

The synchronous rectifier solar container element is a capacitor

Abstract This paper presents a novel isolated resonant zero-voltage switching converter with a self-driven synchronous rectifier for low-voltage high-current applications. The active resonant tank ...

ABSTRACT Synchronous rectification is a commonly used technique to improve the efficiency of DC/DC converters with low ($\leq 5V$) output voltages and high output currents. Control of the synchronous ...

The rectifier loss is simply the forward voltage drop times output current per Equation 1. With a synchronous rectifier, there is some dependence on the duty cycle for power dissipation because the ...

For bidirectional CLLC resonant converters, synchronous rectification is an effective method to reduce their losses. In this paper, a synchronous rectification (SR) driving strategy for ...

To meet these demands, switching power supply designers in the late 1990s began adopting Synchronous Rectification (SR)--the use of MOSFETs to achieve the rectification function typically ...

A 2-phase series capacitor synchronous rectifier (SC-SR) in active clamp forward (ACF) converters is proposed to solve the inductor cooling problems caused by the recent trend of increasing the output ...

synchronous rectifier, remains unexplored. Conventional synchronous rectifiers are implemented on high current circuits where diode losses are high. However, high voltage power electronics operate at ...

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Figure 8 shows the typical secondary-side schematic for a series resonant converter with a capacitive output filter. Implementing synchronous rectification in such applications would require 2 current ...

LLC resonant converter is one of the most popular isolated dc/dc converters owing to its advantages of simple control, wide voltage gain regulation capability, and soft switching ...



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