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Solar mobile charger circuit diagram pdf windows 10

Window solar charger of 0.68-inches of thickness is stuck to the glass window that is present inside with the photovoltaic panels and charging cable is fed to portable device. Solar Powered Window Charger Project: The Window solar charger is stuck to the glass of a window as it has silicon pads on the ABS plastic case and this set up uses solar energy to charge your mobiles. An Integrated Circuit IC 741 is configured as a comparator and is appropriately stabilized from 48V high input using Zener diodes and potential divider network across its supply and input pins. Below is one of the examples of the equipment which works with solar energy or sunlight. This becomes a problem when we are traveling or at a place where electricity is not available. It only produces energy and charges the device. Solar panels are used for charging batteries by converting the sunlight in the form of electricity. To accomplish this we just need a solar panel, but there are lots of types and ratings in solar panels to select from. The battery cells to be charged shows the circuit module of solar charger with voltage. Window clings solar charger is eco-friendly process as solar energy is used for charging and it contains 5.5V and 1800mAh Lithium battery which can be rechargeable with input and USB output cables. Since providing 1A and 5V using a solar panel would make the project bulkier and expensive, we decided to design the system for more than 70% efficiency. We will be using three of these panels which will be connected in parallel, as we all know connecting it in parallel will keep its voltage constant and sum up the current rating. Further, this project can be enhanced by using time programmed dusk to dawn switching based on latitude and longitude of a specific place. Disadvantages: The solar Window charger requires light to work means sunlight is needed for the device to get charged. Arduino Based Solar Street Light by Edgefxkits.com The intensity of street lights is kept high during the peak hours. The use of solar energy is not a new technology, but utilizing this solar energy to charge cell phones is a new innovation. We first connect the phone to a normal Charger (AC mains) and found that my phone requires about 1000mA for charging as shown in the screenshot below.ADVANTAGE OF SOLAR MOBILE CHARGERSolar power is pollution-free and causes no greenhouse gases to be emitted after installation.Reduced dependence on foreign oil and fossil fuels.Renewable clean power that is available every day of the year, even cloudy days produces some power.Return on investment unlike paying for utility bills.Virtually no maintenance as solar panels last over 30 years.Creates jobs by employing solar panel manufacturers, solar installers, etc. The electricity produced by the solar energy is utilized by the charger for getting charged itself and later this charged energy will be transferred to the mobile. High Intensity Discharge lamps (HID) used for urban street light are based on principle of gas discharge, thus the intensity is not controllable by any voltage reduction method as the discharge path is broken. This app will let us know how much current is drawn by the battery for charging. This will help us with charging the phone as soon as possible. So you can contact with the subject of your specific project. The PV panel enclosed by silicone pads of ABS case. It can also be interfaced to a Light Dependent Resistor to follow the switching operation precisely. But, all of them suffer from one common drawback of charging them at regular periodic intervals. An Arduino Board, which is programmed by using Arduino programming language is interfaced with a set of LED's to provide different light intensities at the different times of night by using PWM technique, for energy saving for solar based system, using a charge controller for battery charging, overload and deep discharge protection conditions. Thus, we have selected the 5.5V 245mA solar panels. Solar Window Portable Charger contains an ABS plastic case and a solar panel. As awareness for solar energy is increasing, more and more individuals and institutions are opting for solar energy system. If in case you are feeling to buy a project for SOLAR MOBILE CHARGER, simply contact us. Direct sunlight exposure of mobile for charging does not harm the phone. Also using renewable energy sources is quoted as the next generation fuel for all our electricity requirements. It can be used to charge mobiles, laptops and various electronic equipments. Thus, the street lights perform the switch ON of the light at the dusk and then switches OFF at the dawn automatically with the help of MOSFET driver. Solar energy is also used in many other applications. Features: It consists of built in technology to protect the device from over-charging and over-heating. As the traffic on the roads reduces slowly during late nights, the intensity of the light reduces progressively till morning to save energy. Bigger battery chargers are utilized for digital cameras, laptops, MP3 and iPods. In our case, the load is the mobile and it requires about 5V and 1A to get charged in its maximum efficiency. Circuit Diagram of Solar Powered Window Charger The solar charger circuit diagram is as shown above. Applications: An iPhone and iPad can also be charged by using this technology. After the voltage gets full charged along with the solar panel, power resistor is switched on and it ends the charging of output solar panel voltage. A charge controller circuit is used to control the charging of whole circuits. It is cost effective as the cost is not involved once the charger is purchased. To buy more similar project call 8528646666 and check our projects lists for the latest electronics final year projects. The main advantage with this solar window charger is that it does not require any external power for charging