

## Kongres Container

# Power module in the inverter



## Overview

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What is a power inverter module?

They are notably ideally suited for modular power converter topologies. The power inverter modules are designed for use inside research laboratories, in order to facilitate the rapid prototyping and validation of various converter control techniques.

What types of inverter modules are available?

Inverter modules are available using either IGBT or MOSFET semiconductors. Grid-connected inverters and motor drive applications, up to 8kW per module. Fast-switching and medium-frequency applications, up to 200kHz. 120VAC, teaching and general-purpose applications, up to 6kW per module.

Which power inverter modules are best assembled?

Imperix power inverter modules are best assembled within rack-mountable frames or enclosures. This guarantees the highest flexibility, thanks to the modular nature of the power modules. For those who appreciate the corresponding ease of use, imperix can provide pre-assembled chassis with power supplies and various other features.

What is an IGBT-inverter?

An IGBT-inverter is an inverter build 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 are advanced power module products?

Advanced power module products, including IGBT, MOSFET, SiC, Si/SiC Hybrid, Diode, SiC Diode, and Intelligent Power Modules (IPMs). IGBT Modules are used in traction and in the DC-AC stages of solar inverters, energy storage systems,

uninterruptible power supplies and motor drives.

What is a power inverter used for?

An inverter enables power conversion from a source to a load. The inverter is primarily used for power conversion for two purposes: Power-to-power: Electricity conversion for transmission, distribution or energy storage.

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