

The fluctuation of capacitor voltage and the high amplitude of common mode voltage in sub-modules is a thorny problem. In this paper, a novel fly-across capacitor modular ...

The series capacitor buck converter is a dc-dc converter topology that uniquely merges a switched capacitor circuit and a multiphase buck converter. Many of the challenges faced by ...

In the realm of medium/high voltage applications, the modular multilevel converter with an active power filter (APF-MMC) emerges as a technology that eliminated the ...

The series capacitor buck converter has unique properties that facilitate . efficient. high frequency operation o Design recommendations. for a multi-MHz series cap buck converter enable easy ...

High Precision Voltage- to-Frequency Converter Sidong Cai, I. M. Filanovsky University of Alberta, Edmonton Alberta, Canada, T6G 2E1 Abstract -- A bipolar high precision voltage-to ...

Fixed Frequency LCC Resonant Converter Modeling and Optimal Design for High-Voltage Capacitor Charging Power Supply in Constant Power Control

A high-efficiency DC-DC converter employing a modified architecture called the hybrid switched inductor-capacitor series (MHSLCS) is proposed in this paper. The primary ...

high-frequency dc-dc converters with high-voltage-conversion- ratio (HVCR) including high step-up/down and bidirectional capabilities, have more and more significance to data-center

A 20-kJ/s 10-kV 1-kHz repetition rate capacitor charger design and testing are described. The goal of the development was to combine high performance and versatility with ...

The tapped-series capacitor converter is paralleled to output of LLC converter with closed-loop control to regulate the total output voltage with the high conversion ratio ability. The ...

Abstract: This paper presents an analytical and experimental comparison of a two-phase buck converter and a two-phase, series capacitor buck converter. The limitations of ...

CLSC Coupled inductor switched capacitor. VM Voltage multiplier. HVM Hybrid voltage multiplier. I. INTRODUCTION HIGH-FREQUENCY power conversion technology has become critical for ...

In this article, the current main high-frequency HVCR dc-dc converters are classified into inductive-based and capacitive-based approaches, which can then be described ...

Buffer line-frequency energy at relatively high voltage with large voltage ...

High-frequency high-voltage-conversion-ratio DC/DC converter Converters with two windings [89]
Converters with multi-windings [90] Other SCCs with ... switched capacitors in series. The ...

High-frequency power conversion technology has become critical for high power density, high efficiency, fast response and low cost power electronics. In particular, high-frequency dc-dc ...

1 ??· Switched capacitor-based inverters are emerging as a popular alternative to the conventional MLIs that do provide inherent charge balancing, reduced device stress, output ...

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