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## Inverter voltage module

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.

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 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.

What is a power module?

Our power modules are designed for both teaching and research applications within power electronics laboratories. They can ideally support control software testing for industrial power inverters, or simply illustrate basic converter control techniques within an educational context.

The inverter can consist of power semiconductors such as IGBTs, FETs, MOSFETs, SJ MOSFETs, SiC MOSFETs and GaN HEMTs to name a few. An IGBT-inverter is an inverter ...

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Learn about Mitsubishi's XB-Series HV-IGBT modules. They offer lower switching losses and enhanced reliability through 7th-gen Si IGBT and RFC diodes, improving inverter ...

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Imperix power modules are building blocks that help power electronic engineers implement inverter prototypes and all sorts of power converter topologies.

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The inverter modules are DC supplied and have built-in capacitors for smoothing the DC voltage. The electrical connection to the common DC bus is fuse protected. An optional ...

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