

The role of ultra-high power inverter





Overview

How can a high voltage inverter improve EV performance?

A better approach is to increase efficiency and decrease weight which extends the range of the EV and potentially reduces vehicle cost and running expenses. A significant contributor to achieving this is the inclusion of enhanced control, high voltage inverter modules in the vehicle. *
Corresponding author.

Why should you choose a multilevel inverter?

Improved Efficiency – Due to lower switching losses, multilevel inverters exhibit higher efficiency, making them suitable for high-power applications.
Scalability for High Voltage Applications – These inverters are capable of operating at medium and high voltages without requiring bulky transformers.

Who develops high voltage inverter systems for electric vehicles?

The vehicle manufactures and automotive tier 1 suppliers develop inverter systems for electric vehicles. Discussions were held with their design and research teams during direct meetings to understand future developments. Through these discussions, along with our own research, there are some clear high voltage inverter trends in the EV market. 3.

Are Infineon IGBTs compatible with empower inverters?

market. Infineon's industry-leading discrete IGBTs are compatible with Empower's latest generation inverter in terms of packaging. Together with the high current density, ultra-low saturation voltage drop and superior parallel performance, Discrete products has increased power density by more than 20%.



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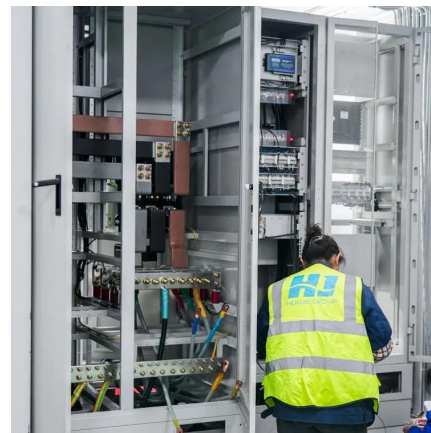
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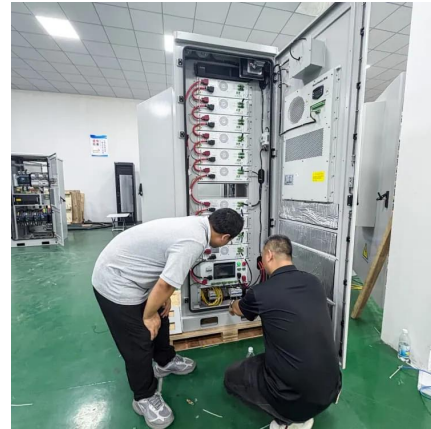




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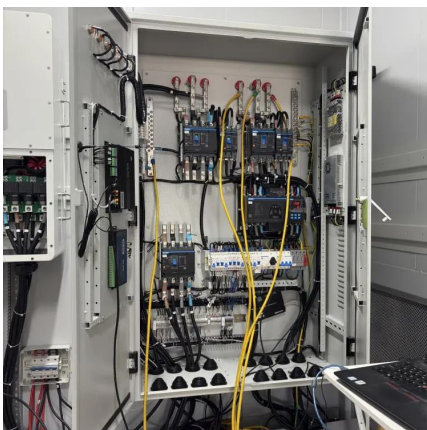
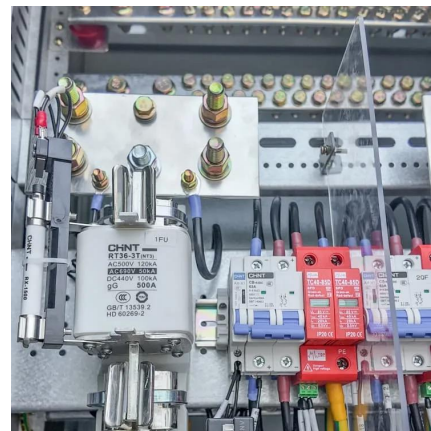
The target is to increase power density of propulsion units. The most straightforward way to achieve higher power density is to use high-speed motors. Fig. 2 describes a simplified ...

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