



## Single Switch Dual Output Variable DC Power Supply

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### Abstract

Single Switch Dual Output concept has been introduced through an idea of controlling two DC power outputs by using only one switch. The controlling strategy is to control one voltage output by duty the duty of the PWM and the other voltage by the switching frequency of PWM. In order to respond to the duty of the PWM buck converter is chosen and to respond to the switching frequency resonance frequency has been chosen. As the controller for the system PI controller has been chosen. The main objective here is to introduce the benefits of single switching concept.