

Robust control of MPPT of a PV cell

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Abstract— This work presents a robust control approach for Maximum Power Point Tracking (MPPT) of a standalone solar Photo Voltaic (PV) system, in order to boost its efficiency. For testing the algorithm, it was considered an 80W stand-alone solar PV cell. In order to improve the efficiency of the charge controller, the proposed control strategy follows the maximum power point output.

Keywords— PV system; modeling PV cell; robust control; MPPT

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