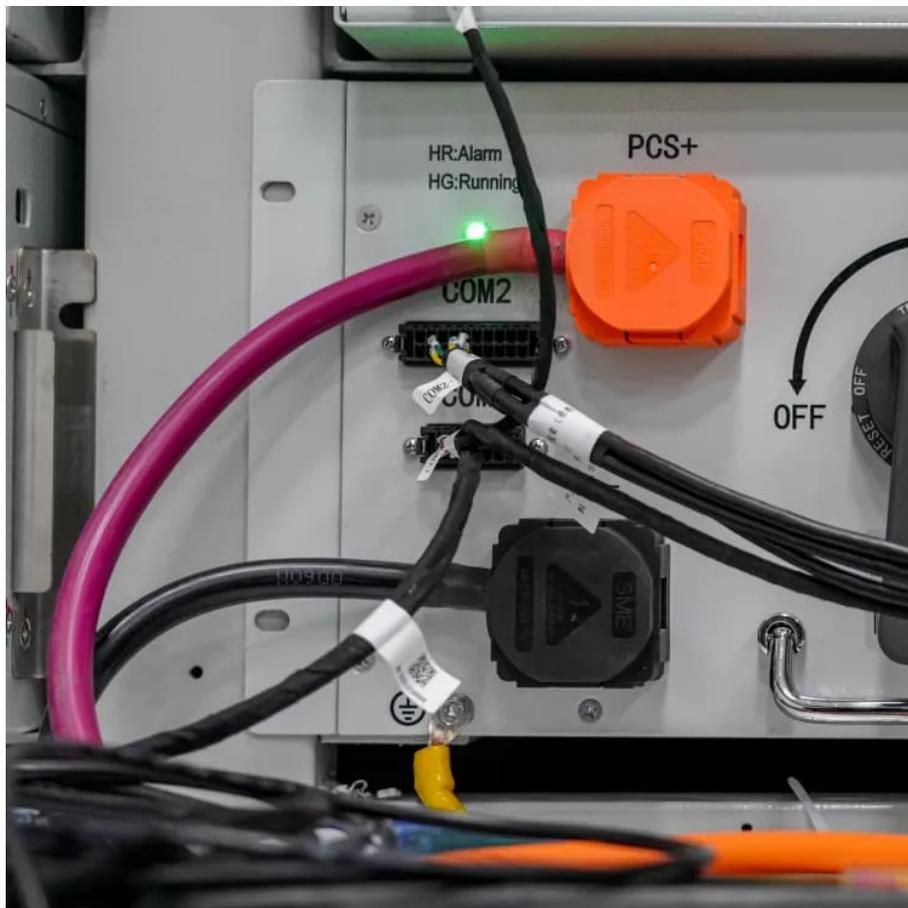


PDEOZE PowerContainer

Inverter high voltage silicon replacement



Overview

After decades of domination by silicon, silicon carbide (SiC) is replacing it as the gold standard in high-voltage power electronics, including in traction inverters at the heart of electric vehicles (EVs).

Inverter high voltage silicon replacement

Key properties for high-voltage applications include high-voltage electrical insulation and arc track resistance as well as hydrophobicity. Our compounding expertise makes the difference here.

Because the SiC gate driver is already integrated with the power module, users can start their projects with a solution that is already validated and optimized for fast switching ...

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Infineon offers the best scalability in market between IGBT and SiC, allowing customers to freely choose the technology for their needs, reduce platform migration effort while achieve fast time ...

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The VE-Trac power modules, available with IGBT silicon, are the components that convert direct current (DC) battery power in electric vehicles (EVs) or hybrid electric vehicles (HEV).

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This article investigates the challenges of designing 6.78 MHz multi-kilowatt H-bridge inverters with high-voltage silicon carbide (SiC) and gallium nitride (GaN) devices, while

comparing their ...

SiC is turned off later and T_{off_delay} is set to minimize turn-off losses (IGBT commuting in ZVS).

Automotive supplier Schaeffler has started mass production of a new high-voltage inverter brick equipped with ROHM's silicon-carbide (SiC) MOSFET bare chips as part of its strategic

ROHM Semiconductor announced that its SiC MOSFET bare chips are now integrated in Schaeffler's new high-voltage inverter brick, which has entered mass production ...

Viper is the first 800-Volt inverter to use an innovative, double-side cooled silicon carbide (SiC)-based power switch that delivers the higher power densities and efficiencies needed to extend ...

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