

## **PDEOZE PowerContainer**

# **Intelligent Power Module Three-Phase Inverter**



## Overview

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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 W to 10 kW. Available in different topologies including PFC and input bridge rectifier.

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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 power SLLIMM family and provides a compact, high-performance AC motor drive in a simple, rugged design. It combines.

A PFC+Inverter IPM (Intelligent Power Module) optimized for low power Drives is introduced. A three phase inverter and a single boost PFC stage are integrated in one single miniaturized DIL (Dual-In-Line) transfer molded type package with a SOI (Silicon On Insulator) gate driver. With this IPM, the.

The NFAM3812SCBUT is a fully-integrated inverter power module consisting of an independent High side gate driver, LVIC, six SiC MOSFET's and a temperature sensor (VTS or Thermistor), suitable for driving permanent magnet synchronous (PMSM) motors, brushless DC (BLDC) motors and AC asynchronous.

Announced today at APEC 2024, the new, highly integrated family of devices, reduces package size and increases power density for designers. High power systems demand greater efficiency components, and, to that end, insulated

gate bipolar transistors (IGBTs) are an industry staple. However.

STMicroelectronics has developed the SLLIMM (Small Low-Loss intelligent molded module) family of compact, high-efficiency, dual in-line intelligent power modules (IPM) with optional extra features for addressing these needs. Advantages of intelligent power modules vs discrete-based inverters Motor.

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These features make the SLLIMM family ideal for enhancing the efficiency of 3-phase inverters for any motor drive operating up to 20 kHz in hard-switching circuitries and for an application ...

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TI's DRV7308 is a 650V, 205mW 3-phase integrated GaN intelligent power module (IPM) with protection and current sense. Find parameters, ordering and quality information.

Within the iMOTION(TM) IPM family, there are two different series: The IMM100 and IMI110, which combine the motor controller IC and a three-phase inverter stage in a single package, ...

This series of Intelligent Power Modules (IPM) for 3-phase motor drives contains a three-phase inverter stage, gate drivers and bootstrap circuits. BLDC and PMSM such as refrigerators, ...

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Our gallium nitride intelligent power modules help deliver high power levels without a heat sink in compact packages. Enable higher inverter efficiency and eliminate cooling methods in a high ...

Onsemi says its FS7 1200 V SPM31 family of IPMs are particularly well suited for three-phase inverter drive designs. This family is built around the 7th Generation Field Stop ...

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