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# Porto Novo Solar Inverter IGBT Module Factory

Are insulated-gate bipolar transistors a good choice for solar inverter applications?  
For solar inverter applications, it is well known that insulated-gate bipolar transistors (IGBTs) offer benefits compared to other types of power devices, like 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 an IGBT-inverter?

An IGBT-inverter is an inverter built with IGBT power modules to ensure high voltage/power switching functions. The IGBT power module is considered the 'heart' of the electrified drive train. Similar to a human heart distributing energy throughout our bodies, the power module functions as a human heart in the electric drive train for EV/HEVs.

What is an IGBT power module?

An IGBT is a power semiconductor die and is the short form of insulated-gate bipolar transistor. An IGBT power module is the assembly and physical packaging of several IGBT power semiconductor dies in one package. The dies are normally connected in a selected electrical configuration such as half-bridge, 3-level, dual, chopper, booster, etc.

What is IGBT in a solar inverter?

IGBT. A typical implementation of a solar inverter employs a full-bridge topology using four switches (Fig. 2). Here, Q1 and Q3 are designated as high-side IGBTs while Q2 and Q4 are designated as low-side IGBTs.

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A list of IGBT module models ideal for use with solar inverters will be displayed. The product data sheets for each model type are ...

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