

Solar cell battery charger by MPPT

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Abstract

This is a project to design and build the battery charger system with MPPT. The system MPPT will track the power peak and composed of two main parts. The first main part is piece of hardware, by the charging circuit and the current and voltage sensors. The second main part is the software; it has a microcontroller, a processor and LCD screen is displayed. For this to work, it will start to get the output from the sensor in comparison, the microcontrollers; to find the maximum power of the charger at the time. The experiment is compared with charger MPPT systems and charger conventional. The results show that, charger with MPPT systems work better than 30%.