

This paper aims to compare the maximum output power and losses of inverters with different types (surface-mounted, through-hole-mounted and power modules) of commercially ...

Thirty-six grid-connected inverters from eight inverter manufacturers are installed on site, allowing Florida Power and Light to gain insight into the products' efficiency, grid support ...

SiC is turned off later and T_{off_delay} is set to minimize turn-off losses (IGBT commuting in ZVS).

This chapter studies and summarizes the various high power density enabling technologies such as wide band gap devices, cooling methods, high-speed machines, integrated drives, passive ...

This reference design provides isolated-bias supply and isolated-gate driver for power switches in traction inverters. Both the bias power and driver provide the high isolation needed for 800-VDC bus ...

To simultaneously resolve both load sensitivity and high voltage stress--two persistent challenges in Class E design--this paper proposes a novel clamped load-independent Class E inverter.

This design guide reviews HEV/EV architectures, the failure modes of the traction inverter system, and how the gate driver and surrounding circuits can be used to enhance the reliability of the system.

SUMMARY The load-independent zero-voltage switching class-E inverter has garnered considerable interest as an essential component in wire-less power transfer systems. This inverter achieves high ...

To overcome this challenge, we propose a new approach, designing two inverters in parallel to maintain constant rated output power by controlling a phase shift between two inverters.

This thesis presents the design, physical prototype, controller, and experimental results of a high-frequency variable load inverter architecture (referred to as HFVLI) that can directly drive widely ...

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