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A strategy to enhance converter continuous current mode in PV MPPT system under low solar irradiance situation
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Abstract

Typically photovoltaic (PV) maximum power point tracking (MPPT) system concerns in PV output power at specific high solar irradiance. Poor response may be found when load side characteristic is considered particular at low solar irradiance. A novel PV MPPT scheme is present by integrating load power signal into MPPT control signal. The simulation results show that the proposed MPPT system can be operated efficiently at significantly lower solar intensity compared to those of the conventional P&O MPPT system. © (2014) Trans Tech Publications, Switzerland.

Author Keywords

Buck converter; Continuous current mode operation; Maximum power point tracking; Photovoltaic cell

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