

ABSTRACT

The aim of this project is to design a battery charger using comparator of ICs TL072 , and more than two diodes that can be used to run the system of charging automatically and to protect the damage of the battery by using voltages from 12v-24v in a safe manner. To ensure providing correct amount of charging current in increasing the charge efficiency by decreasing the charge rate i.e. regulated charging current to battery being required to be charged. Also to protect the battery from overcharging after being fully charged hence maintaining the battery performance in its efficiency and life span of the battery.