

What is a high power density inverter?

Weight and power density - The wide band-gap switch and powertrain integration are the key technologies enabling high-power density inverter design. The inverter power density target of OEMs continues to, for example, 100 kW/L in the US market by 2025. The use of SiC enables 800-V DC bus voltage, reduce the current rating and wiring harness.

What is a triple two-level inverter?

To address the above issue, a triple two-level inverter is proposed in this paper. The proposed inverter adopts a switched-capacitor boost circuit to boost the AC output voltage and to generate a multi-level voltage. Simultaneously, a three-phase full-bridge circuit is assigned to convert the DC voltage into AC voltage.

Can a triple two-level inverter boost AC voltage?

Currently, many inverters employ inductors to boost the AC voltage. However, this leads to increased current distortion and limits the voltage boosting capability of the inverter. To address the above issue, a triple two-level inverter is proposed in this paper.

How does an inverter generate a multi-level voltage?

The proposed inverter adopts a switched-capacitor boost circuit to boost the AC output voltage and to generate a multi-level voltage. Simultaneously, a three-phase full-bridge circuit is assigned to convert the DC voltage into AC voltage. In addition, a novel space vector modulation strategy is introduced to achieve capacitor voltage self-balance.

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Traction Inverter Overview EV/HEV Traction inverter converts energy stored in a battery to instantaneous multiphase AC power for a traction drive.

Traditional two-level inverters are well established but suffer from major drawbacks such as high switching losses and poor harmonic performance, particularly in high-power and low-voltage ...

This article presents a new transformerless switched-capacitor (SC) based five-level grid-connected inverter



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with inherent voltage-boosting capability. The proposed topology achieves a ...

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