Abstract

Energy which comes from natural resources such as sunlight, wind, rain, geothermal heat etc. is called renewable energy. Renewable energy is very important because the non-renewable energy such as petrol, diesel, and fossil fuels are limited. Solar energy is the most easily available source of energy. Most important it is non-conventional source of energy because it is non-polluting, clean etc. The influences of temperature and irradiance variations on the different solar cell parameters are studied. It is useful to understand the effect of temperature
and irradiance on the solar cell and module performance, in order to estimate their performance under various conditions. The efficiency of solar module is directly related with the solar parameter and therefore solar parameter changes and affects the efficiency of solar module.

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Index Terms
Keywords
Solar Cell; Temperature; Open Circuit Voltage; Short Circuit Current; Irradiance; Efficiency.