PROJECT REPORT ON

POWER DELIVERY DESIGN FOR HIGH SPEED USB USING SOLAR SYSTEM

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ABSTRACT

The objective of this project is to design a set up that delivers power to the externally connected USB port, by using the freely available solar energy. Through this USB port one can charge the gadgets like cell phones, video cameras, I-pods etc. we use AT89c51 microcontroller which is a low power, cost efficient chip manufactured by ATMEL having 8k bytes of on-chip flash memory. The microcontroller turns on the motor and it is essential to run the real time clock (RTC). The use of easily available components reduces the manufacturing and maintenance costs. The design is quite flexible as the software can be changed anytime; this makes the proposed system to be an economical and a low maintenance solution for charging the gadgets.

This project is user friendly, reliable, and it is highly efficient. It is highly economical as we do not make use of the conventional electrical energy. Power saving is also another important feature of this design. Portability and eco friendliness makes this project more stable. This project is designed to be all practical; it has got ample scope for future developments.