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Title: High frequency inverter with air gap

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This paper presents a detailed analysis to evaluate the performance changes of a high frequency inductor used in a solar inverter by new arrangement ...

In this paper, Simulation & Hardware development of High frequency Inverter with 90KHz frequency with Pulse Width Modulation ...

This paper presents a detailed analysis to evaluate the performance changes of a high frequency inductor used in a solar inverter by new arrangement scheme of the air gap locations.

The paper presents an effective design and implementation of High Frequency Inverter for WPT applications in MATLAB/Simulink at 1KW,230V and 90KHz frequency with open and closed ...

There are two center-pole material cores, and air-gap distribution arrangement in the magnetic components. The saturation current value, magnetic flux density, flux fringing, and power loss ...

In this paper, Simulation & Hardware development of High frequency Inverter with 90KHz frequency with Pulse Width Modulation switching strategy is presented.

Each module comprises a high-frequency inverter and rectifier, and two matching networks that enable effective power transfer by providing voltage and/or current gain and reactive ...

The main objective of this paper is to summarize the current topologies and related technologies of high-frequency inverters for WPT systems and to study the key issues in high ...

This high performance is achieved through a combination of high-frequency operation, innovative matching network design, and enhancements in coupling plate design that alleviate the risk of ...

This article presents a novel approach using a resonant inverter operating at 6.78 MHz for a robust capacitive power transfer (CPT) system with a small air gap.

A common feature of all applications for which the contactless energy transmission is used up to now is the relatively small air gap (in a range of several millimetres) between the primary and ...

High-power large air-gap capacitive wireless power transfer (WPT) systems require paralleling either the semiconductor devices in their high-frequency inverters

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