Design of Switched-Mode Power Supply Using MATLAB/SIMULINK

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Abstract—The SMPS (switched mode power supply) has been achieved the high performance and high power density by developing the power semiconductor devices such as MOSFET, IGBT, BJT and GTO etc. SMPS have the capacity to handle the variable loads. For the power supply designers the efficiency, weight and size of power supplies are a great area of concern. In this paper the SMPS circuit having power MOSFET for switching operation and by using pi controller based PWM for providing the feedback to the MOSFET for controlling purpose, is simulated in MATLAB. The output of SMPS remains constant irrespective of load and input voltage variation from 140v to 300v. The function of the converter is to provide a reliable and regulated output voltage at varying input voltage.

L INTRODUCTION

In power electronics various process are used to convert the electrical energy from one form to another in an efficient, compact, clean and robust manner for convenient utilization. The aim of the project is to design and simulate the SMPS (switch mode power supply)circuit by the use of MATLAB for ac voltage to de voltage conversion, having power MOSFET as a switch and feedback circuit to drive the power switch. This paper explains the operation of PWM control, SMPS (switching mode power supply), rectifier and buck converter. The block diagram shows the operation of the SMPS. This contains the two major circuits, one is power circuit and another one is control circuit which is used to control the power circuit by controlling the pulse which is provided for the power switch.

For some of the DC/DC and AC/DC application such as set top box, laptop adapters and telecom application, instead of low voltage rating power MOSFETs we use high voltage power MOSFETs because it possess high gate charge.

II. BUCK CONVERTER

This converter circuit is use to step down the voltage level from input according to the requirement

The operation is start with a switch that is open, it means no current is flow in the circuit when the switch is closed the current start flowing in the circuit.

Continuous conduction mode: In this mode current through the inductor never falls to zero during the commutation cycle

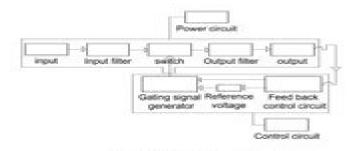


Figure 1: Block Diagram of SMPS

The operating principle is described by the Figures:

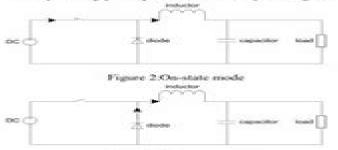


Figure 3:Off-state mode

The two circuit configurations of a buck converter are: i) On-state (when the switch is closed)

ii) Off-state (when the switch is open)

When the switch is in on state, the voltage across the inductor $isV_L = V_1 - V_0$. The whole current flow through the inductor and the diode is reverse-biased. This inductor current rise linearly. When the switch is in off state, the diode act as forward biased. Now the voltage across the inductor is $= -V_0$ and the Current I_L decreases. The energy stored in the inductor L is $E = \frac{LI^2}{2}$.

<u>Design Of Switched Mode Power Supply Using Matlab</u> <u>Simulink</u>

Limin Jia, Yong Qin, Baoming
Liu, Zhigang Liu, Lijun Diao, Min An

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