

# Siamese high power inverter

What is the power density of SiC-based high power density inverter?

Abstract: This paper introduces the development and experimental performance of SiC-Based high power density inverter. The Power density of the developed inverter is about 70kW/liter in volumetric, 50kW/kg in gravimetric. The inverter is forced air cooled 2-level voltage source inverter.

What is a high-power inverter?

It thoroughly utilizes the high-frequency and low-loss features of the SiC devices and validates the characteristics of SiC MOSFETs and IGBTs under the hybrid application of SiC&Si through simulations and experimentations. High-power inverters have been commonly used as power conversion devices in the fields of transportation and energy.

What is the power density of an inverter?

The Power density of the developed inverter is about 70kW/liter in volumetric, 50kW/kg in gravimetric. The inverter is forced air cooled 2-level voltage source inverter. In order to achieve higher power density than conventional inverters, we need to reduce losses of inverters or improve cooling systems of inverters.

How a high power density inverter is developed?

We also developed gate driver to reduce switching losses and switching delay time. The prototype high power density inverter is developed with the developed power module and the proposed gate driver. The volume of the prototype inverter is about 0.5 liter and the weight is about 660g.

What are the advantages of silicon carbide (SiC) devices in inverters?

Silicon carbide (SiC) devices have excellent performance, such as higher switching frequency and lower switching loss compared with traditional silicon (Si) devices. The application of SiC devices in inverters can achieve higher efficiency and power density.

What is the application of sic devices in inverters?

The application of SiC devices in inverters can achieve higher efficiency and power density. In recent years, the production process of SiC devices has become more mature, but the cost is still several times that of traditional Si devices.

Abstract: This paper introduces the comprehensive evaluation results of SiC-Based high power density inverter. The power density of the developed inverter is about 70kW/liter in volumetric, ...

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Multi-level inverters became very popular in the last decade. Typically, they are used in high power and high voltage applications such as converters for ships, electric trains, and vehicles, reactive power compensators, wind turbine converters, PV inverters, active filters, UPS, and High Voltage DC (HVDC) systems (Abu-Rub et al., 2010, Rodriguez et al., 2007).

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dell'impianto. Tutte le funzioni e i componenti sono sviluppati al fine di mantenere un peso ridotto, limitare al minimo le potenziali cause di errore e aumentare al massimo il grado di rendimento. Tecnologie affermate come il sistema di raffreddamento ...

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