

عنوان مقاله:

Design of a new soft switching high step-up converter with high voltage gain

محل انتشار:

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نویسندگان:

Venus Tahmasebi - Department of Electrical Engineering institute of higher education of acecr Isfahan, Iran

Mehdi radmerhr - Department of Electrical Engineering Islamic Azad University Sari Branch Sari, Iran

خلاصه مقاله:

In this paper a new zero voltage switching high step-up converter with an active clamp circuit is proposed. The active clamp circuit not only absorbs the voltage surge across switches at turn off instance due to leakage inductance, but also provides soft switching condition for all the semiconductor elements. Implementation of control circuit is very simple since the converter is PWM controlled and the auxiliary switches turn on are complementary with respect to main switches. In the proposed converter, one coupled inductor is applied in conventional high step-up converter for increasing converter gain. The simulation results are presented, and modeling the circuit by using .MATLAB/SIMULINK plat form

کلمات کلیدی:

Zero voltage switching (ZVS) DC-DC converter Pulse width modulation (PWM) active clamp

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