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High frequency inverter voltage doubler rectification

By analyzing the difference between the center trapped rectifier and the double current rectifier, this document explains and demonstrates the advantage of the current doubler rectifier for DC/DC ...

This article presents a novel solar photovoltaic energy harvesting system for charging the high voltage Electric Vehicle (E.V.) battery using a Partial Resonant Inverter (PRI) driven doubler ...

To address these challenges, this paper proposes a novel rectification circuit based on the VDR topology, specifically designed for LLC resonant converters, offering simplified gate drive ...

IR1167S is a smart secondary-side driver IC designed to drive N-Channel power MOSFETs used as synchronous rectifiers in isolated Flyback converters. The IC can control one or more paralleled ...

Resonant Converter with Voltage-Doubler Rectifier or Full-Bridge Rectifier for Wide-Output Voltage and High-Power Applications

To overcome these challenges, a novel higher voltage step-down ICPT topology is proposed by incorporating the hybrid switched capacitor (HSC) inverter and synchronous inverse ...

This paper investigates a dual-active-bridge (DAB) converter topology based on a voltage-doubler rectifier and series resonant network.

This paper presents a novel rectification circuit that can utilize the maximum available bandwidth of a conventional voltage doubler circuit for ultrawideband rectification.

The UCC3895EVM-001 uses the AB outputs of the UCC3895 for direct control driven synchronous rectification of a current doubler output stage, helping the user gain a better understanding of this ...

To develop thermoelectric power conditioning systems that are highly efficient over a wide range of input voltages and support medium-rated power, this paper introduces a hybrid resonant dc/dc converter ...

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