

High voltage inverter function





Overview

How does a high-voltage full bridge inverter work?

A high-voltage full bridge inverter works by converting the DC voltage V_1 to a high-frequency square wave AC voltage. This AC voltage is then supplied to a 20kHz frequency high-voltage transformer T1, which, after the boost rectifier, provides power to the load. The inverter high-voltage full bridge drives the routing components and the IGBT power modules.

What is a high efficiency power inverter?

High efficiency power inverters which use a modified sine wave to power 230V mains equipment from a 24V battery • Designed to work with most modern day lorries or marine power systems that run of a 24V alternator • Over 85% efficiency • Soft start minimise.

What is the main circuit of an inverter?

The main circuit of an inverter includes an inverter DC power supply, IGBT bridge inverter, protection circuits, high frequency high voltage transformers, and high frequency high voltage silicon stack (Rectifier).

What is a high frequency inverter?

A high frequency inverter is a type of UPS (Uninterruptible Power Supply) that uses a microprocessor as its process control center. It employs software programming to control its operation, unlike traditional analog circuits.



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Functions and differences between high voltage inverter and low voltage

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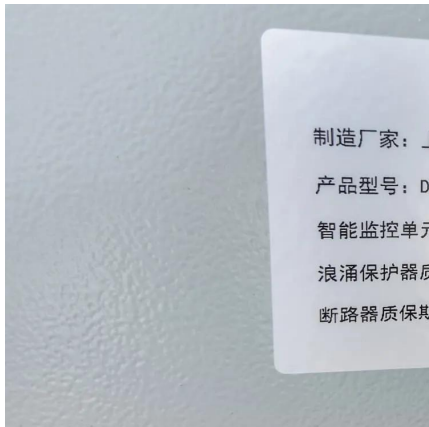
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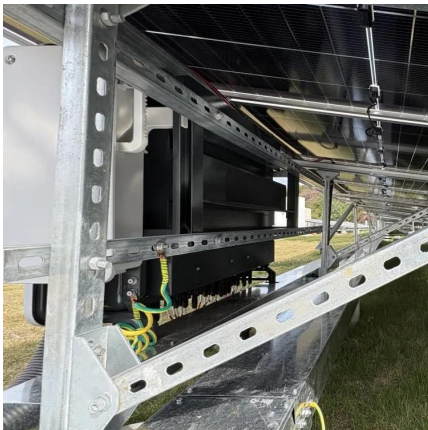
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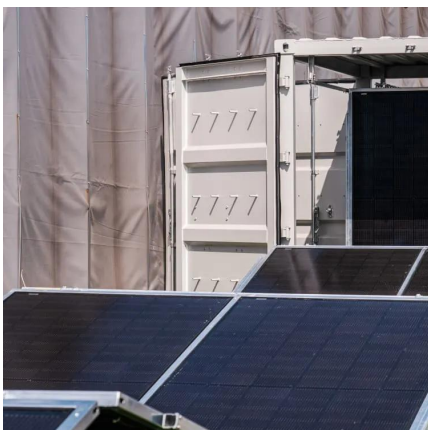


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