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Solar Maximum Power Point Tracking Techniques: An Overview

The increase in the energy demand inspires researchers to research on various clean energy resources like wind energy, solar energy, etc., Solar energy is one of the most efficient renewable energy resources that is abundantly available. large increase in the usage of Photovoltaic cells has been seen in the past few years in grid-connected and stand-alone inverter systems. The Output of Photo-Voltaic cells depends on the environmental conditions such as solar irradiations and temperature. The major challenge is to optimize the output of solar PV systems using Maximum power point tracking (MPPT) technique. This paper focus on the different MPPT techniques and their comparisons. This paper is useful for researchers in the field of solar inverters.

Keywords: Maximum Power Point Tracking (MPPT) , Photovoltaic cell, Renewable energy, solar inverters.

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