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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a standalone photovoltaic inverter with reduced harmonic distortion comprising of: two voltage points configured to decide the shading pattern on the PV panel surface and the two voltage points are calculated and given to artificial neural network along with temperature on the photo voltaic (PV) panel surface to obtain the corresponding patterns which are obtained from artificial neural networks (ANN) and temperature on the panel surface is fed to the 2-Dimensional lookup table to get exact MPP of PV system and the patterns generated are subjected to analysis.

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