

ContainerPower Energy Solutions

High-frequency inverter charging



Overview

What is a high frequency inverter?

The large majority of inverters available in the retail market are high frequency. They are typically less expensive, have smaller footprints, and have a lower tolerance for industrial loads. HF inverters have over twice the number of components and use multiple, smaller transformers.

What determines a high or low frequency inverter?

Size and tolerances of the transistors used in the inversion process, and the speed at which they operate determines the classification of high or low frequency. The large majority of inverters available in the retail market are high frequency.

What are low frequency inverters used for?

Their application is appropriate for a wide variety of uses like tool battery chargers, small appliances, A/V and computers, but have a decreased capacity for long term exposure to high surge loads like pumps, motors, and some high-torque tools. Our UL-listed, low frequency inverters and inverter/chargers are the pinnacle of electrical durability.

What is a Kisaie high frequency inverter-charger?

KISAE high frequency inverter-chargers are onboard power systems that offer the perfect balance of power for marine, RV / caravans, van conversions, and long haul trucks.

How does a bidirectional low frequency inverter work?

Bidirectional Low Frequency Inverter In the LF inverter, the battery voltage is first chopped with the full bridge (using high-frequency PWM, generally 3 kHz to 20 kHz) to an AC waveform. The iron core transformer then boosts the 12-V chopped waveform to 220-V RMS output waveform at 50 Hz.

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