



WALMER ENERGY

Original power inverter pure sine wave





Overview

What is a pure sine wave inverter?

A pure sine wave inverter is a device that converts DC power from a battery into AC power, allowing you to charge almost any household appliance or electronic device off-grid.

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.

Why do you need a sine wave inverter?

Most appliances in your home use AC power, so you need it to convert the DC power that solar panels produce to AC power. It also brings up the voltage to the grid level. A pure sine wave inverter also saves you money, as it's much more efficient than the older, jagged wave inverters.

How much does a sine wave inverter cost?

\$100-\$500 range: This is what you're likely to pay for most pure sine wave inverters on the market. These usually generate between 1,000 and 2,000 watts, so you can use one to power appliances in your off-grid cabin, RV, or boat. \$500 and above: This kind of money will get you a heavy-duty inverter with a power capacity from 3,000 to 12,000 watts.



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UseWattageContinuous Power and Surge PowerOutput VoltageOverload ProtectionSolar ChargingUSB PortLCD DisplaysHow you plan to use your pure sine wave inverter is one of the most important considerations in deciding what inverter to buy. First, does the inverter need to be portable - for example, for use on an RV or boat - or does it need to be hassle-free because it will be installed in a difficult to reach area as part of an off-grid home? Or if you are u See more on houseandbeyond 4.9/5Published: Aug 17, 2023Brand: Xantrex

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