

15kw inverter silicon carbide





Overview

What is a silicon carbide inverter?

Our Silicon Carbide inverter has the highest frequency switching rate that is currently possible and is 800V compatible. This means faster power transfer and a lighter system compared to 400V inverters. This allows OEMs to develop vehicles with greater ranges, faster charging times and better acceleration, at a comparable cost.

What is a silicon carbide (SiC) inverter?

To address these challenges, Motion Applied has developed a next generation, 800V Silicon Carbide (SiC) inverter platform. 800V offers faster vehicle charging speeds and Silicon Carbide technology provides higher powertrain system efficiency and greater vehicle range and performance.

Why should you choose motion applied's 800V silicon carbide inverter?

In summary, Motion Applied's 800V Silicon Carbide inverter has the following benefits: Flexibility: Clear upgrade path from 400V infrastructure to 800V to maximise existing investments and spread cost across a wider set of vehicles. Ability to offer a caseless variant for maximum integration flexibility.

What is motion applied's new inverter?

Motion Applied's new inverter uses Silicon Carbide technology, which enables a significant increase in switching frequency. By achieving class-leading switching frequencies, our inverter allows the use of a more efficient and lightweight drivetrain; including inverter, motor and battery systems.



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Silicon Carbide Inverter Solutions Enable ...

Aug 7, 2025 · Learn how SiC inverter solutions offer a modular, functionally safe platform with certified components, accelerating development and ...

Silicon Carbide (SiC) Power Modules

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Silicon Carbide (SiC) Power Modules , Wolfspeed

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15KW Pure sine wave inverter for off grid solar system 15KW

8KW 10KW 12KW 15KW 20KW 30KW 40KW IGBT power inverter charger Our HI series IGBT Power Inverter Charger/Off-Grid Inverter is the ultimate solution for reliable and efficient power ...

70 kHz, 15 kW silicon-carbide MOSFET inverter for industrial ...

In this paper, a 15-kW, 70-kHz SiC MOSFET inverter prototype is constructed to evaluate the performance of the SiC MOSFETs. Power loss breakdown is also conducted from the ...

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Wide-bandgap SiC semiconductors are used to control and switch high-power electrical devices. They offer several advantages over traditional silicon devices, including higher operating ...

IPG5 800V Silicon Carbide Integrated Inverter

IPG5 800V Silicon Carbide Integrated Inverter 800V Silicon Carbide Inverter for faster charging, higher efficiency, longer range. The hybrid and electric vehicle (EV) market is both growing ...

Silicon Carbide Inverter Solutions Enable Functionally Safe ...

Aug 7, 2025 · Learn how SiC inverter solutions offer a modular, functionally safe platform with certified components, accelerating development and compliance with ISO 26262 for next-gen ...

Silicon Carbide Inverter

Dec 2, 2025 · Developed and produced in-house, this silicon carbide (SiC) inverter delivers highly efficient power usage. Its design is dedicated to commercial vehicle demands while benefiting ...

15kW Bidirectional Converter 610Vdc / 28Vdc

Aug 20, 2025 · 15kW Bidirectional Converter 610Vdc / 28Vdc The 1066000G1 is a silicon carbide (SiC) based High Efficiency DC to DC Converter. The design utilizes GE's 1200V SiC ...



Gate Driver Design - 15kW Three-phase, Three-level AFE ...

Oct 21, 2024 · The use of Silicon Carbide (SiC) MOSFETs benefit in higher switching frequency, higher operation voltage, better thermal conductivity and higher operation temperature, etc.

Silicon Carbide Inverters: Technology, Advantages, and ...

Nov 24, 2025 · Learn how silicon carbide (SiC) inverters outperform traditional silicon designs with higher efficiency, faster switching, and superior thermal performance. Discover their growing ...

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