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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for maximum power point tracking based on shading pattern identification, comprising: an artificial neural network tool configured to display a plurality of patterns on a computing device, the plurality of patterns represent photovoltaic energy under an uniform irradiance and a partial shaded condition, the plurality of patterns obtained from the artificial neural network tool and temperature of at least two solar panels fed to at least one two-dimensional lookup tool to get maximum power point tracking; a plurality of gate pulses is obtained from a PWM circuit, whereby the PWM circuit is driven to switching element in a DC-DC boost converter, the DC-DC boost converter comprising at least one filter capacitor, at least one filter inductor, at least one DC capacitor, at least one switch, and at least one load. FIG. 3

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