

USER'S MANUAL

DC UPS SK-313
DC UPS SK-616

Thank you for choosing our DC UPS. Before operating this unit, please read the USER'S MANUAL carefully in order to make sure that the best possible performance is obtained.

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.

3. This unit is a pure DC output system, one USB 5V/2A output port, one DC 5V/2A output port, one DC 9V/2A output port, one DC 12V/2A output port, one DC 15V/1A output port, and one DC 24V/1A 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 and 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 5V2A.

4. Charge and discharge independent function: charging, discharging without disturbing each other, can realized discharged while charging.

5. Charge and discharge indicate function: monitoring system charge and discharge status at any time, when it charging, the charging indicator turns red, when it discharging, the working indicator turns green, when it under voltage, the working indicator turns red.

6. When this unit charge by solar or adapter, please turn off the ON / OFF switch, don't turn on any load in order to reduce the charging time.

7. This product has over-charging and short circuit protection function(battery protection, it need be activated by charging), when it undervoltage, indicator light turns red.

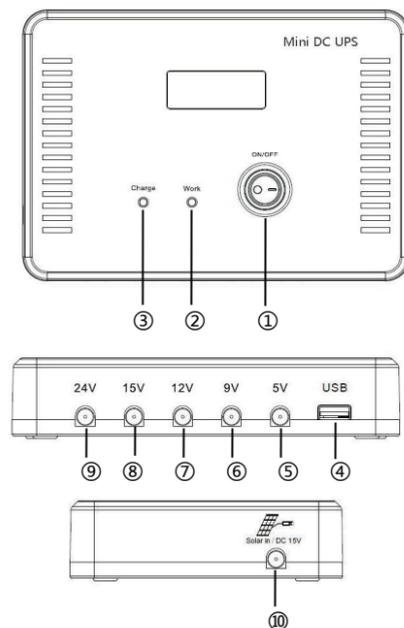
III. Operational approach

1、Function indication

- | | |
|-----------------------|-----------------------|
| 1) Main switch | 2) Working indicator |
| 3) Charging indicator | 4) USB 5V Output |
| 5) DC 5V Output | 6) DC 9V Output |
| 7) DC 12V Output | 8) DC 15V Output |
| 9) DC 24V Output | 10) Solar in / DC 15V |

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2. Charging operation

(1) The solar panel (18V) is connected to the input port of the solar charging system, charging indicator lights red, it indicating that the state of charging is connected.

(2) Adapter (15V) connector into the input charging port, the charging indicator light bright red, it means the charging status of the connection is normal .

3. Mobile phones and digital products charging operation

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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 charging, USB interface Output voltage DC 5V, the output current reach above 5V2A.

IV. Specification Parameter

Model	SK-313	SK-616
Output Voltage	DC Output 5V/9V/12V/15V/24V	
Output power(Max>)	24 Watt	
Built-in battery	2000mAH *3pcs	2000mAH *6pcs
Rated charge current	1A	Rated discharge current 2A
System voltage	11.1V	Power offer loss < 200uA
Overpressure protection	12.6V	Enhance the charging voltage 12.5V
Undervoltage	11.4V	Over-discharge voltage 10.5V
Operating temperature	-10°C+55°C	
Protection circuit	Overcharge protection (system protection)	
	Overload and short circuit protection (battery protection)	
Dimension	159*112*32mm	
Weight	0.31KG	0.455KG

NOTE : The specifically system configuration in kind prevail .

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V. Attention

1. Before using the product, please read the instruction manual carefully

2. Do not use the part or electrical appliance which do not meet the product specification.

3. Non-professionals can not be allowed to open the machine for maintenance, to avoid damage to the product.

4. Please pay attention to waterproof of the battery box, it must be stored in a dry ventilated place.

5. When using this system, please do not use near fire or under high temperature conditions.

6. Please get a full charge on battery before using the system in the first time, no need worry that the battery will become bad as there is a built-in overcharge protection

7. Please save electricity on rainy day or rainy season, turn off the switch when not in use.

8 . If the product does not used for long time, please do charge and discharge of the system at least once within a month , otherwise it may affect the normal use of the products.

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