

Ekyrail Enterprises inc.			
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Subject: Inverter 6000va, 3000va per chanel			

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 ±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
 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

LEDS STATUS (Per side)			DIAGNOSTIC
DC IN	AC OUT	FAULT	
ON	ON	OFF	FUNCTIONAL
ON	OFF	OFF	NO AC OUTPUT
FLASH	OFF	OFF	UNDER / OVER VOLTAGE INPUT
OFF	OFF	ON	INTERNAL DAMAGE
OFF	OFF	OFF	NO INPUT VOLTAGE OR REVERSE POLARITY
FLASH	FLASH	OFF	OVER HEATING, OVERLOAD OR SHORT CIRCUIT

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
 Over Temperature Cutoff at +100°C(212F), restart at +90°C(194F) (Internal temperature)
 Input reverse polarity Protected
 Input protection Fuse, surge suppression and filter.
 Isolation Transformer, floating output

Environment

Operating temp. -40°F to 158°F (-40°C to 70°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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