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**Daniel L. Hartl, Elizabeth W. Jones**

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web jan 1 2012 in this paper we present a design and simulation of an efficient solar charge controller this solar charge controller works with a pwm controlled dc dc converter for battery charging

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web dec 16 2019 the scc is designed based on the arduino microcontroller which has the role of controlling the circuit and producing pwm signals to regulate the dc dc converter several tests were conducted to validate the efficiency of the mppt algorithm the scc device succeeded in increasing efficiency up to 52 on the low irradiance level