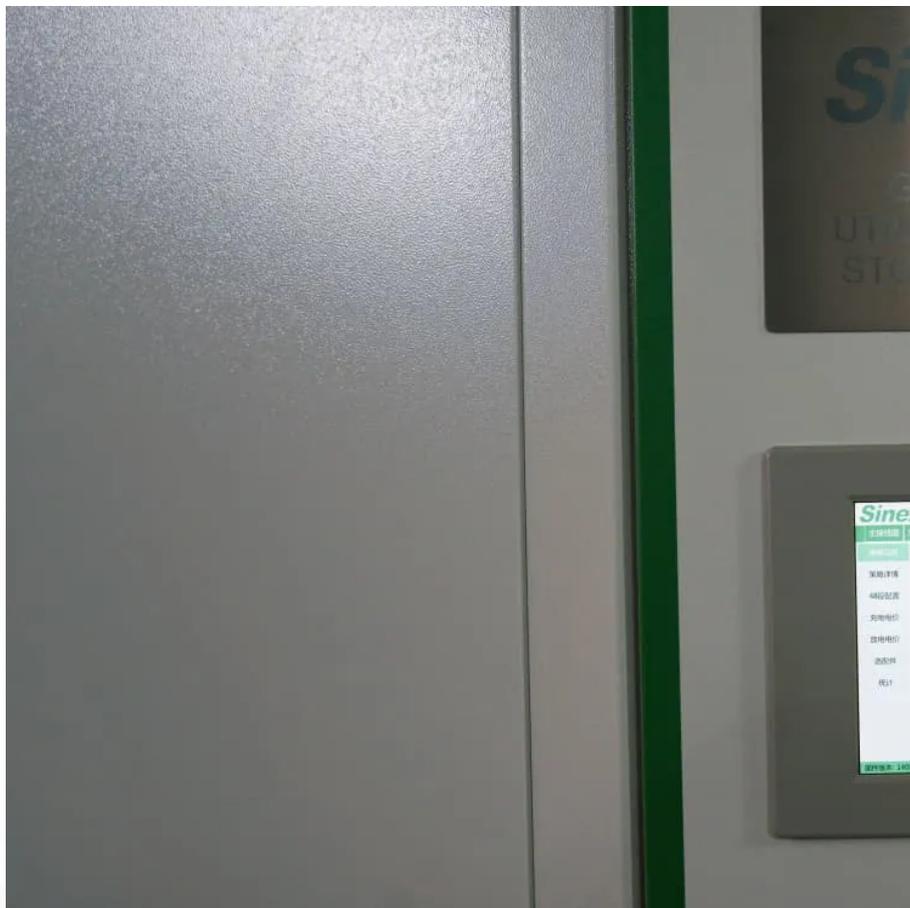


# **Convert the power frequency inverter to pure sine wave**





## Overview

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How does a pure sine wave inverter function?

A pure sine wave inverter works by first connecting to a DC power source, such as a battery or a DC power supply. Then, it converts the DC power into a high-frequency AC signal using Pulse Width Modulation (PWM).

Is a pure sine wave inverter better than a modified sine wave?

Both types of power inverter will provide power to AC appliances, however pure sine is high quality equal to (or better than) the power in your home, modified sine wave power is a simpler form of power and is adequate for simple electronics, but may damage more complex ones. Do you really need a pure sine wave inverter?

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When do I need a pure sine wave inverter generator?

A pure sine wave inverter generator is necessary when you need to power sensitive electronics. Some examples include running laptops, desktop computers, gaming consoles, audio equipment, or medical devices that require a stable and clean power supply.

Do you need a sine wave inverter?

When a pure sine wave inverter isn't necessary if you have electronic devices that use rectifiers to convert AC to DC, then you probably don't need a pure sine wave inverter. However, most electronic devices run just fine on a modified sine wave. How do you turn a square wave into a sine wave?



## Convert the power frequency inverter to pure sine wave

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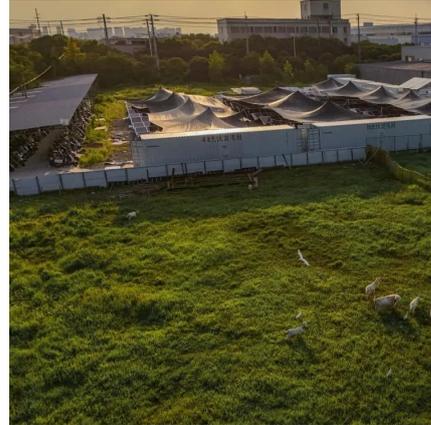
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