Pulsating DC for Inverter

PDCL HF inverter consists of two active stages, which are the front-end dc/ac and pulsating-dc/ac converters. The dc/ac con-verter generates width modulated bipolar pulses for HF trans-formers.

Obtained results indicate that operation with deep unbalances and powers of opposite signs in individual phases leads to current oscillations in the DC link. This phenomenon significantly ...

y PWM-RHFL inverter supplied by a low-voltage dc source. It consists of a multiphase dc/pulsating-dc converter as the front end and a three-phase pulsating-dc/ac voltage-source

In this work it is presented a generalized converter configuration for a high-frequency pulsating DC-link inverter for three-phase applications. The configuration consists of a...

In this paper, a new three phase transformerless step-up inverter with pulsating DC-link is presented for PV/EV applications. The proposed inverter provides step-up, semi single stage operation along with ...

Single-phase inverters supplying AC loads, when connected to the same DC bus, introduce double-frequency power oscillations. This paper proposes a method to minimize DC bus ...

Proposed inverter and modulation are suitable for electric, hybrid electric, and fuel cell vehicles. The absence of the dc link capacitor and DTPM produce pulsating dc voltage that retains...

This paper presents a method to minimize the DC bus power low-frequency oscillations in a building micro-grid composed of renewable resources, batteries, and si

The configuration consists of a DC/DC-pulsating converter cascaded with a DC-link capacitor-less three-phase inverter. Due to the absence of a DC-link electrolytic capacitor, the ...

This paper proposes a current-fed single-phase inverter without constant intermediate DC link. It eliminates electrolytic capacitor from the DC-link and introduces an intermediate pulsating DC bus.

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