



Analysis on a New Four Quadrant Switch Mode DC-DC Converter

By Mohammad Mazharul Islam

LAP Lambert Academic Publishing Aug 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - A new topology has emerged out of the research to provide four quadrant operation of a high frequency dc-dc converter having one supply source and easy gate pulse control. This new topology has been developed out of switching dc-dc converters with voltage lift circuits; its operational range is wide at high conversion efficiency, whereas, the present four quadrant switching dc-dc converters conversion efficiency decreases around the operation of a particular duty cycle. The result is a single source topology switched by conventional ON/OFF duty cycle control as used in other high power chopper circuits. The author investigated and suggested that combined circuit of four quadrant converter is possible. But compact and fully FOUR QUADRANT SWITCH MODE DC-DC CONVERTER is still unavailable. This work is a continuation of previous research to develop a NEW FOUR QUADRANT SWITCH MODE DC-DC CONVERTER with improved performance. 84 pp. Englisch.



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