Three-phase half-bridge inverter DC capacitor

Abstract A control device for a three-phase inverter of a vehicle prime mover is configured to activate active discharge of a DC link of the inverter and at the same time to ...

An input inductor with three diodes is applied to a traditional three-phase two-level VSI, which consists of three half-bridge legs using 6 switches in total (commonly notated as -6 or simply ...

Using the proposed configuration, the number of components and independent DC supplies are reduced compared with the conventional topologies such as a neutral point ...

The configuration of the five-level three-phase hybrid multilevel inverter, which employs a two-level voltage source inverter and half-bridge modules supplied by individual DC ...

The increasing demand for integrating renewable energy sources necessitates inverter topologies with boosting capabilities. Using ...

Using the proposed configuration, the number of components and independent DC supplies are reduced compared with the ...

This paper proposes a method to suppress the capacitor current imbalance between the phase legs of a three-phase inverter circuit. This circuit ...

The proposed inverter is thoroughly examined in various operating modes and compared to other standard topologies. The laboratory prototype and experimental results of ...

The load connections both limit the instantaneous voltages that may be synthesized with inverters comprising bridge legs fed from a single dc bus (without shorting ...

At the present time, symmetric level inverters have some problems, such as large modulation ratio and many reactive elements. This paper presents a new inverter with a new ...

The increasing demand for integrating renewable energy sources necessitates inverter topologies with boosting capabilities. Using inverters with boosting capability and a low ...

This paper proposes a method to suppress the capacitor current imbalance between the phase legs of a three-phase inverter circuit. This circuit consists of half-bridge modules and DC-link ...

A flying capacitor inverter is defined as a half-bridge three-level inverter topology that utilizes a floating capacitor instead of clamping diodes, enabling additional voltage levels while providing ...

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