DC Voltage Regulator 1200W 20A Power Supply Regulator Digital CNC Adjustable Stabilizer LCD Display Constant Current

Feature:

1. High-Quality Materials: Our DC voltage regulator is made of high-quality materials, ensuring durability and long-lasting performance. This feature guarantees that the product can withstand heavy usage in various industrial applications.
2. Constant Voltage and Current: Our power supply regulator features a CNC constant voltage and current regulator, providing stable output voltage and current. This feature ensures that the product delivers reliable and consistent performance over time.
3. Large Screen Display: Our CNC adjustable stabilizer comes with a large screen display that provides a full-angle view of the power's LCD display. This feature guarantees easy-to-read information for customers, making it easier to monitor the voltage and current levels.
4. Solid Material: Our step-down module uses an input common mode inductor, significantly reducing the number of impact input power waves and achieving low-frequency output. This feature ensures that there is minimal interference from other sources, providing accurate measurements.
5. User-Friendly Operation: Our constant voltage module is easy to operate, with simple controls and menus. This feature guarantees that customers can easily use the product without needing extensive knowledge in electronics.

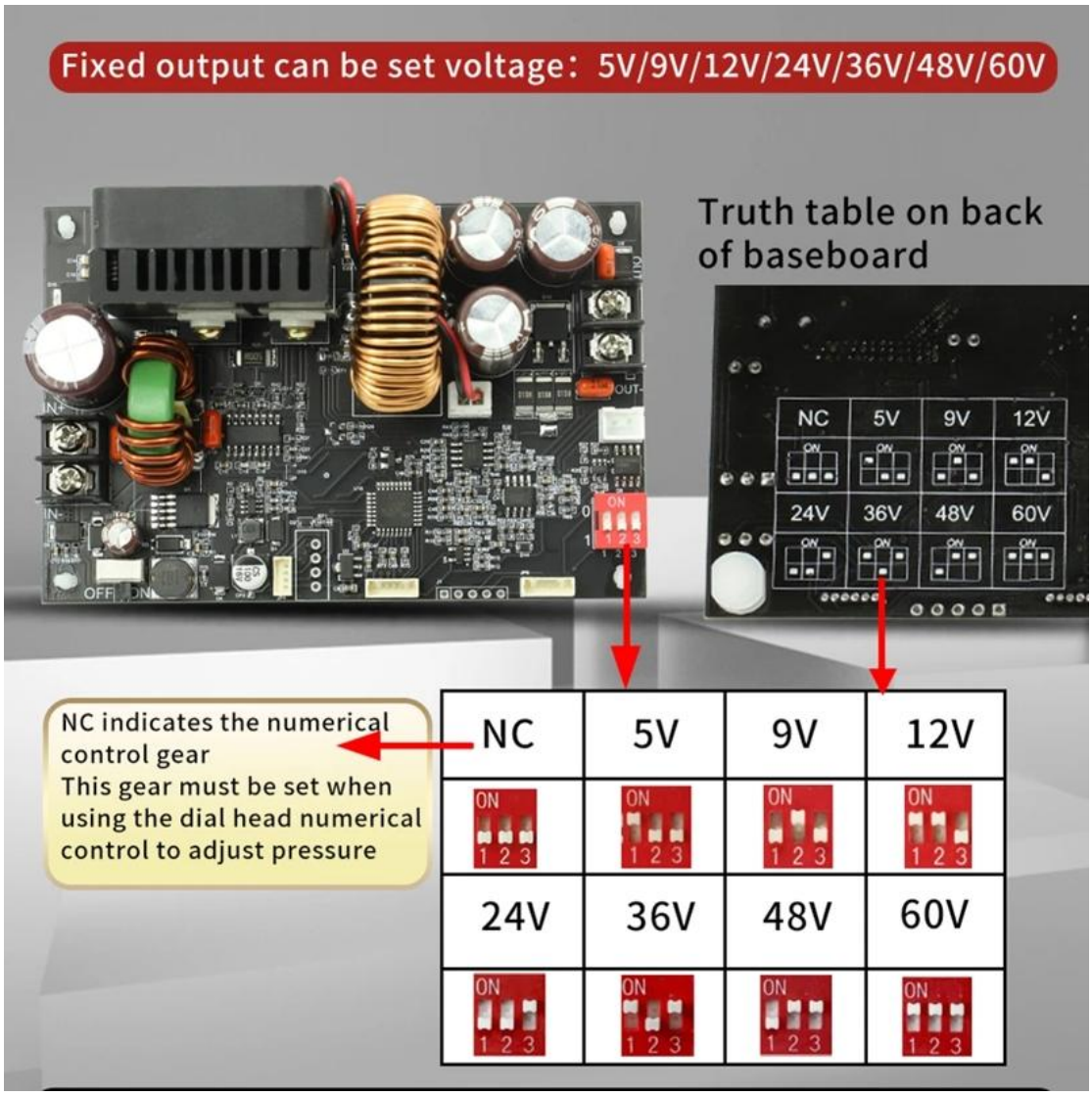
Specification:

