input.

### PROTECTIVE CIRCUITS / INDICATORS

Input: Main electronic circuit breaker.  
Input Reset Delay. 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

Meters: Digital Meters for Volts, Amps & Frequency  
Accuracy + 1 Digit.

## PROTECTIVE CIRCUITS / INDICATORS, con't:

Alarms: Loss of Converter Output, Alarm contacts and panel lamp.  
Loss of 120Vac sync signal, Alarm contacts and panel lamp.  
Out of phase condition of sync signal Vs converter output, Alarm contacts and panel lamp.  
Converter Over Temperature, Alarm contacts and panel lamp

Alarm Contacts: Form C, 120Vac or 32Vdc @ 2Amps.

## MECHANICAL SPECIFICATIONS

Dimensions: 2 x High strength rack cabinet with Fork Lift Base  
Main cabinet: 53"H x 31.6"D x 22.1"W  
Output transformer cabinet: 42"H x 36.5"D x 25"W.

Operating Temperature: 0 to 40° C., 32 -104°F.

Humidity: 0 – 95 % Non condensing.  
PC Boards conformally coated

Cooling: Internal fans.

Filtering: Front Panel, removable and washable Filter.

Input connections: Pressure Terminals

Output Connections: Pressure Terminals

Option 5212 includes: -A-AAR-ID-RC-AF  
("Alarms, AAR Terminals, Input turn on Delay, Rugged and Conformal coating, Air Filters ", Plus fixed output voltage and frequency, and second chassis for 25Hz output transformer.)

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