

# **Intelligent integrated high-power inverter**





## Overview

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What is the new high power intelligent power module family?

Find out more about the new high power intelligent power module family. The STPOWER SLLIMM (small low-loss intelligent molded module) high power is the new family of compact, high efficiency, dual-in-line intelligent power modules, with optional extra features, offering an all-in-one solution that increases efficiency and reliability.

What is an integrated power module?

An alternative solution to these problems is to use an integrated power module that contains all the required power devices along with matched gate drivers and protective functions integrated with low-voltage and high-voltage ICs (LVIC & HVIC).

How do smart inverters help a grid?

For example, if the grid frequency drops, a smart inverter can reduce its power output to help stabilize the grid. Grid Support Services: Smart inverters can provide ancillary services such as reactive power support, which helps to regulate voltage levels and maintain the quality of the power supply.

Can smart inverters make solar and wind power more powerful?

This technology can make solar and wind power generation more powerful and stable. Smart inverters are like super tools that can make solar panels and wind turbines work better, and make the entire power grid more solid and less prone to problems. In the future, we will use more clean energy, and smart inverters will become more important.

What are intelligent inverters & how do they work?

Intelligent inverters, equipped with advanced communication and control capabilities, are transforming the way renewable energy is integrated into the grid. These devices can communicate with the grid, adjust their output in real-



time, and provide grid services such as voltage and frequency regulation.

Why should you choose a hybrid solar inverter?

This feature ensures a more stable and reliable power supply, reducing dependence on the grid and minimizing energy costs. Additionally, hybrid solar inverters can provide backup power during power outages, enhancing the overall resiliency of the energy system.



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51.2V 150AH, 7.68KWH

### The Power Of Smart Technology: The Intelligent Hybrid Inverter

The intelligent hybrid inverter is a cutting-edge device that combines the functions of a traditional solar inverter with a battery storage system. This integration enables it to ...

[Product Information](#)

### TI unveils industry's first GaN IPM to enable smaller, more energy

News highlights: 650V intelligent power module (IPM) enables more than 99% inverter efficiency for appliances and HVAC systems by integrating TI's gallium nitride (GaN) ...

[Product Information](#)



### A review on topology and control strategies of high-power inverters ...

Power electronic converters, bolstered by advancements in control and information technologies, play a pivotal role in facilitating large-scale power generation from solar energy. ...

[Product Information](#)

### [Gallium nitride \(GaN\) intelligent power modules \(IPMs\)](#)

6 days ago· Our intelligent power modules integrate low on-resistance high-voltage GaN devices that enable inverter efficiency gains of 2% and reduce power losses 50% or more over IGBT or ...





[Product Information](#)



**10A 1200V 3-phase inverter IPM**

New SLLIMM high power IPM extends voltage levels to 3-phase mains-powered motor drives with simplified design and reduced BOM. This new intelligent power module is part of the high ...

[Product Information](#)

[Intelligent power modules target inverter drives](#)

Claiming the highest energy efficiency and power density in the smallest form factor compared to using Field Stop 7 IGBT technology, the new EliteSiC SPM 31 IPMs deliver ...

[Product Information](#)



[Mitsubishi Electric ADVANCE Vol.168 "High-Frequency"](#)

To fit the high-power inverters and voltage boost-up converter into a small housing, we developed new Nano sinter die-bonded Power Module (NdbPM) with high heat radiation and highly-rigid ...

[Product Information](#)



### Three-Phase Integrated GaN Intelligent Power Module for Smart ...

The DRV7308 GaN IPM enables more than 99% inverter efficiency, optimized acoustic performance, reduced solution size and lower system costs. Enabled by GaN ...

[Product Information](#)



### Three-Phase Integrated GaN Intelligent Power Module for Smart ...

The DRV7308 GaN IPM enables more than 99% inverter efficiency, optimized acoustic performance, reduced solution size and lower system costs.

[Product Information](#)

### New High Level Integrated Intelligent Power Module with Three ...

Abstract: This paper introduces a new high level integrated IPM (Intelligent Power Module) with a three phase inverter and a power factor correction (PFC) topology optimized ...

[Product Information](#)



### Improving grid stability with smart inverter technology: the path to

Discover premium solar inverter solutions for enhanced energy efficiency. Harness sustainable power with our cutting-edge technology.

[Product Information](#)



### [How Intelligent Power Module Inverter Technology is ...](#)

Energy efficiency is a top priority in modern electronics and power systems. One key innovation driving this change is the intelligent power module inverter (IPM). These advanced devices ...

### [Product Information](#)



### **Intelligent Power Module**

High voltage power modules with integrated gate drivers for consumer, industrial and automotive applications. Offering a large range of 3 Phase inverter modules covering power levels from 50 ...

### [Product Information](#)

### **The Intelligent Power Module Concept for Motor Drive Inverters**

An alternative solution to these problems is to use an integrated power module that contains all the required power devices along with matched gate drivers and protective ...

### [Product Information](#)



### **STPOWER SLLIMM intelligent modules**

SLLIMM intelligent power modules provide a high-integration level that means simplified circuit design, reduced bill of materials, lower weight, and improved reliability.

### [Product Information](#)

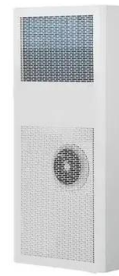




### [Inverter , Electrification , Products / Solutions](#)

A power device integrated in the Inverter converts direct current to alternating current. The built-in power device switches DC from the battery at high speed ...

### [Product Information](#)



### **Improving power quality and efficiency of multi-level inverter ...**

This intelligent algorithm holds promise for various industrial applications that require high-performance multilevel inverters. By ensuring exceptional power quality through ...

### [Product Information](#)

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