Certification: NONE
Origin: Mainland China
Current Type: DC
Model Number: DC Voltage Regulator
Type: Power Supply Regulator
Power: from 1 to 5 kW
Input voltage: 6.0~70V
Output voltage: 0.0~60V
Output current: 0~20.00A
Output ripple typical value: 100mv VPP
Output power: 0~1200W
Maximum output voltage: (input voltage + 1.1)-2
Input voltage measurement resolution: 0.01 V
Output voltage setting measurement resolution: 0.01 V
Current setting measurement resolution: 0.01A
Input voltage measurement accuracy: ±1% + 5 words
Output voltage setting and measurement accuracy: ±0.4% + 1 word
Output current setting and measurement accuracy: ±0.5% + 3 words
Cooling fan on: current > 2A power > 50W temperature > 50°C
Cooling fan on and off: current <1.5A power <45W temperature <45°C
Protection mechanism.
External temperature protection: 0-110°C default off

Input over-voltage protection: 71V default
Input undervoltage protection: 4.8-71V adjustable Default 4.8V
Output over-voltage protection: 0-65V default 65V
Output overcurrent protection: 0-16A default 16A
Output overcurrent power protection: 0-950W default 950W
Over Temperature Protection: 60 - 110°C Default 95°C
Timeout protection: 0 - 100H adjustable Default off
Overload protection: 0 - 9999AH adjustable Default off
Over Energy Protection: 0~9999WH Adjustable Default Off
Product size: 109 x 72 x 42mm/4.3 x 2.8 x 1.7inch
Note:
Due to the different monitor and light effect, the actual color of the item might be slightly different from the color showed on the pictures. Thank you!
Please allow 1-2cm measuring deviation due to manual measurement.

Product parameters			
Product name	Nc DC regulated power supply	Product Model	XY6020L
Input voltage	6.0~70V	Output voltage	0.0~60V
Input current	0~20.00A	Output ripple typical value	100mv VPP
Power output	0~1200W	Maximum output voltage	(Input voltage÷1.1)-2
Input voltage Resolution of measurement	0.01V	The output voltage sets the measure -ment resolution	0.01V
Setting of current Resolution of measurement	0.01A	Input voltage measurement accuracy	±1%+5个Word
Output voltage setting and measurement accuracy	±0.4%+1 Word	Output current setting and measure -ment accuracy	±0.5%+3个Word
Heat dissipation fan on	Current >2A power > 50W Temperature >50°C	The heat dissipation fan is started and then closed	Current <1.5A power <45W Temperature <45°C

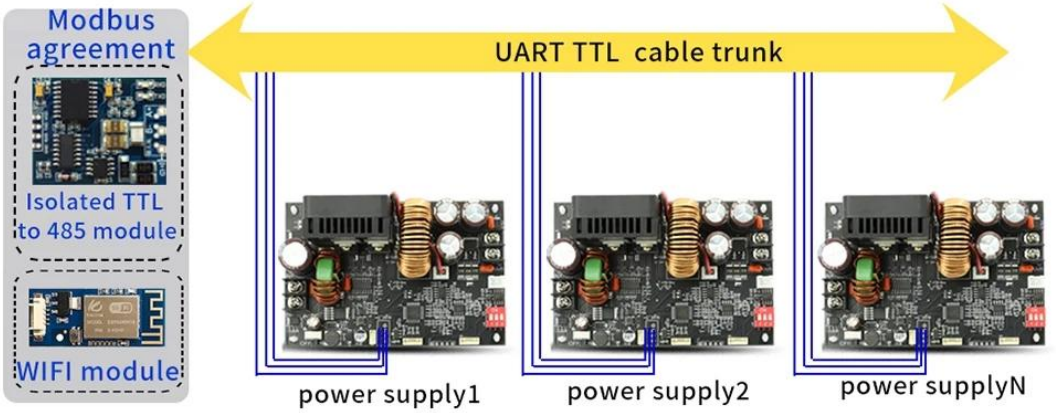
Protection mechanism			
External temper -ature protection	0-110℃ off by default	Input overvoltage protection	default 71V
Input undervoltage protection	(Adjustable 4.8-71V, default 4.8V)		
Output overvoltage protection	(65V, default is 65V)		
overcurrent protection	(Adjustable from 0 to 22.0A, default 22.0A)		
Over power protection	(1250 W, default is 1250W)		
Over temperature protection	60--110 °C, the default is 95 °C		
Time out protection	(Adjustable from 0 to 100h, off by default)		
Over capacity protection	(Adjustable from 0 to 9999Ah, disabled by default)		
Super energy protection	(Adjustable from 0 to 9999Wh, off by default)		


