Two high-frequency inverters output simultaneously

This paper presents an induction heating high power supply constituted of an only inverter circuit and a specially designed output resonant circuit. The whole circuit supplies both medium and high ...

Design and control aspects related to dual frequency inverters are presented in this paper. Zero voltage switching aspects related to this configuration are explained.

The circuit topology is composed of a two-level cascade of a multi-input Boost DC-DC converter and a Buck inverter. The front stage adopts the maximum power output phase-shifting pulse width ...

This study introduces a new topology for a single-phase photovoltaic (PV) grid connection. This suggested topology comprises two cascaded stages linked by a high-frequency transformer. In ...

This study proposes a three-leg inverter topology with a load resonant circuit which can provide independent and simultaneous control of low-frequency (LF) and high-frequency (HF) currents ...

The single new energy power supply method has defects such as instability and discontinuousness. In order to improve the flexibility and stability of the power.

In this paper, a double Fourier series-based method of harmonic analysis for the dual-frequency inverter (DF-inverter) is proposed, which can accurately calculate the magnitude of each of ...

Abstract: This paper proposes a design methodology for a high-frequency resonant inverter module consisting of two inverters in parallel to deliver constant output power with high ...

This paper presents new resonant inverter topologies for dual-frequency induction heating (IH). These 2T1C and 3T topologies combine the advantageous features of two- and one ...

Dual frequency currents are obtained by means of medium frequency PWM modulation of the high frequency signal. Dual output frequencies are obtained with single inverter.

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