



WALMER ENERGY

# Inverter and power module





## Overview

---

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 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.



## Inverter and power module

---

### Intelligent Power Module (IPM) Devices

STPOWER modules for all types of power switching applications: SLLIMM IPMs are highly integrated and compact power molded modules that ...

---

### Intelligent Power Module (IPM) Devices

STPOWER modules for all types of power switching applications: SLLIMM IPMs are highly integrated and compact power molded modules that combine intelligent driving and power ...

---

### Power modules: driving efficiency in inverter ...

4 days ago · The PM6.1 is the newest member of the power module portfolio. It is fully designed and produced by Bosch following the local-for-local ...

---

### Power inverter modules

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

---

### PIM Hardware Solutions , NXP Semiconductors

4 days ago · NXP Power Inverter Module (PIM) solutions were developed to provide an easy-to-use platform for evaluating NXP products. The ...

---

### 3-phase Inverter Power Module

INTRODUCTION This application note provides practical guidelines for designing with the Motion SPM 5 Series power modules. This series of Intelligent Power Modules (IPM) for 3-phase ...

---

### PIM Hardware Solutions , NXP Semiconductors

4 days ago · NXP Power Inverter Module (PIM) solutions were developed to provide an easy-to-use platform for evaluating NXP products. The platforms are configured for longer battery life, ...

---

### What is 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 ...

---

### The Intelligent Power Module Concept for Motor Drive ...

Nov 21, 2025 · The Intelligent Power Module Concept for Motor Drive Inverters Designers of inverters for small AC motors in consumer and general purpose industrial applications are ...

---

### Power modules: driving efficiency in inverter solutions

4 days ago · The PM6.1 is the newest member of the power module portfolio. It is fully designed and produced by Bosch following the local-for-local strategy and addressing the special ...

---



## How to Choose the Best Inverter Module for Your Power ...

4 days ago · When selecting the best inverter module for your solar or backup power system, prioritize efficiency, compatibility with your DC source, and waveform output--pure sine wave ...

---

## Contact Us

For technical specifications, project proposals, or partnership inquiries, please visit:

<https://walmerceltic.co.za>

**Scan QR Code for More Information**



<https://walmerceltic.co.za>