

# **Panama Colon Sine Wave Inverter**





## Overview

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What is a pure sine wave inverter?

Modern pure sine wave inverters are sophisticated electronic devices that play a crucial role in any solar power system. Their output power is much higher quality than modified sine wave inverters. The basic function of an inverter is to convert DC power output from the solar array into AC power output that we can use in our homes and businesses.

What is a modified sine wave inverter?

Modified sine wave inverters use simpler and cheaper electronics to produce a wave that is not quite a smooth sine wave. Pure sine wave inverters use more expensive electronics to generate a wave that is very close to a pure sine wave. The figure below compares outputs from a modified sine wave inverter and a pure sine wave inverter.

How do sine wave inverters work?

Sine wave inverters work in three stages: the oscillator stage, the booster or amplifier stage, and finally the transformer stage. The oscillator stage does what the title says it does: changes the DC current to an oscillating AC current. The oscillating current can be set to a particular frequency: for the United States the frequency is 60 Hz.

What are the different types of sine wave inverters?

Sine wave inverters are available in two basic types: pure sine wave inverters and modified sine wave inverters. The difference is basically in the electronics. Modified sine wave inverters use simpler and cheaper electronics to produce a wave that is not quite a smooth sine wave.



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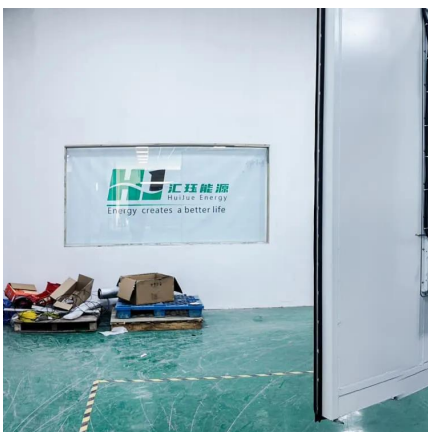


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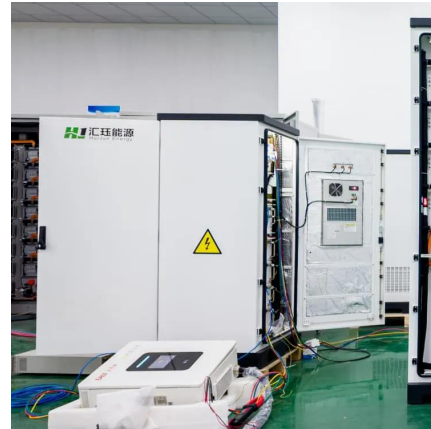


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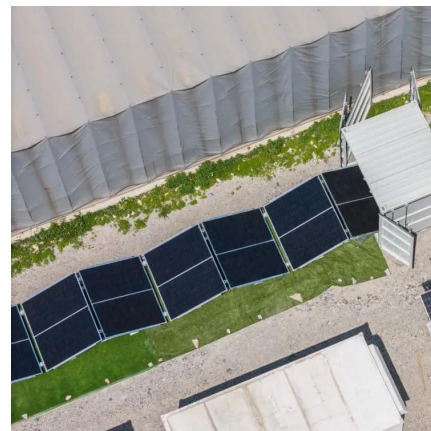
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