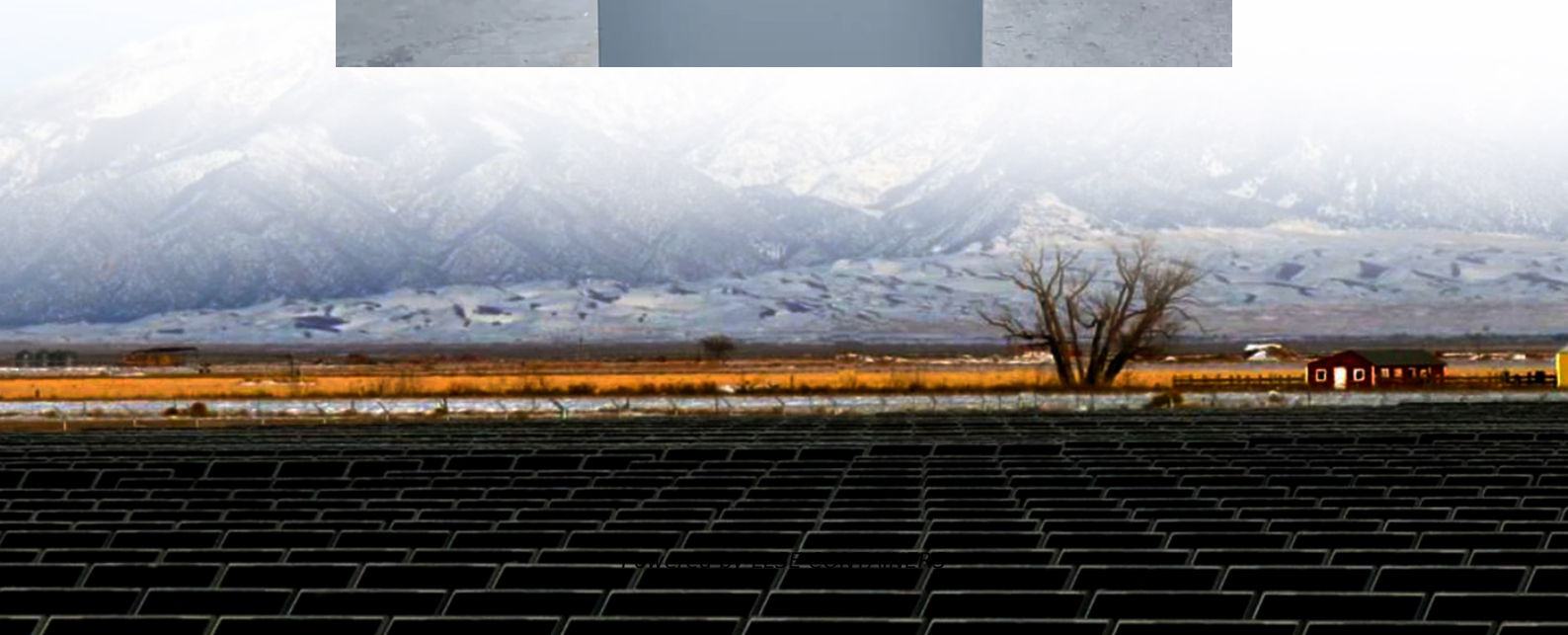


High voltage electric shock inverter





Overview

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.

Which EV traction inverter is best?

For EV traction inverter, more efficiency and right performance are key. While IGBT is ideal for cost-optimized drive-train, SiC demonstrates higher efficiency under WLTP partial load scenario. Infineon offers the best scalability in market between IGBT and SiC, allowing customers to freely choose the technology for their needs.

How traction inverter system is tested?

The traction inverter system was tested at the rated voltage and power levels with an inductive load. The UCC5880-Q1 gate driver's drive strength was varied to study its impact on the system's efficiency. The scope plots for the SiC MOSFET's drain-source voltages (V_{ds}) and phase currents are shown in the following figures.

What are the performance characteristics of Schaeffler inverter bricks?

The performance characteristics of the inverter brick now being produced are impressive: At customer's request, Schaeffler increased the output of the block by increasing the maximum possible battery voltage to much more than the usual 800 V - and with RMS currents of up to 650 A, which turn the sub-module into a compact power pack.



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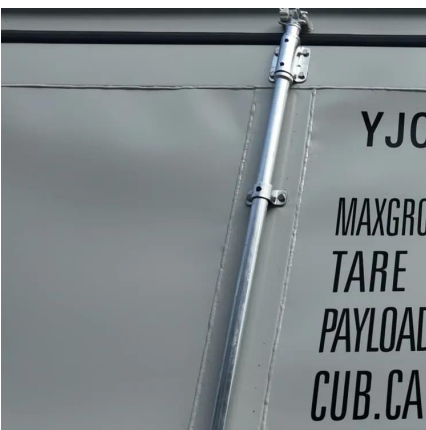


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High-voltage inverter , EV traction inverter , Eaton

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