

Measurement of IGBT half-bridge module in photovoltaic inverter

The IGBTs inside the module are configured in half-bridge configurations. Each half-bridge is driven by two IGBT gate drivers--top (high-side) and bottom (low-side).

This article presents the design and hardware implementation of an IGBT-based half-bridge voltage source inverter (VSI) to be used as a basic cell to assemble VSIs of different topologies...

In this paper, a precise detailed model of a commercial half-bridge IGBT module is presented. It includes the parasitic inductances of leads, bond wires, DBC plates, ...

This study presents an operational analysis of a half-bridge single-phase inverter with ultra-fast IGBTs and freewheeling diodes (Module SKM100GB125DN, manufact

In evaluating the characteristics of IGBTs, stray inductance of the test circuit is a major factor to be considered. This document presents the measurement method of the stray inductance (inclusive of ...

As a first stage in the research of the dead time effect, a laboratory setup of a half bridge inverter with IGBTs was built. The half bridge inverter is only used in power circuits for DC/AC power conversion.

In this paper, a precise detailed model of a commercial half-bridge IGBT module is presented. It includes the parasitic inductances of leads, bond wires, DBC plates, and the parasitic capacitances of the ...

This article presents the design and hardware implementation of an IGBT-based half-bridge voltage source inverter (VSI) to be used as a basic cell to assemble VSIs of different topologies in ...

This paper presents the design guidelines, fabrication process, and evaluation of a 1.7-kV and 300-A multi-chip half-bridge power module using the novel Si-IGBT and SiC-MOSFET-based ...

An assessment and comparison of artificial intelligence-based control techniques for single-phase 5-level grid-tied power inverter with the best performance and lower total harmonic presented by the ...

The left diagram in Figure 19 shows the measurement results of IGBT current of the pulse test for the parallel SEMIX603GB12Ep modules. Each of the modules was controlled by a dedicated SKYPER12 ...



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