

Abstract

With today's technological advances, the use of mobile phones have all these lay circles. In the other words, mobile phones have become familiar in the society so that communication becomes easier nowadays. Mobile phone requires electrical energy to activate with the help of the charger. Most of the electricity sources used come from the material - organic materials. With the development of technology, power sources can be obtained from the hot sun. In this final project proposal, the authors use the heat of the sun as a source of electrical energy. We all know that solar energy is abundant in the world - and is predicted to bulk out billions of years. To change the heat of the sun into electrical energy used Photovoltaic cells.

The workings of the charger is in principle the same as mobile phone chargers in general, which distinguishes only source of electrical energy used. Output of Photovoltaic cells for DC 16V/600mA then be processed further in the charger block to produce the output of DC 5.3 V/600mA. The method used in this final project is to conduct experiments to get the output of the DC charger for 5.3 V/600mA. All activities of this experiment will be conducted in the laboratory electronics.

Therefore, this final project can be expected to produce a mobile phone charger with Photovoltaic cells based on who has the output voltage of 5.3 volts and output current of 600 mA. This charger can also treat energy to decide if it is full or not so avoid causing internal damage to the phone itself.

Keyworld : Handphone, sel Photovoltaic, charger handphone