Silicon Carbide Inverter Manufacturer



What is a silicon carbide inverter?

Our 800-Volt Silicon Carbide Inverter for Electrified Vehicles uses an innovative, double-side cooled silicon carbide (SiC) based power switch that delivers the higher power densities and efficiencies needed to extend battery range and performance, and reduce costs.

Does Denso have a silicon carbide inverter?

KARIYA, Japan (Mar. 31, 2023) - DENSO CORPORATION, a leading mobility supplier, announced it has developed its first-ever inverter with silicon carbide (SiC) semiconductors.

Why is silicon carbide a good choice for next-generation power electronics?

Compared to conventional silicon-based chips, silicon carbide semiconductors provide: superior electrical conductivity, faster switching speeds, and higher overall efficiency, resulting in reduced energy loss and lower cooling requirements. This makes them a preferred choice for next-generation power electronics.

What is silicon carbide MOSFET performance inverter platform (sic-pp)?

Compactsilicon carbide MOSFET performance inverter platform (SiC-PP). Lighter,more efficient,and more compact. Thanks to the advanced architecture of the SiC-PP, it is possible to meet a wide range of performance and use cases, from ground transportation to aviation applications.

Do sic semiconductor inverters reduce power loss?

A cruising test conducted under specific conditions by BEV using SiC semiconductor inverters demonstrated inverters with SiC power semiconductor reduce power loss less than half of ones with Si semiconductor. As a result, the energy efficiency of BEVs is improved and cruising range is extended.

What is silicon carbide & discrete power Die?

Our solutions, including silicon carbide material, Power Modules, Discrete Power Devices and Power Die Products, are helping make cars, planes, renewables, race teams, cities, and everything in between, better, faster, greener, cooler, and more sustainable for billions to live better lives.

Smaller, more efficient products to ramp-up in volumes through 2025 across 750V and 1200V classes, will bring the advantages of silicon carbide beyond premium models to ...

Designed for hybrid and electric vehicles in automotive, marine, and off-highway applications, this cutting-edge inverter combines advanced technologies with hardware and software necessary ...

To help enable zero emission driving, Semikron Danfoss provides cutting-edge power modules integrated into the drivetrain, enabling automotive manufacturers worldwide to deliver electric ...

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