

# Locomotive Cab Inverter

**PRIME**  
Railroad  
Products



## PC5291-3

### Inverter 3000va per channel

True Sine-wave

9235 Roe St.  
Pensacola, FL 32514  
Tel.850-332-7193



Designed for continuous duty rail transportation service – 74 vdc input

Designed for high in rush loads, Air Conditioners, Microwaves etc..

Designed for mobile and industrial applications, meets IEC60571 standard

Efficiency greater than 85%

Hybrid cooling permits extended operating operating temperature range and extended component life

Self-protected for overloads, shorts, over temperature, input over and under voltage, reverse polarity and surge suppression

Incorporates output filtering for extremely low EMI emissions. Completely isolated input to output.

Synchronization available for more power output



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### Specification:

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### Input

Voltage 74 Vdc nominal , 64 to 89 Vdc  
Current 46 Amperes @74 Vdc and 3000 VA load per channel (2 channels)

### Output

Voltage 117 Vac  $\pm 5\%$  over full operating range  
Power 3000 Va nominal , 3100 Va (max) (per channel)  
Current limit 27 Amperes rms  
Load regulation 5% from no load to max load  
Waveform Sinusoidal (THD  $< 5\%$ )  
Frequency 60 Hz  $\pm 1$  Hz  
Load power factor 0.7 lead to 0.7 lag  
Efficiency  $\geq 85\%$  at nominal load

### Indicators

DC input On when voltage present and within operating range  
Flashing when voltage present and over or under range  
AC output ON when available  
Flashing when not available due to over temperature  
OFF when overcurrent  
Fault Indicator ON when input fuse is open

### Protection

Over-current Cut-off after 2 seconds, automatic reset after 30 seconds  
Input overvoltage Shutdown above 90 Vdc  
Input undervoltage Shutdown at 61 Vdc  
Restart at 64 Vdc  
Overload Output thermally protected  
Input reverse polarity Protected  
Input protection Fuse, surge suppression and filter.  
Isolation Transformer, floating output

### Environment

Operating temp.  $-40^{\circ}\text{F}$  to  $160^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $71^{\circ}\text{C}$ )  
Storage temp.  $-40^{\circ}\text{F}$  to  $185^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ )  
Dimension 14.25''H 18.43'' L 9.5 '' D  
Weight 108 Lbs. (49.09 kg)

### Option

Control input (Must be define when ordering)

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