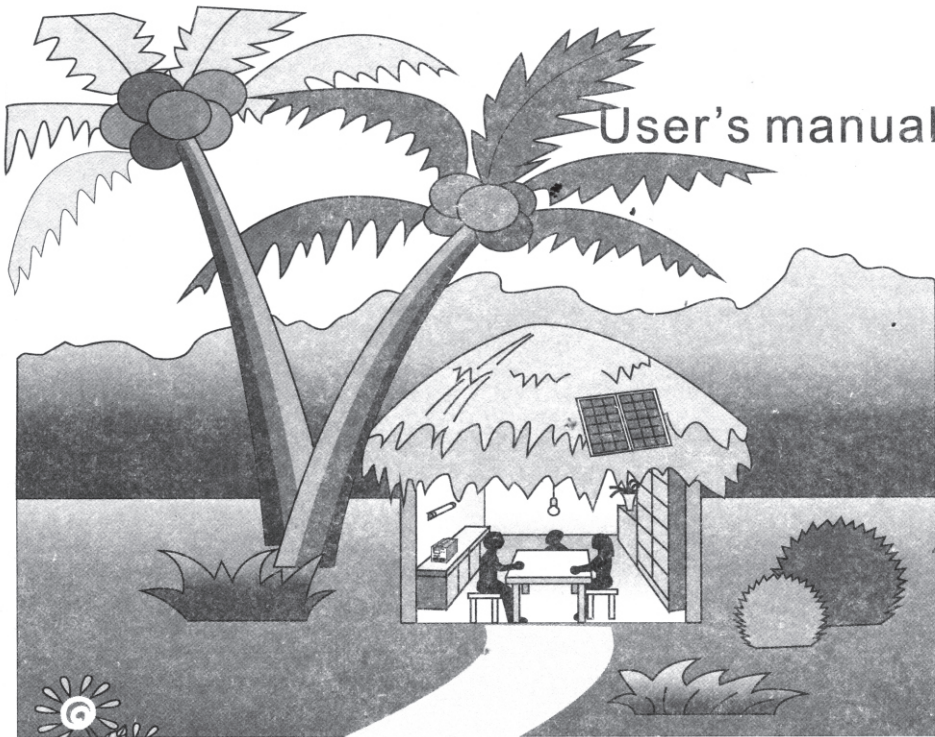


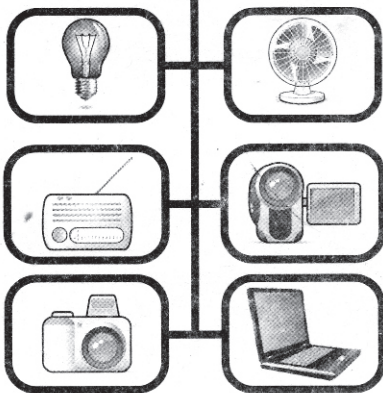
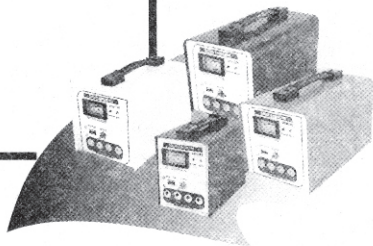
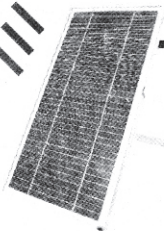
User's manual



Please read this before you use this product



CE Rohs



certificate of quality

Product name :DC solar power system

Model:

Inspector:

Date of manufacture

Place of origin: China

This product is qualified after inspection in the factory.

