

SOLAR POWERED CHARGER

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ABSTRACT

Solar powered charger depends on three main components which is solar panel, IC 7805 and PIC16F877A. This component can generate electricity when the sunlight strikes the solar panel. Thus, the solar panel converted sunlight to electricity. To charge the mobile phone battery, the USB wire must be connected to the circuit. The on or off button were not used to charge the battery, so as the USB connected to the mobile phone, the battery will charge automatically. The use PIC16F877A is to program the LCD and LED to follow the instruction. The LCD will be display voltage of the battery and the LED will turn on when the PIC is on. The solar powered charger can be place at any kind of place as long as this device can detect sunlight. Moreover, this device can be used when travelled for a long time and no place to charge mobile phone battery.

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