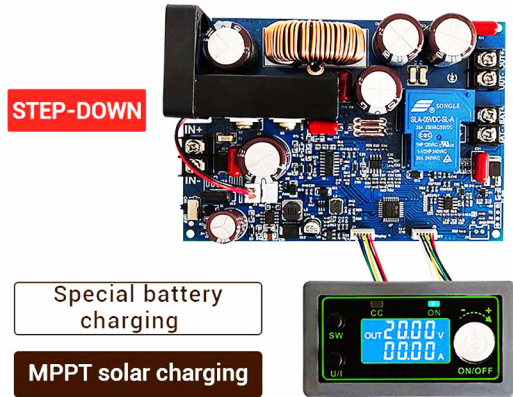


# USER MANUAL

WZ10020L

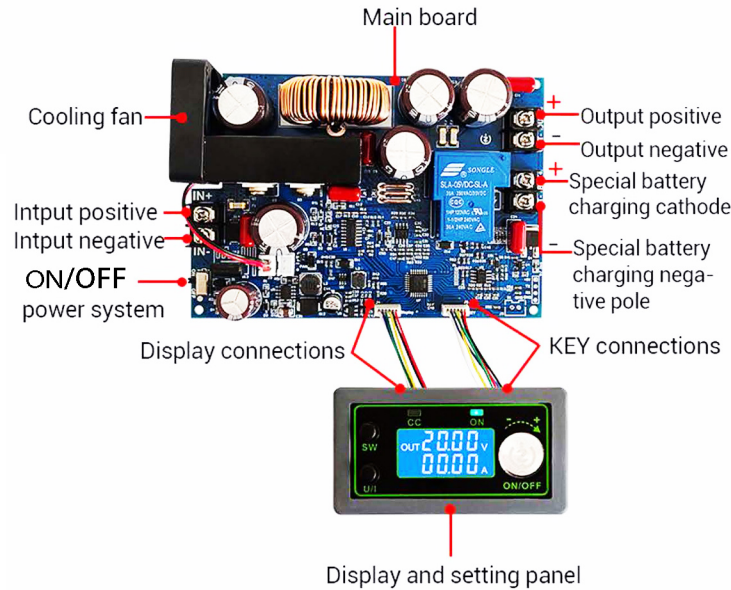
## —DIGITAL CONTROL POWER SUPPLY—

High voltage • High Power • Large current  
Constant voltage and current



Note: This product is a step-down module, and the output voltage range is lower than the input voltage!

1



2

|                                                                                              |                                                         |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Model : WZ10020L                                                                             | Display : LCD                                           |
| Input voltage range : 10-110.00V                                                             | Input voltage resolution : 0.01V                        |
| Output voltage range : 0-100.00V<br>( step-down )                                            | Output voltage resolution : 0.01V                       |
| Output current range :<br>0-20.00A(output voltage 0-50V)<br>0-10.00A(output voltage 50-100V) | Output current resolution : 0.01A                       |
| Output power range : 0-1000W                                                                 | Input voltage accuracy : $\pm(1\%+5\uparrow)$           |
| Output voltage accuracy : $\pm(0.3\%+5)$                                                     | Output current accuracy : $\pm(0.5\%+5)$                |
| Output ripple : 300mV                                                                        | Temperature : -20°C~50°C                                |
| Capacity range : 0-999.9AH                                                                   | Capacity energy error : $\pm 2\%$                       |
| Time range : 0-100 hour                                                                      | Differential pressure :<br>> input voltage X0.05%+1V    |
| Net weight: about 285g<br>Package weight: about 340g                                         | Panel size: 79*43*25mm<br>Motherboard size: 130*90*40mm |

3

Soft start: Yes

Protection mechanism:

Input under voltage protection (9-110V adjustable, default 9V)

Output overvoltage protection (0-101.0V adjustable, 101.0V by default)

Output over current protection (0-20.10A adjustable, default 20.10A)

Output over-power protection (0 - 1010W adjustable, default 1010W)

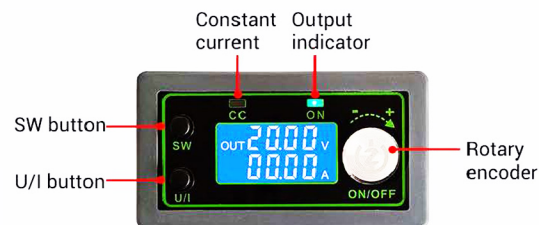
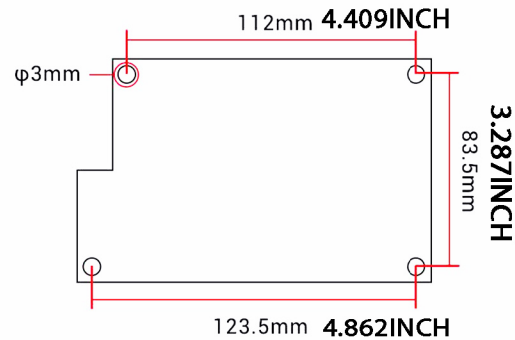
Over temperature protection (80-110 °C adjustable, default 110°C)

Timeout protection (0-100h adjustable, closed by default)

Over capacity protection (0-999.9Ah adjustable, off by default)

