

عنوان مقاله:

A New Two Input High Step-up Converter for Renewable Energy Sources

محل انتشار:

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خلاصه مقاله:

In this paper a new two input step-up converter is presented. In the proposed converter, a new technique has been used to create soft switching conditions with the least number of auxiliary elements. The auxiliary circuit not only provides zero voltage switching, but also absorbs the energy of the leakage inductor and prevents voltage surge across the switches. On the other hand, the use of coupled inductors also increases the voltage gain of the converter and greatly reduces the voltage stress on the switches. The proposed converter is simulated in PSICE and its results confirm the circuit theory analysis.

کلمات کلیدی:

two input converter, high step-up, ZVS, Auxiliary circuit

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