ContainerPower Energy Solutions

# Difference between sine wave inverter

## Overview

What is the difference between pure sine wave inverter and modified sine wave?

Pure sine wave inverters and modified sine wave inverters are two common types of inverters. They have some differences in working principle, performance characteristics, application field, waveform, and compatibility. Next, we will explain the differences between pure sine wave inverters and modified sine wave inverters in various aspects.

What is a pure sine wave inverter?

Pure sine wave inverter: It produces a smooth, continuous waveform that closely resembles the AC power provided by the utility grid. The waveform is a true sine wave with a smooth and rounded shape. Modified sine wave inverter: It produces a waveform that is more like a stepped approximation of a sine wave.

What does a sine wave inverter look like?

If you chart it out, it looks like a sine wave at first, but if you look closely, there are jagged stair steps in the waveform as the inverter crudely flips between polarities rather than the smooth wave seen above. Devices designed to run from an AC power source will all generally run on a modified sine wave.

Are modified sine wave inverters good?

Though modified sine wave inverters do not produce a perfect replica of AC true sine wave power, they do provide an affordable option that for many mobile power applications, is perfectly adequate. A Go Power modified sine wave inverter is a reliable and cost-effective mobile-power solution for most applications.

What is a modified sine inverter?

The major advantage of modified sine inverters is that they are less expensive

than pure sine models. Pure sine inverters are more sophisticated devices that can exactly replicate an AC sine wave from a DC power source. Because of their added complexity, they've historically cost a lot more than modified sine inverters.

How does a sine wave inverter work?

It can convert the power of a DC power supply (such as a battery or solar cell) into AC power to provide stable AC power for home, commercial, and industrial equipment. The output current waveform of a pure sine wave inverter is of high quality and can achieve low harmonic distortion when interfaced with a grid power supply.

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