

INTELLIGENT SOLAR TRACKING AND CHARGE CONTROLLER USING MPPT ALGORITHM

A PROJECT REPORT

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Abstract

The soaring demand for energy has become very vital in the present day world. The increase in population has led to the increase in usage of electricity. Thus, the need for storage of energy arises.

Our project implements an intelligent solar tracking system that positions the solar panel automatically, unlike the fixed panels commonly available today. The proposed device verifies the input from the sensors and positions the solar panel by tracking the sun in an angle such that maximum power is produced by the panels. The device also displays the charging level of the battery and protects them from voltage fluctuations.

It finds applications in industries, street lights, agriculture purpose etc.