4

Schematic diagram of installation opening size



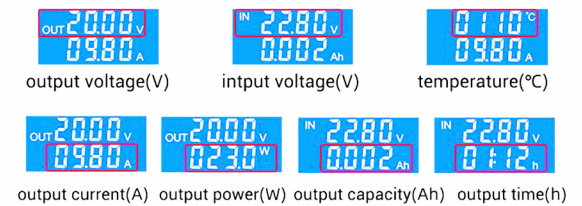
5

OUT: indicates output

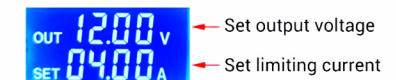
IN: indicates input



Normal interface



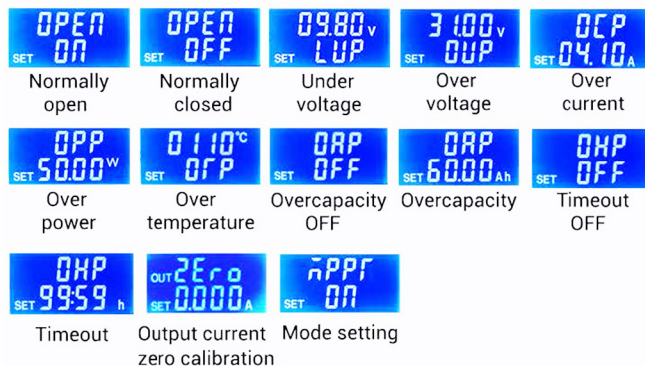
Interface for setting voltage and constant current



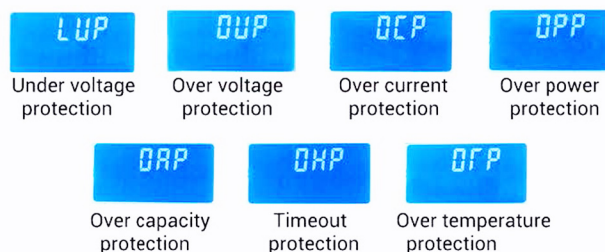
6

If you encounter technical problems that cannot be solved, please send your questions to our technical team: [andre@damgoo.com](mailto:andre@damgoo.com), we will do our best to solve the problem for you.

## Interface to set parameters



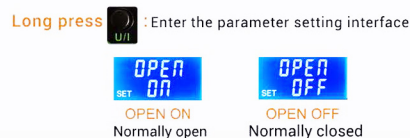
## Protection interface



current interface and return to the normal interface. Or after stopping the operation for 10s, it will automatically return to the normal interface.

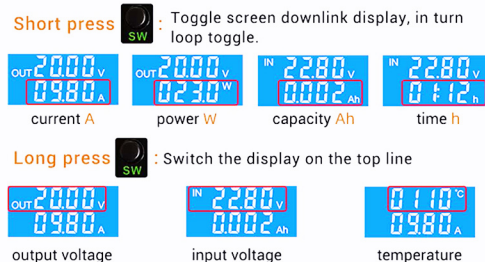


**7.4. Set the default on / off state of the module when it is powered on**—In the normal interface, long press the U / I key to enter the parameter setting interface. You can see the display OPEN OFF or OPEN ON. OPEN OFF represents the power on default off output, and OPEN ON represents the power on default on output. Long press rotary encoder to switch between two states. After setting, long press the U / I key to return to the normal interface.



**7.1. Toggle display parameters**—In the normal interface, briefly press the SW key to switch the display down the display screen. The display content is switched between current A power W capacity Ah time h.

Long press the SW key to switch the display on the upper side of the display screen, and the display content switches between the input voltage IN and the output voltage OUT temperature.



## 7.2. Set output voltage / charging voltage

**value**—Briefly press the U / I button in the normal interface to enter the setting voltage constant current interface. It can be seen that a certain digit of the set output voltage value is flashing. Turn the rotary encoder

## 7.5. Set the protection parameter open state and threshold

—In the normal interface, long press the U / I key to enter the parameter setting interface.

Briefly press the SW key until the protection parameters you want to set appear. LVP – under voltage protection threshold; OVP - overvoltage protection threshold; OCP – over current protection threshold; OAP - over capacity protection threshold; OHP - timeout protection threshold; OTP - over temperature protection threshold.

Short press the rotary encoder to select which bit of the protection parameter you want to set.

Long press the rotary encoder to set whether the protection parameters are on or off (only timeout protection and over capacity protection can be on / off, and other protection parameters are on by default).

The left and right rotary encoders can make the parameters larger and smaller. After setting, long press the U / I key to return to the normal interface.

left and right to increase and decrease.

Short press the rotary encoder to select which bit to set the output voltage. After setting, briefly press the U / I button twice to return to the normal interface. Or after stopping the operation for 10s, it will automatically return to the normal interface.



## 7.3. Set constant current value / maximum charging

**current** ( That is, the maximum current allowed to be output by the module ) —Briefly press the U / I button in the normal interface to enter the setting voltage constant current interface. Briefly press the U / I button again to switch to the setting of constant current value. You can see that a bit of the setting of constant current value is flashing. Turn the rotary encoder left and right to adjust the size. Short press the rotary encoder to select which bit to set the constant current value. After setting, briefly press the U / I key to exit the setting voltage constant

**Long press :** Enter the parameter setting interface



**Short press :** Switch to the protection parameter you want to set

