

Title: Production of ultra-high voltage inverters

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Will a new high-voltage inverter brick be made by a Chinese automaker?

ROHM Semiconductor, in collaboration with German automotive giant Schaeffler, has begun mass production of a next-generation high-voltage inverter brick built with ROHM's silicon carbide (SiC) MOSFET bare chips. The product, developed as part of their strategic partnership, is already slated for integration by a leading Chinese automaker.

Who develops high voltage inverter systems for electric vehicles?

The vehicle manufactures and automotive tier 1 suppliers develop inverter systems for electric vehicles. Discussions were held with their design and research teams during direct meetings to understand future developments. Through these discussions, along with our own research, there are some clear high voltage inverter trends in the EV market. 3.

Why is Schaeffler launching a high voltage inverter brick?

With the launch of volume production of the high voltage inverter brick in Tianjin, China, Schaeffler has reached an important milestone in its electrification strategy. This first volume production is for a leading Chinese car manufacturer that is going to equip its new electric vehicle models with ultra-modern inverter brick technology.

How can a high voltage inverter improve EV performance?

A better approach is to increase efficiency and decrease weight which extends the range of the EV and potentially reduces vehicle cost and running expenses. A significant contributor to achieving this is the inclusion of enhanced control, high voltage inverter modules in the vehicle. *Corresponding author.

Explore the structure, operation, and real-world retrofit of high-voltage inverters in power plants. Improve energy efficiency, reduce costs, and boost reliability.

The future development of high voltage power inverters is poised for continued innovation and advancement, driven by emerging technologies and evolving market demands.

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Infineon's industry-leading discrete IGBTs are compatible with Empower's latest generation inverter in terms of packaging. Together with the high current density, ultra-low saturation ...

Schaeffler has started volume production of its high-voltage inverter brick at its Tianjin site in China, supplying a leading domestic carmaker as part of its push to expand in ...

Explore high voltage inverters, their benefits, applications, and how to protect them for optimal performance.

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