
A boost converter with closed-loop DC-link voltage control ensures stable energy transfer and decouples PV-side dynamics from inverter-side load variations. The inverter ...

This paper presents a simple switched-coupled-inductor inverter (SCII), as well as completes the relevant analysis, design, and implementation, for efforts aimed at achieving ...

A single-phase, single-stage, differential boost inverter comprises two independently-controlled boost DC-DC converters, with the load connected between their outputs. The net ...

Therefore, this paper proposes a three-level quadratic DC-DC boost converter as a suitable solution to replace conventional inverters in photovoltaic systems, while combined ...

There is a wide choice of DC-to-DC switching controllers upon which an inverting voltage regulator circuit can be based. For example, ...

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This paper proposes a control strategy for the Boost inverter in which each Boost is controlled by means of a double-loop regulation scheme that consists of a new inductor current control inner ...

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This paper presents a comparative analysis of the three-phase Split-Source Inverter (SSI), quasi-Z-source inverter (q-ZSI), and the conventional two-stage DC-DC-AC ...

Thus, it was demonstrated that the proposed control effectively addresses the task of tracking the bipolar voltage trajectory in the DC/DC Boost converter-full-bridge Buck ...

mode control has been proposed as an option. How-ever, it does not directly control the inductance averaged-current. This paper proposes a control strategy for the Boost inverter in ...

When the DC voltage is low, a series DC boosting link may be required, which increases system costs and control complexity. To address this issue, this paper proposes a ...

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