



A Novel High Step-Up Interleaved Converter with Voltage Multiplier Circuit for PV Systems

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Abstract – A novel high step-up converter, which is suitable for photovoltaic system is proposed in this project. Through a voltage multiplier module composed of switched capacitors and coupled inductors, the proposed converter obtains high step-up gain. The proposed converter not only reduces the current stress. But also constrains the input current ripple, which decreases the conduction losses and the efficiency gets improved.

Keywords - Boost-fly back converter, high step-up, photo-voltaic (PV) system, voltage multiplier module.

