

Title: Inverter DC side ripple

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The voltage ripple is the predominant dc-link capacitor design parameter in automotive traction voltage source inverters. Therefore, the reduction of the voltage ripple results in the decrease ...

The proposed method is able to significantly reduce the second-order harmonic component in the DC side current of the boost inverter without increasing other harmonic components.

Since a reliable design of the DC-link capacitor depends on an accurate estimation of its current ripple, this paper proposes analytical ...

A second band passing filter (BPF) feedback control loop is used to feedback the second harmonic ripple voltage in DC link into the storable modulation index. This strategy can ...

It shows that the dc-link current and voltage ripples in a three-phase inverter contain not only high-frequency harmonics, but also double fundamental frequency harmonics. ...

This paper proposes an analytical formulation-based minimization of DC link current ripples for interleaved parallel inverter systems. Parallel inverter systems find ...

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