

# 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

<b>Input</b>	
<b>Voltage</b>	74 Vdc nominal , 56 to 89 Vdc
<b>Current</b>	4.05 Amperes @74 Vdc and 300 VA load
<b>Output</b>	
<b>Voltage</b>	117 Vac $\pm$ 5% over full operating range
<b>Power</b>	300 Va nominal , 450 Va (max) 10 minutes
<b>Current Limit</b>	8 Amperes rms
<b>Load Regulation</b>	5% from no load to max load
<b>Waveform</b>	Sinusoidal (THD $<$ 2%)
<b>Frequency</b>	60 Hz $\pm$ 1 Hz
<b>Load Power Factor</b>	0.7 lead to 0.7 lag
<b>Efficiency</b>	$\geq$ 85% at nominal load
<b>Indicators</b>	
<b>DC input</b>	On when voltage present and within operating range Flashing when voltage present and over or under range.
<b>AC output</b>	ON when available Flashing when not available due to over temperature. OFF when overcurrent
<b>Protection</b>	
<b>Over-current</b>	Cut-off after 2 seconds, automatic reset after 30 seconds
<b>Input Overvoltage</b>	Shutdown above 90 Vdc
<b>Input Undervoltage</b>	Shutdown at 56 Vdc. Restart at 58 Vdc
<b>Overload</b>	Output thermally protected
<b>Input Reverse Polarity</b>	Protected
<b>Input Protection</b>	Fuse, surge suppression and filter.
<b>Isolation</b>	Transformer, floating output
<b>Environment</b>	
<b>Operating Temp.</b>	-40°F to 160°F (-40°C to 71°C)
<b>Storage Temp.</b>	-40°F to 185°F (-40°C to 85°C)
<b>Dimension</b>	10.5"D 7.25" L 5.38" H
<b>Weight</b>	10 Lbs (4.5 kg)

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