EFFECT OF SERIES-PARALLEL CONNECTION AT DYE SENSITIZED SOLAR CELL CIRCUIT TOWARD ELECTRIC ENERGY CONVERSION EFFICIENCY

Name : Kholid Ramadhani
NRP : 1405 100 053
Advisor Lecturer : Prof.Dr.Syafsir Akhlus,MSc

Abstract

This research study related to the measurements of current and voltage output and efficiency of dye sensitized solar cell (DSCC) in order of simple connectivity of series-parallel combination. In which the dye used in solar cell, was derived from mangsi (Phyllanthus reticulatus poir).. The solar cells as used in every combination is four cells. Electric energy conversion efficiency have been obtained in DSSC combination number 1, combination 2, combination 3 and combination 4 are 0,1619%, 0,1285%, 0,2103%, dan 0,1325%. Highest electric energy conversion efficiency is 0,2103% which has been obtained in DSSC combination number 3 on the first day of measurement.

Keywords : series-parallel combination, dyed-sensitized solar cell, Phyllanthus reticulatus poir.
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