

ABSTRACT

The aim of developing this project was to direct the solar panel according to the direction and position of the sun. The main advantage of the system may help to harvest much due to that the increase of concentration of sun light to the solar panel all the time.

To achieve the solar tracking process, solar panel should be mounted on spindle of the motor which must move in the direction of the sun. The OP Amp 358 is used as voltage comparator since used to compare the reference voltage which is sated by using variable resistor with the voltage between LDR and a fixed resistor which was resistance change as light intensity falling on LDR varying. Switching the motor antagonistically was achieved by H-bridge switching circuit was used to switch the motor in either direction. This project is reliable, durable, accurate, affordable and efficiently way of controlling a motor for tracking sun light.