

Ekyrail Enterprises Inc.			
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Subject: Inverter 6000Vva, 3000Va, per channel			

Inverter 6000Va, 3000Va per channel

True Sinewave



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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 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 ± 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

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 18.43'' L 9.5 '' D
Weight 108 Lbs. (49.09 kg)
Withstand voltage 1500VRMS 1minute between DC INPUT and AC OUTPUT to case
and DC INPUT to AC OUTPUT.

Option

Control input (Must be define when ordering)



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