

Controller Circuit Construction for Solar Charger

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Abstract

Battery Charging technology has been developed over the past several years. The aim of this study is to construct a low cost, efficient and compact controller circuit for solar charger to charge 12 V lead-acid batteries. This circuit is actually a low dropout voltage charger and it uses a P-channel MOSFET linear regulator and a simple differential amplifier. This controller circuit for solar charger performs as a current and voltage regulation and also cuts off over voltage. This circuit has features like the over voltage, over charge and reverse current protection from damage battery and uses constant voltage and constant current of charging.

Keywords: Controller, solar charger, constant voltage, damage battery

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