

# Inverter high voltage module





## Overview

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What is a high voltage 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 W to 10 kW. Available in different topologies including PFC and input bridge rectifier. SiC Modules contain SiC MOSFETs and SiC diodes.

What is a Modular Multilevel Converter?

The Modular Multilevel Converter, introduced for HVDC by Siemens Energy more than a decade ago, is the well-established standard for high voltage, high power VSC applications today. In Siemens Energy HVDC PLUS systems, one modular multilevel converter comprises three Single-phase inverter.

Does the inverter have a high-voltage AC & DC power supply?

The high-voltage AC and DC power supply are not implemented on the inverter. In this build level, the board is executed in open-loop fashion with a fixed duty cycle. The duty cycles are set to 50% for the motor.

What is a multilevel converter in Siemens Energy HVDC PLUS?

In Siemens Energy HVDC PLUS systems, one modular multilevel converter comprises three Single-phase inverter. One converter comprises three identical phase units with two converter arms, and each converter arm contains a number of sub modules supporting the full DC voltage.



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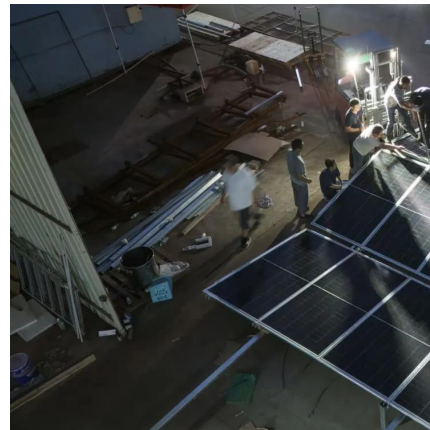


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HIITIO High Voltage IGBT Modules range from 3300V to 6500V, supporting up to 3600A, ideal for traction drives, motor control, smart grids, and high-reliability inverters. Featuring AISiC ...



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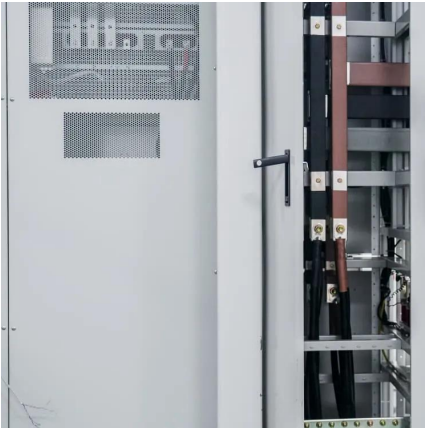
Jun 11, 2025 · The TIEVM-MTR-HVINV provides a 750-W inverter motherboard and a control daughterboard with an MCU, such as the TIEVM-MC-F280013x, making it convenient for ...

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board ...



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Purpose: To provide an overview of complete high voltage power solutions in DC-DC Conversions and Tractions Inverters Introduction



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