High frequency modular parallel inverter

Abstract--This paper presents a control strategy for input-series-output-parallel (ISOP) modular inverters. Each module is a high-frequency (HF) ac link (HFACL) inverter composed of an...

An IPT prototype supplied by the proposed parallel multi-inverter with three inverters was designed, built, and tested.

Due to its modular structure and flexibility, the cascaded H-bridge multilevel inverter (CHB-MLI) is widely used in high-power applications, particularly in flexible alternating current ...

In order to provide high and extendable power levels for inductive power transfer (IPT) system, a parallel multi-inverter system based on modular inverter is presented.

THD profiles of Va1b1 produced by the 7 level CHB inverter with PS-PWM and LS-PWM. These methods operate at fundamental frequency, therefore without switching losses. Developed by ...

The reduction methods for modular inverters are compared in terms of eficiency, performance, and reliability. The possible approaches for circulating current reduction are categorized into three ...

Because the voltage level of power electronic equipment cannot be very high, a medium-voltage inverter is not only expensive, but also limited by the voltage level, and cannot be widely ...

In this paper, a multi-module parallel topology of a high-frequency inverter is analyzed, in which the power combining network can maintain the soft switching characteristics of the inverter modules.

This paper presents a full digital control strategy for parallel connected modular inverter systems. Each modular inverter is a high frequency (HF) AC link inverter which is composed of a HF inverter and a ...