

Key description:

Press the UP/DOWN key briefly and the voltage will be adjusted by default. Long press (fast increase/decrease) is supported.

Press and hold the SET button for 1 second to adjust the constant current value (current limit value);

Set and CV flash when adjusting voltage and set and DC flash when adjusting current.

Press the SET key briefly to change the display current A/power W/capacity Ah/energy WH/time h;

Press the ON/OFF key briefly to turn on/off the output power;

Press and hold the ON/OFF button for 2 seconds to change the display input and output voltage.

When DC is set, the constant current value will be adjusted by default.

When the LED is activated, a quick dimming can be realized by pressing the UP/DOWN key, which is very convenient!

## 2. Configuration interface operating instructions:

2.1. Press and hold the SET button for 3 seconds to enter the settings interface;

2.2. Adjust the parameter size via UP/DOWN key, support long press (Fast increase/decrease), briefly press the setting key to change the parameter to adjust;

2.3. On the OAH / OPH / OHP interface, briefly press the "ON/OFF" button to select the opening or closing of the corresponding function. If closed, it displays "----";

2.4. On the OAH/OPH parameter interface, press and hold the "ON/OFF" button to select the capacity range (9.999Ah/99.99Ah/999.9ah/9999Ah, 9.999Wh/99.99Wh/999.9Wh/9999Wh)

2.5. After setting the parameter, press and hold the settings button for 3 seconds to exit the configuration interface and save the configuration parameters automatically;

Note: After product protection, the output will turn off and the LCD screen will display the corresponding protection code (LVP / OVP / OCP / OPP / OAH / OPH / OHP). The power chip itself also has several protections. If the chip itself is protected, the EPO will be displayed.

### 3. This product has lock function:

Press and hold the setting button for 5 seconds to lock the set voltage and current to prevent malfunction. After locking, press and hold the settings key for 5 seconds to unlock.

### 4. Product usage:

4.1. It is used as a common up-voltage and down-voltage power supply with over-voltage/over-current/over-temperature/low voltage protection;

(1) Set the voltage value.

(2) set the constant current value (overcurrent protection value); (for example, if the constant current value is 3.00A, the maximum current can only reach 3A when using the product, And when the current reaches 3A, the LCD display will show the "DC" status, otherwise the LCD display will show "CV Status"

4.2. Use **as a battery charger** Products without constant current function cannot be used to charge the battery

. Due to the large pressure difference between the consumed battery and the charger, the charging current is too large and the battery is damaged. Therefore, the battery should be charged with constant current at first. When the charge reaches a certain degree, the battery can automatically return to the Constant voltage arga.

(1) determine the floating charging voltage and charging current of the battery you need to charge; (if the lithium battery parameter is 3.7V/2200mAh, the floating charging voltage is 4.2V; if it is a 12V rechargeable battery, it generally sets the floating charging voltage to about 14V)

(2) in no-load conditions, set the voltage value so that the output voltage reaches the floating charge voltage; (If the 3.7V lithium battery is charged, set the output voltage to 4.2V.)

(3) in no-load conditions, set a constant current value (battery charging current);

(4) Connect the battery and charge.

4.3. Used as LED constant current controller (1) determines the operating current and maximum operating voltage of the LED

you need to drive;

(2) in no-load conditions, set the voltage value and current value so that the output voltage reaches the maximum working voltage and current of the LED;

(3) Connect the LED and test the machine.

This product can adjust the constant current value (between 0-working current) to realize continuous dimming of the LED and non-strobe!

5. Function

Details 5.1 Capacity/Power/Operation Time Statistics:

Statistics will start automatically after it is turned on (ON), and the value of the previous state will be displayed after it is turned off (OFF). After the power is turned on again (ON), the recording will start automatically again; On the corresponding interface, press and hold the on/off button for 3 seconds to automatically reset the corresponding data.

5.2 Maximum set capacity/maximum power/maximum operating

time 5.2.1. Set maximum capacity (OAH)/power (OPH): when the OAH/OPH function is started, when the statistical capacity/power is higher than the maximum capacity/power set, the power automatically turns off the output and flashes "OAH"/"OPH"; after the alarm is triggered, capacity/energy statistics will be automatically deleted;

5.2.2. Set the maximum discharge time (OHP): when the OHP function is started, when the power operation time is greater than the maximum discharge time set, the power automatically turns off the output and flashes "OHP"; after the OHP alarm is triggered, the time statistics will be automatically deleted;

This function can perform quantitative/timing power supply well.

Note: When OOP/OPH and OHP functions are not activated, the power supply will automatically record capacity/power and operation time.

When the OAH/OPH and OHP functions are activated, the power supply will automatically turn off the output when the set value is reached; when the OHP function is activated, the operating time of the power supply is the countdown mode;

#### 6. Precautions:

6.1. The input VIN of the module is forbidden to short-circuit with OUT output, otherwise the constant current function will fail.

6.2. Make sure that the power supply power is always greater than the power required by the output load!

6.3. If the module wants full load output, the input voltage must be higher than 8V. When the input voltage is 5V, the output power is about 15W; the maximum current value of the module is 4A, as long as the maximum output power is limited, such as the output 18V, the current will not exceed 2A.

6.4. The module has the input low voltage protection function, which is about 4.7V by default. When it is lower than this value, it will automatically disconnect the output, and when the voltage is higher than 4.7 V, it will automatically recover the output (Note: 4.7 V is the voltage at the product port, when the input current is relatively large, do not ignore the partial voltage on the input wire).