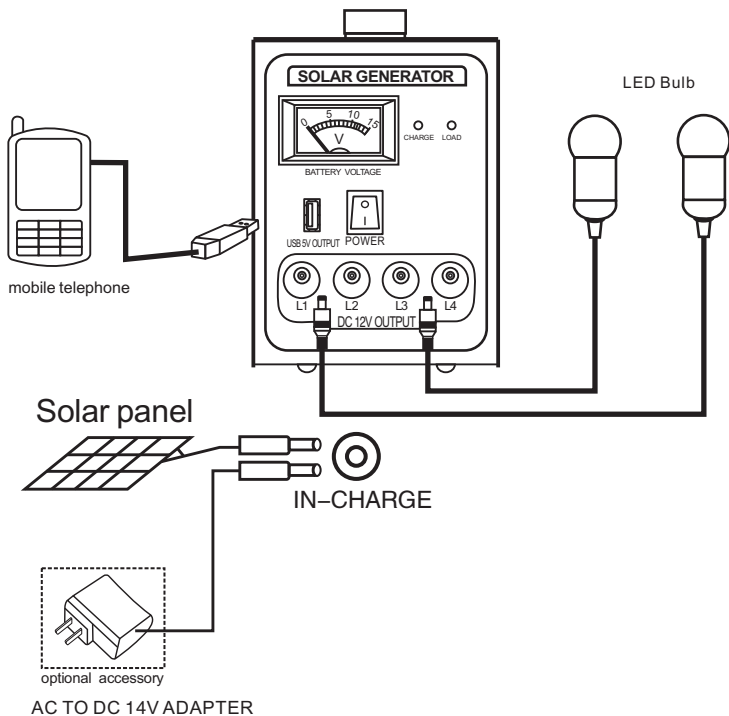
1.Safety:

- 1.1 Avoid using the machine under such conditions as having flammable or explosive or erosive gas and too hot places.
- 1.2 This system equips with solar panel and battery.Under the condition of fully charged, it can supply power for 2pcs 3W LED lights and charge the mobile. (the parameters differ according to the different geographical, using condition and using time)

SOLAR GENERATOR

model parameter	S1206 Soller generator	S1207 Soller generator	S1209 Soller generator	S1212 Soller generator
Battery capacity	4AH/6AH	7AH	9AH	12AH
Solar panel power	6W	12W	16W	16W
Rated charging current	1A	2A	2A	2A
Rated discharging current	2A	2A	2A	2A
Rated working voltage	12V	12V	12V	12V
Solar panel voltage	≤25V	≤25V	≤25V	≤25V
Float charging	14V	14V	14V	14V
low voltage disconnecting point	10.5V	10.5V	10.5V	10.5V
Low voltage reconnecting point	11.5V	11.5V	11.5V	11.5V
No load loss	≤8mA	≤8mA	≤8mA	≤8mA
USB port current	≤500mA	≤500mA	≤500mA	≤500mA
Working temperature	-10℃ ~50℃	-10℃ ~50℃	-10℃ ~50℃	-10℃ ~50℃
Storage temperature	-15℃~40℃	-15℃ ~40℃	-15℃ ~40℃	-15℃ ~40℃
Humidity requirement	≤90%, no condensation	≤90%, no condensation	≤90%, no condensation	≤90%, no condensation
System working time	2pcs 3W LED lights working for 4hours,charging mobile for 4hours	2pcs 3W LED lights working for 6hours,charging mobile for 7hours	2pcs 3W LED lights working for 6hours,charging mobile for 7hours	2pcs 3W LED lights working for 10hours,charging mobile for 11hours

2.Installing and operation



- 2.1 Open the box and take out the accessory and machine. Put the solar panel outside and make it face the sun; connect the cable with the machine indoor; put on the switch. If the battery voltmeter has display and red charging indicator is on, it means the solar panel is charging the battery normally. (If this is the first time you use this machine, please charge for 3 continuous days and then discharge the load)
- 2.2 If the battery voltage is higher than 10.5V, the load indicator will be on. Then insert the LED lamp into the socket of the DC output on the machine. And insert the mobile into the USB connecting port.
- 2.3 This machine has anti-discharging function(prevent battery from discharging to solar panel), so please make sure the solar panel is always connected with the machine to assure the battery can get more power. If you use the battery for long, it would cause the battery to low voltage condition (load indicator off, no load output. The voltmeter showing at 10V). If this happens, please use the solar panel to charge the battery for 10 continuous hours and restart the machine to recover the power supply.
- 2.4 If the battery voltage is higher than 14V, the charging indicator begins to flicker, and it means the battery has been in float charging state.
- 2.5 We have fully considered the using condition of the users. The cables' length for solar panels and LED lamp are long enough, so please do not lengthen them or change them at random. But if you have to change them. please make sure the area of the cable connecting solar panel is not less than 0.5mm^2 , while for LED lamp, not less than 0.3mm^2 , All the connecting cables have negative and positive part, please distinguish them.

