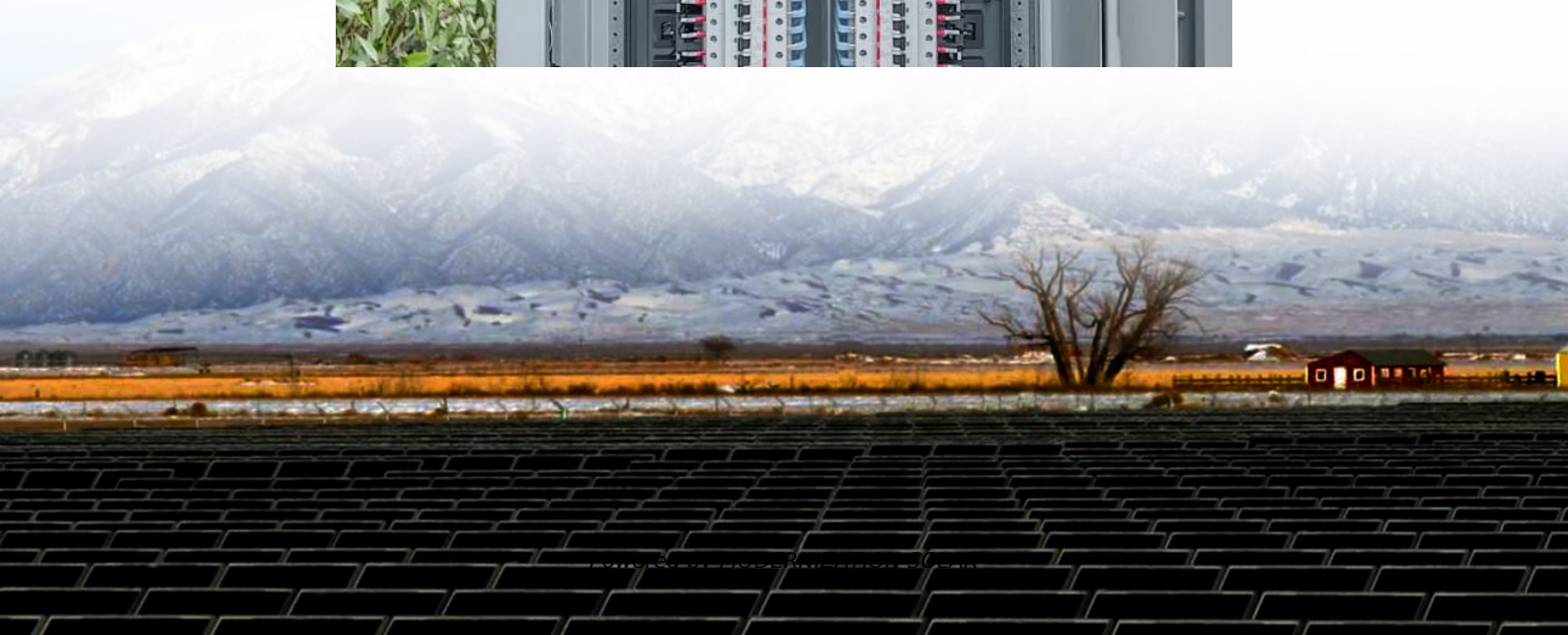


Energy Storage Inverter Silicon Carbide





Overview

What is silicon carbide (SiC) technology?

Silicon Carbide (SiC) technology has transformed the power industry in many applications, including energy harvesting (solar, wind, water) and in turn, Energy Storage Systems (ESSs).

Which solar energy storage systems can benefit from Wolfspeed silicon carbide MOSFETs?

Solar photovoltaic and wind energy storage systems have multiple power stages that can benefit from Wolfspeed Silicon Carbide MOSFETs, Schottky diodes and power modules, including the Wolfspeed WolfPACK™ family of devices.

Can silicon carbide improve the performance of PV inverters?

Nowadays, silicon (Si)-based devices, including Si insulated-gate bipolar transistor (IGBT) and Si diode, are commonly used in inverters. However, over the past four decades, the performance of Si devices has reached its boundary . Recently, silicon carbide (SiC)-based devices are used to improve the performance of PV inverters .

Are silicon carbide inverters the foundation of next-generation high-performance converters?

Silicon carbide (SiC) devices can break through the technical limitations of silicon (Si) devices. Thus, SiC devices are considered as the foundations of next-generation high-performance converters. Aimed at the photovoltaic (PV) power system, this study surveys state-of-the-art of PV inverters.



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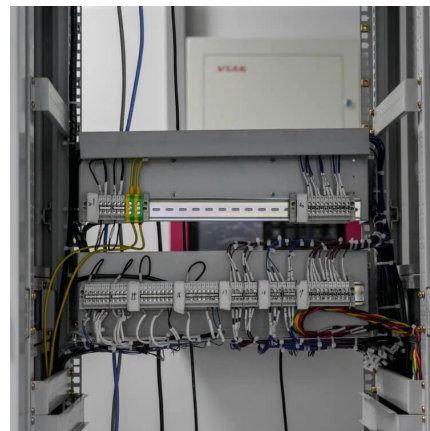
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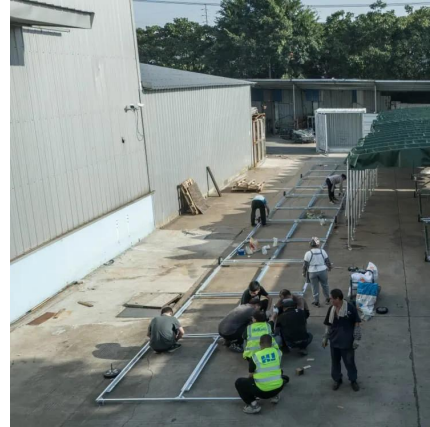
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