

Switching Analysis of Synchronous Rectifier MOSFETs With Phase-Shifted Full-Bridge Converter and Current Doubler

By Patrick Chiang and Mark Ho

Abstract

This application note will analyze the switching behavior of synchronous rectifier MOSFETs in a phase-shifted full-bridge converter topology with a current doubler. Figure 1 shows the basic circuit of this application. An overview will describe the timing diagram of a phase-shifted full-bridge converter for achieving zero voltage switching (ZVS). Two topologies are introduced for gate driving of synchronous rectifier (SR) MOSFETs. The timing diagrams will introduce the SR MOSFET operations during every stage for both topologies. The body diode will be highlighted, and the operational phenomena that occur when the SR MOSFET turns off will be described. The power dissipation of SR MOSFETs will be presented as equations to assist in designs, while test results of waveforms will help in understanding the application. A

summary will include the advantages of SR MOSFETs, an efficiency comparison, and other design considerations.

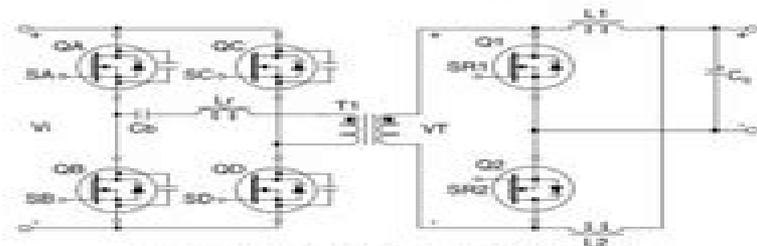


Figure 1 - Phase-Shifted Full-Bridge Converter

Introduction to the Phase-Shifted Full-Bridge Converter

The phase-shifted full-bridge converter has long been used to achieve high efficiency and high density in power supply designs with outputs from 500 W to 5000 W. The traditional full-bridge converter transfers power from primary bulk capacitors to secondary LC filters when its MOSFETs (QA and QD, or QB and QC) are turned on at the same time. This operation results in increased power dissipation (known as switching loss) when a primary MOSFET is turned on and off. The higher the switching frequency, the greater the switching losses.

The phase-shifted full-bridge converter introduces an almost 50 % fixed-duty cycle to QA, QB, QC, and QD. The pulse width modulation (PWM) duty is controlled by the overlapped duty of QA and QD, and QB and QC. There is a small amount of overlap between QA and QB, and QC and QD, which is called PWM delay (PWM delay AB, and PWM delay CD). PWM delay will prevent the same-side MOSFETs (QA and QB, or QC and QD) from turning on simultaneously, which would result in a short circuit that burns out the MOSFETs. In addition, the delay time helps

the MOSFETs to achieve zero voltage switching (ZVS). When the PWM pulse is off, the snubber inductance L_r , by way of storage energy, will resonate with the output capacitances of the MOSFETs and oscillate the MOSFET voltage to zero before the MOSFETs turn on at the next period. At this stage, ZVS (which means no switching loss) occurs and a significant improvement in efficiency is gained.

Due to high density (per W/inch³) and thermal considerations, most designers do not add an external snubber inductor in conjunction with the transformer (shown in Figure 1). The snubber inductance L_r results from the leakage inductance of transformer T1. Only if the primary current I_p is enough to let L_r be stored at a minimum energy, and an achieved ZVS transition, is the external inductor not necessary. Using the leakage inductance of the transformer, most power supplies can achieve ZVS with more than 50 % maximum load. It is necessary to add C_b to avoid an unbalance of the transformer flux and saturation of the transformer.

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