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Nov 18, 2025&ensp;&#0183;&ensp;Wolfspeed Inc of Durham, NC, USA -- which makes silicon carbide (SiC) materials and power semiconductor devices -- has launched 1200V SiC six-pack power ...

Feb 17, 2021&ensp;&#0183;&ensp;Today, silicon insulated-gate bipolar transistors (Si IGBTs) dominate the medium power range, including electric vehicle inverters. ...

Nov 13, 2025&ensp;&#0183;&ensp;Developed and produced in-house, this silicon carbide (SiC) inverter delivers highly efficient power usage. Its design is dedicated to ...

800-Volt 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 ...

Jun 18, 2025&ensp;&#0183;&ensp;This article provides a comprehensive review of Silicon Carbide (SiC) based inverters designed for High-Speed (HS) drive applications, which require higher output ...

Aug 7, 2025&ensp;&#0183;&ensp;Learn how SiC inverter solutions offer a modular, functionally safe platform with certified components, accelerating development and ...

Mar 28, 2023&ensp;&#0183;&ensp;Highly compact silicon carbide MOSFET inverter. With the design study of the 320 kVA FullSiC inverter, BorgWarner has once again pushed the envelope between performance ...

The Silicon Carbide (SiC) inverter independently developed by Jing-Jin Electric adopts advanced third-generation wide-band gap semiconductor silicon carbide technology, which has the ...

Apr 21, 2025&ensp;&#0183;&ensp;A review paper on Silicon carbide converter designs using coupled inductors provides a comprehensive analysis of the advancements in SiC-based power converter ...

Nov 13, 2025&ensp;&#0183;&ensp;Developed and produced in-house, this silicon carbide (SiC) inverter delivers highly efficient power usage. Its design is dedicated to commercial vehicle demands while ...

Oct 31, 2023&ensp;&#0183;&ensp;Silicon carbide (SiC) technology improves solar inverter system

efficiency. Explore the benefits of SiC in three solar string inverter ...

Feb 14, 2024&ensp;&#0183;&ensp;Tesla became the first company to use a SiC silicon carbide semiconductor field-effect transistor (MOSFET) in its own inverter design, ...

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