

EK Electric Sine Wave Inverter Parameters





Overview

What is a pure sine wave inverter?

Pure sine wave inverters produce a smooth, periodic wave that closely resembles the AC power supplied by the grid. This type of inverter is ideal for sensitive electronics and appliances, including refrigerators, air conditioners, and computers. These devices are designed to operate with a pure sine wave, ensuring optimal performance and longevity.

How do high frequency inverters produce a sine wave output?

To produce a sine wave output, high-frequency inverters are used. These inverters use the pulse-width modification method: switching currents at high frequency, and for variable periods of time. For example, very narrow (short) pulses simulate a low voltage situation, and wide (long pulses) simulate high voltage.

What is the efficiency of a sine wave inverter?

The normal efficiency of high-quality pure sine wave inverters ranged from 90 percent to 95 percent, while the typical efficiency of low-quality modified sine wave inverters ranged from 75 percent to 85 percent.

What type of inverter is used to produce a sine wave?

Combination of pulses of different length and voltage results in a multi-stepped modified square wave, which closely matches the sine wave shape. The low frequency inverters typically operate at ~60 Hz frequency. To produce a sine wave output, high-frequency inverters are used.



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6.4. Inverters: principle of operation and parameters

To produce a sine wave output, high-frequency inverters are used. These inverters use the pulse-width modification method: switching currents at high frequency, and for variable periods of ...

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