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This paper describes new techniques of maximum power point (MPP) tracking for solar water pumping system. The latter system consists of a PV array, a DC/DC buck converter and a universal motor coupled to a centrifugal pump. A conventional hill climbing method is employed to seek the MPP using the motor-pump rotation speed or the pump outlet pressure information. Experimental results are presented and a comparison with conventional algorithm which requires both voltage and current sensors is provided.



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