

عنوان مقاله:

The Effect of Temperature on Photovoltaic Cell Efficiency

محل انتشار:

اولین کنفرانس رویکردهای نوین در نگهداشت انرژی (سال: 1390)

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خلاصه مقاله:

As a great potential renewable energy source, solar energy is becoming one of the most important energies in the future. Recently, there has been an enormous increase in the understanding of the operational principle of photovoltaic devices, which led to a rapid increase in the power conversion efficiencies of such devices. Solar cells vary under temperature changes; the change in temperature will affect the power, output from the cells. In this paper a relation between efficiency, sun radiation and temperature is proposed and under cloudy climate is simulated and .temperature ambient PV module for a desired efficiency can be obtained

کلمات کلیدی:

Photovoltaic Cell; PV Efficiency; Temperature; Cloudy Climate

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