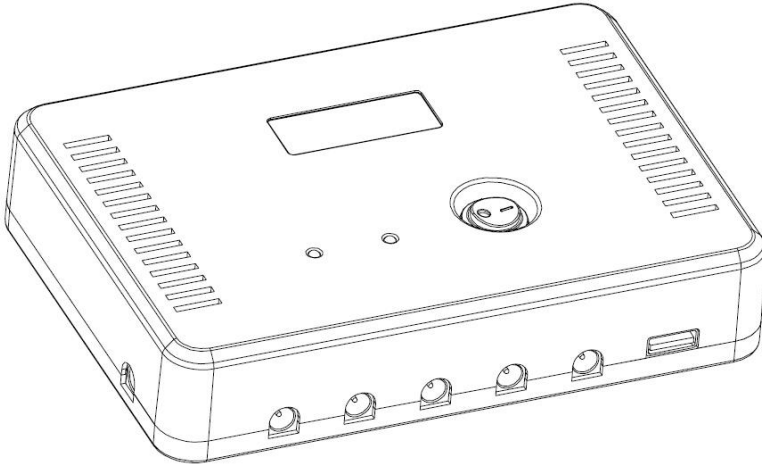

Specification of Solar Power System



I . Properties of product

1. This system is equipped with intelligent control system of microprocessor and special control algorithm, which is small DC power system designed for power supplying of outwork, home use, camping in remote area and power shortage region , and so on.

2. The circuit uses a high-performance, high-precision 10-bit ADC MCU as the master, with battery overcharge, over discharge, overload and short circuit protection with unique electronic anti-reverse protection, low-power standby, USB output, light output overload protection, charging, discharging separate functions.

DC 7.43. This system is pure DC output system, one USB 5V output port, five V output port.

II. Function Characteristics

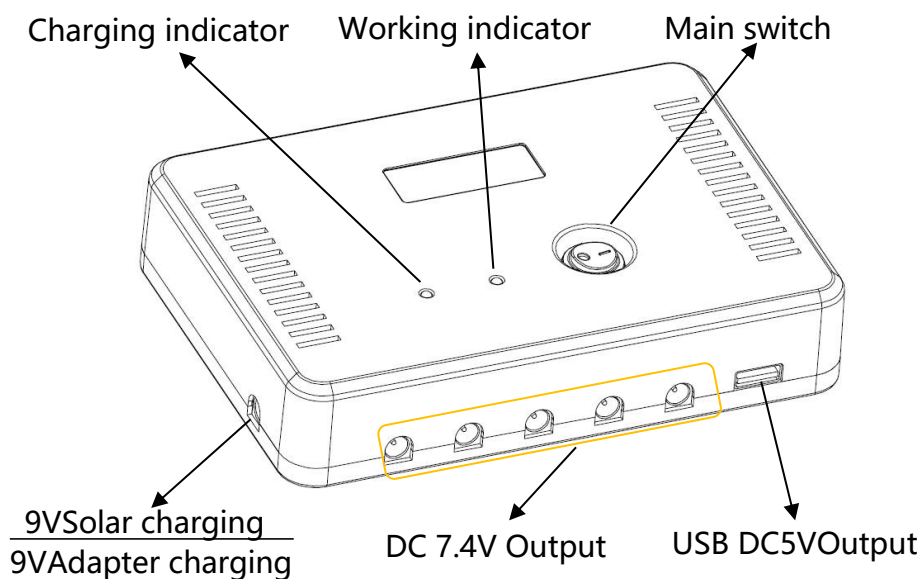
1. Using SCM as the master, to achieve a battery charge and discharge of the intelligent control, overcharge, over-discharge protection, short circuit protection, when the load is overloaded, the system will automatically shut down, automatically return to normal after a few seconds, effectively extending the battery life, battery over-discharge voltage rise control.

2. Ultra-low power standby function: When ON / OFF switch is in the OFF state, the product enters a low power state.

3. USB Output: When charging mobile phone/MP3/MP4/digital camera, the output current reach above 5V500mA.
4. DC7.4V Output : When DC7.4V output current exceeds 2A, overload protection start, output will automatically shut down (After 10 seconds automatically return to normal) .
5. Charge and discharge independent function: charging, discharging without disturbing each other, can realized discharged while charging.
6. Charge and discharge indicate function: mornitoring system charge and discharge status at any time.when charging,charging indicator turns red, when discharging, working indicator turns blue, when system undervoltage protection(over-load protection). working indicator turns red.
7. When this unit solar charger or adapter to charge, turn off the ON / OFF switch, don' t turn on any load in order to reduce the charging time.
8. This product has over-charging and short circuit protection function(battery and system double protection), when over-discharging and undervoltage, indicator light turns red.

III. Operational approach

1、 Function indication



2. Charging operation

(1) The solar panel (9V) is connected to the input port of the solar charging system, charging indicator lights red, indicating that the state of charge is connected.

(2) Adapter (9V) input connector into the charging port, red charging indicator indicates the charge status of the connection is normal .

3. Mobile phones and digital products charging operation

Phone or digital products charging USB line access to the USB connector on the system box, mobile phone or digital products to enter the state of charge, USB interface Output voltage DC 5V, the output current reach above 5V500mA.

4. Output with load

To bring DC6V LED lamp load, insert the load can be inserted into the DC 7.4V OUTPUT port, when the load current exceeds 2A, the system will automatically shut down all output .

IV. Specification Parameter

Poly solar panel	≤9V/10W		
Output Voltage	DC Output amount : 5 x DC 7.4V , 1 x USB 5V		
Built-in battery	≤7.4V6000mAH (18650)		
Discharge time	determined based on the load required to power		
Rated charge current	1A	Rated discharge current	2A
System voltage	7.4V	Empty load loss	< 200uA
Overpressure protection	9V	Enhance the charging voltage	7.2V
Brown-voltage	6V	Over-discharge voltage	5.6V
Control method	Charge; PWM pulse width modulation		
Operating temperature	-10°C+55°C		
Protection circuit	Overcharge, overload and short circuit protection		

NOTE : specifically configured to prevail in kind.

V. TIPS

1. Before using the product, please read the product manual carefully
2. Do not meet the product specification shall use parts or appliances.
3. Non-professionals can not be allowed to open the machine for maintenance, to avoid damage to the product.
4. Note waterproof storage box must be stored in a dry ventilated place.
5. When using this system, do not use near fire or under high temperature conditions.
6. Before first use of the system, connect the battery after filling before use, built-in overcharge protection charge bad problems do not worry, you can charge a long time.
7. Rain or rainy season please save electricity, turn off the switch when not in use.
8. **If not used for long time, charge and discharge the system at least once within a month , otherwise Product life will be affected.**