

Since SiC MOSFET switches much faster than IGBT devices, the reverse recovery is much more severe. Si IGBT have higher conduction loss at light load, but the reverse recovery can be lower if a fast ...

This reference design is a three-phase inverter drive for controlling AC and Servo motors. It comprises of two boards: a power stage module and a control module.

This reference design provides an overview on how to implement a bidirectional three-level, three-phase, SiC-based active front end (AFE) inverter and power factor correction (PFC) stage.

Read more about this Reference design for reinforced isolation 3-phase inverter with current: voltage and temp protection.

With a modular design, this reference design supports both the C2000™ MCU and MSPM0 series microcontroller daughter-board on the same motherboard. The hardware and software available with ...

The document describes a reference design for a 10 kW bidirectional three-phase three-level (T-type) inverter and PFC that implements high-efficiency power conversion using SiC MOSFETs and ...

TIDM-02014 is an 800-V, 300 kW SiC-based traction inverter system reference design developed by Texas Instruments and Wolfspeed which provides a foundation for design engineers to create high ...

The three-phase inverter reference design shows how to design a compact hardware-protected power stage with low BOM count, in-phase current sensing, fault diagnostic capabilities and high efficiency.

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