

User Manual of Solar Laptop Charger

一、Products introduction:

Multi-functional Solar Mobile Power is one of the newest solar mobile power in our company. It has intellectual adaptable patented technology, can adjust the different voltage and the electric current; it is mainly developed for laptop power. Five independent output voltage lines, it can charge different digital products, almost covering 90% of digital products. Also it brings convenience to people when in business trip, traveling, long-distance rides in a carriage and ship and the wild work when possessing emergency power supply. It is safety, good compatibility, large capacity, small volume, long life, a perfect good.

二、Technical Factors:

Solar panel: 18V 180mA
Battery: Polymer lithium-ion battery
Capacity: The total Capacity is 12000mAh
Static state consumption is very low, stand-by time is very long.
Charging input nominal Voltage :Using matching charger AC adapter, the range of voltage:16V-24V.
Output voltage: USB: 5.5V, USB 5 PIN: 5.0V, DC: 9V,10.5V,12V,16V,19V.
Output current: 5V/700mA : 5.5v 700mA, 9V/1A, 11.1V/2A, 12V/3A, 16V/3A, 19V/3A;
Output: 70W (Max)
Temperature: -10°C-50°C
Volume: 250X100X35MM
Weight: 0.48KG

三、Specification:

1. Input connection: DCΦ4.0.
2. Output connection: DCΦ3.5connection and USB connection.
3. Material: Plastic (ABS), Fireproof material.
4. Different output can charge different digital products at the same time.
5. LED charging state, the range of the output:16v-24v

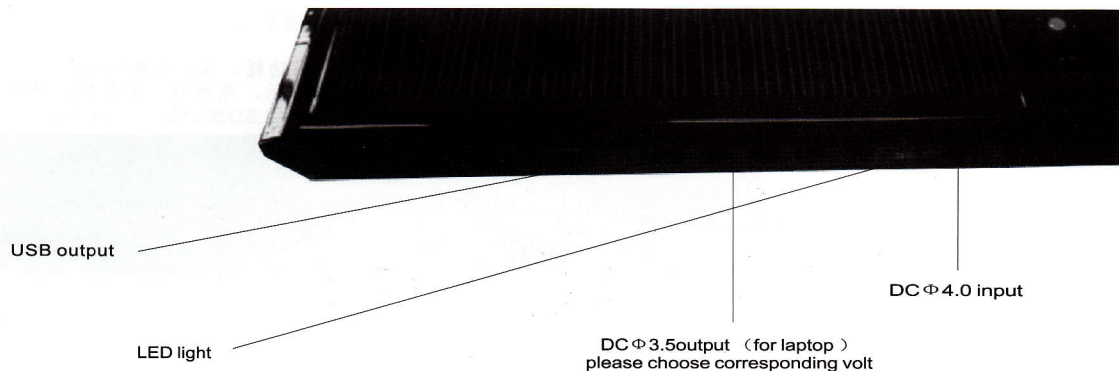
四、Field of application :

It's suitable for many kinds of laptop, and many digital products: mobile phone, PDA, DC, digital camera, digital learning machine, MP3, MP4, PSP game, mobile DVD.

五、Function:

1. stability: Use import high quality environmental protection lithium-ion electricity core, it can be used for more than 300 circulation times of charging and discharging, discharging transfer efficiency is more than 80%. It can keep a long time to charge and discharge with steady performance.
2. the standard process of charging power: precharge, CC, CV, recharge
3. Intelligence: Intelligent design, has protection for over charger, over release, over current and short-circuit. Its protection battery has the function of checking the state of its power, safety output port can be automatically locked at the appropriate time.
4. Portability: Personalized design; Five different standalone output ports make the operation simplified and avoid pressing wrong keys by mistake.
5. Usability: Universal suits and allocation, that is practical and convenient, which meet the need of charging different kinds of digital products and help to improve its using efficiency.
6. Environmental protection: Using the solar energy environmental solar panel to transfer solar into power and then the power is stored in the inside lithium battery. It is environmental production and a small hand for your digital products when you are in long journey or tourism.
7. discharging output: 7 output ports: five DC ports and two USB sockets, but five output working at most at the same time, three DC(12V-19V output ports can not be working at the same time) and two USB sockets, please note that the the greatest output power is only 70W, if the output power excess 70W, the DC output port inserting in the later time will be automatically closed down.
8. Automatically turned off without a load: If there is no load(such as digital products) working with it within two minutes, the charger will automatically turned off, and go to sleep state, so that the battery will be in static power consumption, ensuring its stand-by-time.
9. If inserting power when the charger is in the powering off state, USB socket will have output, DC port has no output, the LED shows red state, and the charging state LEDs will work in a rolling way. When it is charged power in a corresponding state, the corresponding power degree LED will stop rolling. If the charger has full power, five LED will working at the same time and they will all stop rolling. If inserting power when the charger is in the powering on state, the LED show yellow state, and the charging state LEDs will work in a rolling way, DC port and USB will output at the same time.

六、Operational guidelines:



USB output (for Mobile phone) : USB Output (Mobile Phone)
DC Φ input: DCΦ4.0 Input Connection
DC Φ output (camera product or laptop) : DCΦ5 volt)
LED display : LED Display capacity

1. Starting: Hold the key "press" three seconds, LED will check the storage capacity automatically. five LED charging state will flash from left to right for once, and they flash at the same time for once, and then they show the current storage capacity for three seconds, at last, the five LED will automatically extinguish after showing the storage capacity itself. If the LED display green state, it shows the charger is off.
2. Close-down: Hold the key "press" three seconds, the LED extinguishes, then it close-down, the electric circuit stop working.
3. Input charge: this process is charging power transferred to the battery which is built in the charger.
4. A, using the adapter to charge: using the adapter connecting the input port(DC@ 4.0), red LED displays. Different voltage, different current, the rang for the input voltage is: 14v-24v, the higher voltage, the lower current. When the five LED show green, it is in a rolling way. LED is on and shows charger condition
- B. Solar Panel Charge: Open the solar energy board, let the solar energy face the sunlight then to charge. The Red LED is on and shows the input charge condition.

七、Notice:

1. Before using this product, please firstly use the external power supply to charge the battery.
2. In order to avoid damages to this product or your own digital products, please do not use voltage which excess the range of voltage specified in the products.
3. Avoid exposing in the high temperature, high heat (means above 60?), moist and corrosive environment, and avoid using this product nearby the fire circumstance.
4. When its surface is wet, please clean it with the dry towel, do not toast it under the high temperature.
5. Do not let water or oil into the product, do not use the sharp object to press the keys or the output/input port.
6. No disassembling this product at will.
7. If the indicate light is not working, or the LED is not display, The reasons may lies at: the state of power in its battery is not enough, or the inside battery's protection circuit is working as to stop its work, so now you must charge the battery then it can work.
8. in order to activate the lithium battery built-in, it is necessary to charge the article at least 12 hours the first three times.
9. this product support charging while the output power to digital products, but please note that inside lithium battery will be adversely affected in some degree, so please avoiding doing so as possible as you can.