

عنوان مقاله:

Analysis of Photovoltaic Module Resistance Characteristics

محل انتشار:

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خلاصه مقاله:

This paper proposes a novel analysis method for inner resistances of photovoltaic (PV) module. The main objectives are to obtain the resistance parameters of PV modules by adjusting I-V equation and voltage equation of diode and to find the relationship between resistance parameters and power. Firstly, values of serial and parallel resistance at maximum power point are concluded. Secondly, the curves of serial and parallel resistance are obtained when load increased from zero to infinity. Thirdly, the relationship between parallel resistance and power is obtained and the influence caused by ignorance of resistances is analyzed. Finally, simulation and experimental results of photovoltaic module show that the method is correct and feasible

کلمات کلیدی:

PV Module, Diode, Serial Resistance, Parallel Resistance

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