other than solar energy. Instead of a Zener diode we can also take two normal diodes in forward bias direction and cathode that is connected to the ground. Thus, the Window solar charger is stuck to the glass of a window and the silicon pads on the ABS case utilizes solar energy for charging your phones. Finally, the battery gets charged and charges the phone. White Light Emitting Diode (LED) can replace the HID lamps where intensity control is possible by pulse width modulation. In case of the XDModo Solar Charger, its surface will be adhesive and it will get stuck to any glass surface or window and later by keeping towards the rays of the sun the mobile gets charged. It contains 1300 mAh Lithium ion battery which can be rechargeable as input and it takes 13 hours to complete its full charging of battery with the exposure of sunlight. The process continues for every day. The solar panel supplies nearly 140 mA -200mA or more at 8 times 0.45 V = 3.6 V. The Window solar charger contains an LED charge indicator on the bottom edge which shows a red light when it is charging and turns green light when its battery is full or the device is powered up, and in turn, helps the economy.Excess power can be sold back to the power company if the grid is tied.Ability to live grid free if all power generated provides enough for the home/building.It can be installed virtually anywhere; in a field to a building.Use batteries to store extra power for use at night.Solar can be used to heat water, power homes and building, even power cars.Safer than traditional electric current.Efficiency is always improving so the same size solar that is available today will become more efficient tomorrow.Aesthetics are improving making the solar more versatile compared to older models; i.e. printing, flexible, solar shingles, etc.Federal grants, tax incentives, and rebate programs are available to help with initial costs.DISADVANTAGE OF SOLAR CHARGERHigh initial costs for material and installation and long ROI.It needs lots of space as efficiency is not 100% yet.No solar power at night so there is a need for a large battery bank.Some people think they are ugly (I am definitely not one of those!)Devices that run on DC power directly are more expensive.Depending on geographical location the size of the solar panels vary for the same power generation.Cloudy days do not produce much energy.Solar panels are not being massed produced due to a lack of material and technology to lower the costenough to be more affordable.Solar-powered cars do not have the same speeds and power as typical gas-powered cars.IN CASE OF IMMEDIATE PROJECTS FOR FINAL YEARAll of the above; If this article is not working for you. Photo Credits: Circuit Description of Solar Powered Window Charger The following diagram contains 48V solar battery charger circuit with low and high cut off features and the below points describes the functioning of the circuit. LED lights are the future of lighting, because of their low energy consumption and long life they are fast replacing conventional lights world over. So, in this project let us learn how easy it is to Make Our Own Solar Cell Phone Charger and also how it works.Materials Required:-Solar panel 5.5V 245mA (3 Nos).5V Boost converter module.Switch.Masking Tapes.Wires.Soldering kit.Working Explanation:- The primary principle of this project is to convert solar energy into electrical energy. Electronic gadgets like Mobile Phones and iPods solar mobile charger have made our lives a lot easier. Solar Powered Window Charger For boosting energy to battery, a mini USB input and USB output ports are present. To know about more information on solar chargers, visit our website or comment us below for any queries. Charging the equipment with the help of solar window charger takes more time when compared with general charger. This is due to 0.3 to 0.4 V drop in voltage across Schottky diode D1. Charge voltage set on P1 extends the limit of voltage of 0.3-0.4 V. Solar Mobile Charger Advantages: The solar panel stores energy and these solar battery chargers are easy to carry. To know this we used an Android App called "Ampere". Monocrystalline, Polycrystalline, and Amorphous are the three types of solar panels in which we will be using the Monocrystalline one since it is commonly available and cheaper than the other two.Concept of the Mobile charger:-In order to decide the voltage and the current rating of our panels, we have to consider the voltage and current that would be consumed by the load. Efficiency of photo-voltaic panels had increased. Solar cells that are connected in eight series will become the solar panel for the project. It has an output of 5V/500mA at max. And for your convenience; that we provide all BTech mechanical engineering final year projects.Note we also have the huge electronics projects for the final year student. Hence, the final voltage and current rating of all the three modules will be 5.5V and 735mA (245+245+245).Testing the Solar Cell Phone Charger:-The performance of the charger depends on the amount of current it could deliver to charge the phone. The intensity control helps in saving energy during late nights while traffic density on the streets is low. The circuit around T2 observes the Voltage across the batteries. Solar energy is a renewable power.Here we are explaining about solar powered window charger project. Solar energy used to charge a phone is the new idea and the XDModo Solar Charger is one of the gadget that uses solar energy for charging purposes. Arduino based Solar Street Light: The aim of this project is to design an LED based street light with auto intensity control using solar power which is generated from solar cells. The solar window charger is easily attachable to the window and the phone is exposed to sunlight and it charges your electronic equipment. And we will lead you, to get that kind of project as soon as possible.

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