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An Efficient High Voltage Gain Using Two-Stage Cascaded Interleaved Boost Converter for Solar PV System with MPPT Technique

In this project, to control solar applications, a two-stage Cascaded Interleaved Boost Converter (CIBC) with maximum power point tracking control strategy is proposed. The proposed two-stage CIBCs consist of two Interleaved Boost Converters. The IBC is connected in series to extract the maximum power from PV system and to provide a high voltage output with less ripple voltage. The modeling of PV and power converters are studied by simulation in MATLAB/SIMULINK.

Domain: Power Systems solar Power Generation

Technology: Electrical