

# Inverter main power module





## 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 are the parts of a power inverter?

It consists of the following two parts: Fuse: The fuse automatically opens if the current is too high, protecting the inverter from damage. DC disconnect switch: The DC disconnect is the safety valve of the system and ensures safe operation of the drive during maintenance. 2. MPPT Controller



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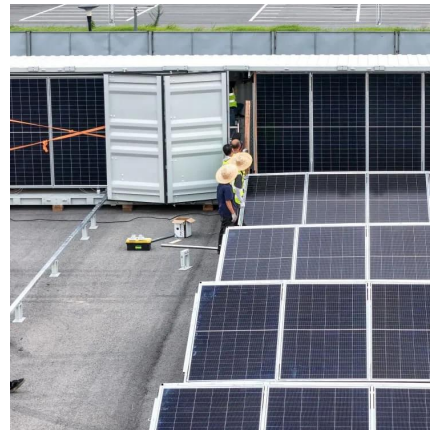


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