



9235 Roe St.
Pensacola, FL 32514
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PC5291-1 300va True Sine

INVERTER 300VA SINE WAVE

The model 300 is a true sine wave inverter operating from 74Vdc (60 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 ± 6 Vac from no load to 100% load and ± 1 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.

This new generation of inverters can be hookup in parallel for more power output.



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Specification

Efficiency of 85% minimum at rated load

Input voltage: 74Vdc nominal (56dc to 85vdc)
Output voltage: 117Vac for nominal loads of 300VA
Frequency: 60Hz \pm 0.05%
Waveform: true sine wave (THD < 2%)
Operating temperatures: -40°F to 130°F (-40°C to 54°C)

Overload capacity of three times its nominal power for 5 seconds
Natural convection cooling
Full 300-VA continuous output power at 77°F (25°C) without forced-air cooling
Capacity to operate high-current surge devices such as induction motors
Input reverse polarity protection
Line voltage regulation (56vdc to 85vdc)
Thermal cut out protection

Meets: IEC 60571
EMI Meets: IEC 801
Dimensions: 10,5 X 7,25 X 5,38H
Weight: 10 lbs (4,5 Kg)

