

DESIGN AND ANALYSIS OF A DC -DC BUCK BOOST CONVERTER

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ABSTRACT :

This paper proposed a DC-DC buck boost converter which mainly presents the downbeat lower output voltage than the input voltage. It consists of same elements similar to a conventional DC-DC buck converter such as MOSFET switch, paired inductors and switched capacitor. A simulation has been conducted to compare and contrast the efficiency of the proposed DC-DC buck boost converter and conventional DC-DC buck converter. The result shows the efficiency of the proposed DC-DC buck boost converter is higher than the conventional DC-DC buck converter in terms of both switching frequency and load variation.

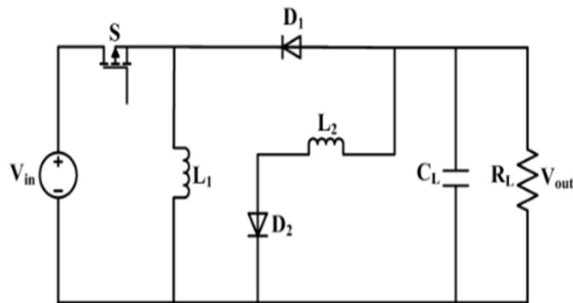


Figure 2: Dc to Dc Buck Boost Converter

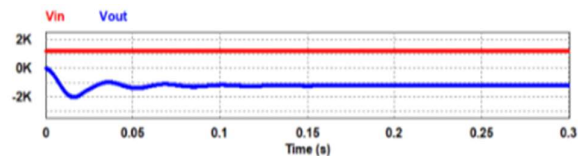


Figure 1: Input and Output voltage of proposed buck boost converter

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