Locomotive Cab Inverter

PC5291-3

Inverter 3000va per channel
True Sine-wave

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:

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 ±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 ±1 Hz
Load power factor 0.7 lead to 0.7 lag
Efficiency ≥85% at nominal load

Indicators

DC input On when voltage present and within operating range
Flash when voltage present and over or under range
AC output ON when available
Flash 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°F to 160°F (-40°C to 71°C)
Storage temp. -40°F to 185°F (-40°C to 85°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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