3. Breakdown and disposal

- 3.1 Solar panel indicator off: please check whether the solar panel is facing the sun; whether the machine switch is on; whether the battery is in full capacity state; whether the connecting of the solar panel is short -circuit or reversed.
- 3.2 No load output and the load indicator off: Please check whether the battery is in low voltage, whether the voltmeter showing is less than 10V and if it so, please charge the battery for 10 continuous hours and then use it.
- 3.3 No load output, load indicator on: Please check whether there is bad connection of the load, then connect again. Check whether the load is overloaded, short-circuit, and disconnect the load for 1 minute, then connect again.

4. Maintenance:

- 4.1 This system should be used indoor. Please do not expose the machine into sunshine and wet places. If there is water inside by accident, please turn off the switch and dry the water inside and then you can use it.
- 4.2 If you are not going to use this machine for long, please turn off the power switch and charge the battery every month (battery voltage higher than 14V.)
- 4.3 Please do not make the battery in the state of low voltage. Otherwise it will shorten the using time of the battery. After one time of low voltage, please charge over 2 days and then use it.

5. Quality Assurance

5.1 Quality assurance should be carried out according to the following rules:

- The product is guaranteed of replacement, returning and repairing within 7 days after sale.
- The product is guaranteed of replacement and repairing within 1 month after sale.
- The product is guaranteed of repairing within 12 months after sale.

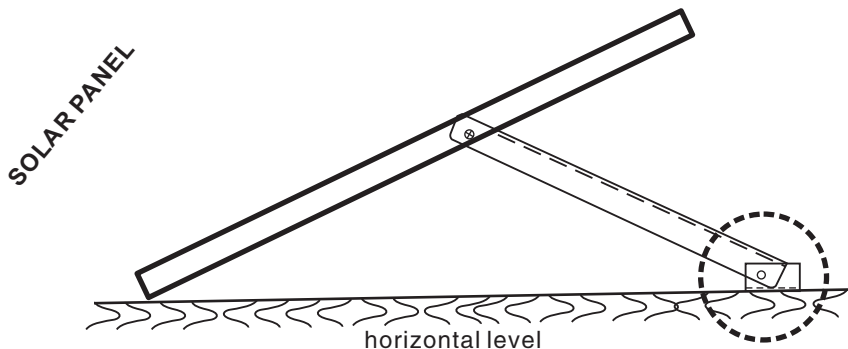
5.2 If it is not possible to identify the using date of the controller, we would refer to the ex-work date, and prescribe 18 months as the warranty period. We need to charge beyond the warranty period. The controller can be repaired for life no matter when and where you use it.

5.3 If the controller is damaged by the following causes, we need to charge even if it is in the guarantee period:

- Do not operate according to the user's manual.
- Use the controller under the condition which is beyond the using standard and technical requirements.
- Repair by yourself or reform by yourself.
- The inappropriate environmental condition which can cause the breakdown and aging of the apparatus.
- Improper carrying or storage.
- Regarding to the service of replacement, returning and repairing, you need to retreat the product to our company, and we decide whether to replace or repair after we make clear who should be responsible.

5.4 We will not note if there is any change of this product.

6.Solar Panel Installation diagram



Customers have to install the connecting part between the solar panel & bracket;
the referring part inside the dotted line circle is the supporting base for solar panels