7. Conclusion

A creative DC to DC boost power converter with high voltage gain output using closed loop proportional integral and derivative control mechanism for solar photovoltaic renewable energy system is proposed. It has the following advantages: 1) power from the PV module can be delivered to the utility load directly without transmission loss. 2) The proposed system is realized high voltage and high efficiency. a large range of input voltage variation caused by different isolation and temperature are made acceptable. In this Project, the operation principle of the proposed dc to dc boost power converter has been introduced using closed loop control mechanism is adopted to realize the maximum power and voltage output of the circuit. The trapped solar energy is converted into DC voltage and the same is again converted into AC voltage using an Inverter and connected to the load. The control circuits are simulated by using MATLAB/Simulink Simulation results at different operating conditions and are shown.

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Author Profile

Krishan Kumar is from Mewar University, Department of Electrical Engineering, Chittorgarh, Rajasthan, India