

136. SIMULATION OF HIGH STEP-UP DC-DC CONVERTER FOR PV APPLICATIONS

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Photovoltaic (PV) module is the fast growing segment among the renewable source of energy owing to the depletion of fossil fuels. But the output of PV module is low. In order to obtain the sufficiently high voltage, a step up dc-dc converter is required. This paper focuses on the high step-up switched capacitor DC-DC converter combining both inductor energy cell and switched mode DC-DC converter for PV applications. The proposed converter provides a high gain compared to the conventional boost converter. Simulation studies are carried out in MATLAB/SIMULINK. The performance parameters such as ripple and gain are computed for the proposed topology and the results are verified.

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