

INVERTER 300va



PRODUCT OVERVIEW

The model 300 is a true sine wave inverter operating from 74Vdc (56 to 85 Vdc) with an absolute maximum input voltage of 90Vdc. It outputs 117Vac true sine wave at 60 Hz $\pm 0.05\%$ with a total harmonic distortion of less than 2%. The load regulation is $\pm 6\text{Vac}$ from no load to 100% load and $\pm 1\text{ Vac}$ over the full input voltage range. The efficiency is 85% at rated load of 300VA or 2.6Arms.

The unit is completely self-protected from indefinite short circuits. The unit will supply 12Arms into a short circuit for 2 seconds after which it will shut off. After 30 seconds the unit will restart, if the short has cleared the unit will start according to the load conditions however if still shorted it will output 12Arms for 2 seconds and shut down. This sequence can be repeated indefinitely without damage.

The unit has an overload capability of 8Arms for 5 seconds. If the unit is supplying greater than 4Arms after 5 seconds, the unit will shut down for 4.5 minutes and then restart. If the output drops below 4Arms before the 4.5 seconds has elapsed then the unit will continue to operate.

INVERTER 300va

PIN 1020020000

Input	
Voltage	74 Vdc nominal , 56 to 89 Vdc
Current	4.05 Amperes @74 Vdc and 300 VA load
Output	
Voltage	117 Vac ±5% over full operating range
Power	300 Va nominal , 450 Va (max) 10 minutes
Current Limit	8 Amperes rms
Load Regulation	5% from no load to max load
Waveform	Sinusoidal (THD <2%)
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
Protection	
Over-current	Cut-off after 2 seconds, automatic reset after 30 seconds
Input Overvoltage	Shutdown above 90 Vdc
Input Undervoltage	Shutdown at 56 Vdc. Restart at 58 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	10.5"D 7.25" L 5.38" H
Weight	10 Lbs (4.5 kg)

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