

<b>Ekyrail Enterprises inc.</b>			
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Sujet :		<b>Inverter 3000va</b>	

# Inverter 3000va

## True Sinewave

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 temperature range and extended component life.

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

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



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### Specification:

#### Input

Voltage 74 Vdc nominal, 64 to 89 Vdc  
 Current 46 Amperes @74 Vdc and 3000 VA load

#### Output

Voltage 117 Vac  $\pm 5\%$  over full operating range  
 Power 3000 Va nominal, 3100 Va (max)  
 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 LED Green ON Steady – Indicates operating voltage is within operating range  
 Green Flashing – Indicates operating voltage is out of range (over or under).  
 Green OFF – No input voltage or reverse polarity.

AC output LED Green ON Steady – Indicates that 120Vac is available.  
 Green Flashing, – Indicates overheating or overloaded.  
 Green – OFF – No output voltage, because Dc over- under voltage, wrong polarity.

Fault Indicator LED RED – ON – 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 64 Vdc  
 Restart at 69 Vdc  
 Overload Output thermally protected  
 Input reverse polarity Protected  
 Input protection Fuse, surge suppression and filter.  
 Isolation Transformer, floating output  
 Withstand voltage 1500VRMS 1minute between DC INPUT and AC OUTPUT to case and DC INPUT to AC 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)  
 Output power derating 25va/°C from 40°C to 71°C (104°F to 160°F)  
 Dimension 14.25''H 10'' L 9.5 '' D  
 Weight 48 Lbs (21.77 kg)



