

Do solar inverter companies produce IGBT





Overview

What is IGBT in solar inverter?

In solar inverter applications, IGBTs (Insulated-Gate Bipolar Transistors) offer benefits compared to other types of power devices, such as high-current-carrying capability, gate control using voltage instead of current, and the ability to match the co-pack diode with the IGBT.

What is IGBT in a joeyoung inverter?

The inverter's IGBT is like its heart. It handles power conversion and energy transfer inside the inverter. JOEYOUNG uses high-quality IGBT modules in all their inverters, like the 3000W solar inverter and the 12V 2000W pure sine wave inverter.

How do IGBTs affect inverter design?

The availability of IGBTs has a major influence on inverter design, the power of which ranges from 70 to 185 kW and has to support a typical lifetime of 100,000 km or 15 years. One such design uses half-bridge modules, with a focus on the placement and orientation within the inverter to provide more thermal management to increase the power density.

How does an IGBT work?

It's important to note that IGBTs have a small voltage drop, like a diode, usually around 2V. This drop increases slightly as the current rises. Additionally, the IGBT allows reverse current flow using a freewheeling diode, which is placed between the collector and emitter terminals.



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