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(54) Title of the invention : RELIABLE BIDIRECTIONAL DC-DC CONVERTER CIRCUIT WITH SINGLE INDUCTOR

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(57) Abstract :

ABSTRACT: Title: Reliable Bidirectional DC-DC Converter Circuit with Single Inductor The present disclosure proposes a bidirectional DC-DC converter circuit with single inductor that aids to reduce the number of individual capacitors for every switch in the clamping circuit. The proposed converter circuit has enhanced reliability and life. Further, the proposed converter minimizes the switch voltage stresses in the converter and thereby improve the performance of the converter. The size, weight and volume of the converter are reduced to thereby reduce the overall cost. The bi-directional DC-DC converter is suitable for high power applications.

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