



Keywords: flyback, continuous-conduction mode (CCM), discontinuous-conduction mode (DCM), synchronous, integrated circuit, dual active bridge, converter, dc converter, boost converter, flyback converter, dual active bridge converter, 66437794, 66437794

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Designing Flyback Converters Using Peak-Current-Mode Controllers

By: [Ganesh Kumar Venkatesh](#)
Date: 07/2019

Abstract: Flyback converters design using [SABER](#) [model](#) is outlined. Design methodology and calculations for continuous-conduction mode (CCM) and discontinuous-conduction mode (DCM) and related variables.

Introduction

This application note describes the methodology of designing flyback converters using the [SABER PowerSABER Plus](#) peak-current-mode controller. Flyback converters may be operated in discontinuous-conduction mode (DCM) or continuous-conduction mode (CCM). The important design parameters in power devices, and converter design vary depending on the operating mode of the converter. Formulas for calculating component values and ratings are also presented.

DCM Flyback

Primary Inductance Selection

In a DCM flyback converter, the energy stored in the primary inductance of the flyback transformer is delivered during the output. The important primary inductance value for which the converter behaves in DCM at all operating conditions can be calculated as:

$$L_{\text{primary}} = \frac{V_{\text{max}} - V_{\text{aux}}}{f_{\text{sw}}} \sqrt{\frac{2P_{\text{out}}}{V_{\text{max}} - V_{\text{aux}} - V_{\text{aux}}}} \quad (Eq. 1)$$

where V_{max} is the maximum load for the output (minimum V_{out}), V_{aux} is the voltage drop of the output capacitor due to the parasitic inductance, and f_{sw} is the switching frequency of the power converter. Choose the primary inductance value to be less than L_{primary} .

Duty Cycle Calculation

The average value of the duty cycle (D) can be calculated for the selected primary inductance (L_{primary}) as:

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