

In this article, a SITO DC converter operated in continuous conduction mode is proposed which enables a DC-DC power conversion from a PV source to multiple independently controlled DC output voltage ...

Therefore, to reduce the inductor size (potentially cost) and improve the power density, new insulation technology, and/or structure need to be adopted. There have been some works discussing the MV ...

The proposed DC-DC converter offers multiple advantages, including high gain capability, bidirectional functionality, and an output inductor designed to optimize powertrain ...

Abstract--An enhanced DC-DC converter is proposed in this paper, based on the combination of the Cuk and SEPIC converters, which is well-suited for solar photovoltaic (PV) applications. The ...

Abstract--Typically, solar inverters curtail or "clip" the available power from the PV system when it exceeds the maximum ac capacity. This paper discusses a battery system connected to the dc-link of ...

This paper proposes a non-isolated input-parallel high-gain DC/DC converter with active switched and coupled inductors (NI-IP-ASL& CI) for new energy generation systems. This ...

Mentioning: 69 - An enhanced DC-DC converter is proposed in this paper, based on the combination of the Cuk and SEPIC converters, which is well-suited for solar photovoltaic (PV) applications. The ...

The DC-side dynamics of two-stage grid-forming (GFM) inverters are often neglected or oversimplified in power system studies, although they play a vital role in stability. Detailed models for the primary ...

High-gain bidirectional (DC-DC) converters are needed for a two-stage OBC since e-rickshaws have low battery voltages. High gains in the converters are attained by using switched ...

A new class of high-voltage-gain DC-DC converters for high efficiency and transformer-less DC-DC applications where large voltage step-up ratios are required, is presented in this paper.

In this paper, a new non-isolated ultra-step-up SEPIC-based DC-DC converter was designed for applications in DC microgrids powered by solar panels. The proposed converter ...

These converters have a DC-side circuit with power electronic switches, capacitors and inductors with buck and boost capabilities [6], [10], [11], [12], [13], [14], [15]. In multi-terminal AC grid ...

In the stability analysis of DC (direct-current) power grids, AC (alternating current)/DC converters are usually

treated as linear proportional amplifiers or inertial links. However, this ...

This work proposes a new, non-isolated, high-gain, and highly efficient DC-DC converter that uses active linked inductor impedance source to boost a solar panel's output power.

The article presented a novel architecture of a switched inductor-capacitor based converter that is suitable for high voltage and low duty applications in a DC microgrid particularly to ...

The LC filter circuit topology is closely analogous to that of the LCL filter apart from the grid-side inductor. Therefore the coupled filter model derived from the LCL filter is also available for ...

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A high-gain DC-DC booster converter using a changing inductor and capacitors is described in this study for usage in solar microgrids. The suggested converter effectively boosts its low-voltage outputs to ...



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