

<b>Ekyrail Enterprises inc.</b>			
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Subject: <b>Inverter 2500va</b>			

# Inverter 2500va

## 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%

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 40 Amperes @74 Vdc and 2500 VA load

### Output

Voltage 117 Vac  $\pm$ 5% at full operating range (2500va)  
 Power 2500 Va nominal, 2550 Va (max)  
 Current limit 23 Amperes rms  
 Line regulation 5% from no load to max load (64 to 89vdc)  
 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

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

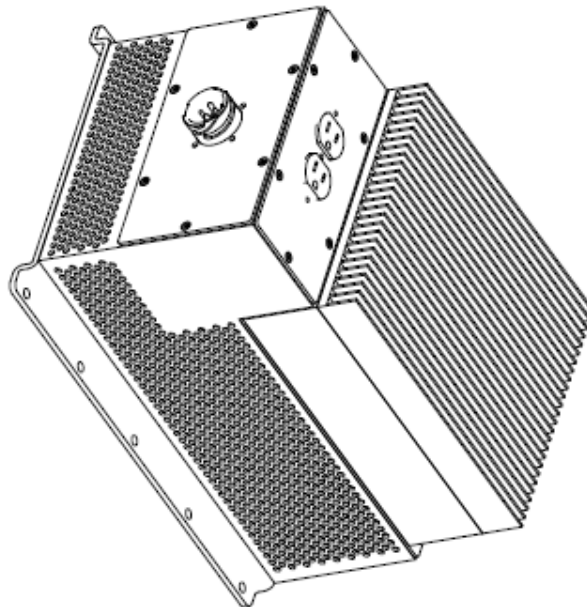
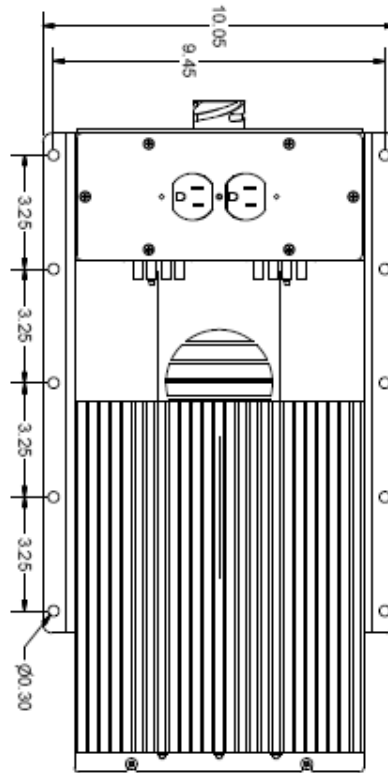
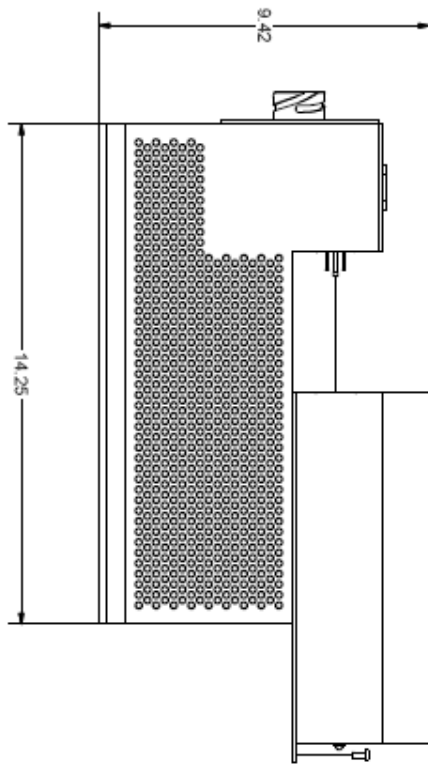
Over-current Cut-off after 2 seconds, automatic reset after 30 seconds  
 Input overvoltage Shutdown above 90 Vdc  
 Input undervoltage Shutdown at 64 Vdc  
 Restart at 69 Vdc  
 Overload Output thermally protected  
 Over Temperature Cutoff at +100°C(212F), restart at +90°C(194F) (Internal temperature)  
 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 10'' L 9.5 '' D  
 Weight 48 Lbs (21.77 kg)

Subject:

**Inverter 2500va**



EKYRAIL ENT. INC.	
TITRE/TITLE	
INVERTER	
2.5KVA	
DESIGNÉ/VAN TAILLON	DESIGN#:
VERIFIE	1020070000
APPROUVE	FORMAT DIMENSION 17/11
ÉCHELLE	PAGE:1 DE 1

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