Fixed output can be set voltage: 5V/9V/12V/24V/36V/48V/60V
Truth table on back of baseboard
NC
5V
9V
12V
24V
36V
48V
60V
NC indicates the numerical control gear
This gear must be set when using the dial head numerical control to adjust pressure
ON
1 2 3

Low cost communication power supply

Through a TTL to 485 module or WIFI module, multi - machine remote control can be realized

A low cost communication control scheme can be realized with a single base plate



Press and hold SW the button for 2 seconds to enter the parameter setting screen

Instructions for Use

1. Set voltage and current:

In the operation interface, press V/A button to enter the setting voltage and current interface, LCD downlink display SET, CV flashes, set voltage selection and blink, then press SW or code potentiometer button to switch voltage selection, and adjust the set voltage through the rotary encoder; Press V/A button again, LCD downlink display CC flashes, set current bit selection and blink, press SW or code potentiometer button to switch current bit selection, adjust the set current through the rotary encoder; Press the V/A button again to exit and save the Settings to return to the operating interface; Long press the V/A button for 2 seconds or wait for 6 seconds without any key operation. Then the system will automatically exit and save the Settings, and return to the operation interface.

2.Quick setting of voltage or current:

In the parameter setting interface, set parameter FET to CV or CC, rotate the encoder in the operation interface, then enter the setting voltage and current interface, rotary encoder, quickly set the voltage or current.

3.Setting Parameters:

3.1 On the running screen, hold down SW for 2 seconds to enter the parameter setting screen.

3.2 Press SW to switch the parameters to be set, press the encoder button to switch the bit selection, rotate the encoder and adjust the parameters;

3.3 ON the interface of Maximum Capacity (OAH)/Maximum Power (OPH)/-Maximum Running Time (OHP), press the "ON/OFF" button to enable or disable the corresponding function. If the function is disabled, "----" will be displayed.

3.4 ON the Maximum Capacity (OAH)/Maximum Energy (OPH) screen, hold down ON/OFF Button selection capacity range (9.999Ah/ 99.999AH /9999Ah /9999Ah,9.999Wh/ 99.999WH /9999Wh);

3.5 After the parameter setting is complete, hold down the SW button for 2 seconds to exit the setting screen. The Settings are automatically saved

4.Input and output voltage display:

Press the SW button on the running interface to switch the input and output voltage display.

5. View power (W)/ capacity (Ah)/ energy (Wh)/ time (h) :

In the operation interface, press the encoder button to switch the display power (W)/ capacity (Ah)/ energy (Wh)/ time (h).

6.Locking Function:

In the operation interface, long press the encoder button for 2 seconds to lock the voltage and current set to prevent misoperation; After locking, long press the encoder button for 2 seconds to unlock.

7.Data group function

This product has 10 sets of data from Cd0 to Cd9 (among which Cd8=12V and Cd=24V cannot be adjusted), and the data is saved in Cd0 by default. The specific methods for checking and modifying are as follows:

7.1. Long press V/A key for 2 seconds to enter the data group call out interface, the upper two lines display the set voltage value CV and set current value CC of the data group, and the number of the downstream display group is CD1-CD9;

7.2. Press V/A key to switch between setting voltage CV, setting current CC and data set serial number Cd, and modify parameter value through encoder;

7.3. After confirmation of the data group, long press V/A to pull out the data group and return to the operation interface;

8. Details of other functions:

8.1 Capacity/Energy/running time Statistics:

After the power is turned ON (ON), the statistics will be automatically started. After the power is turned OFF (OFF), the value of the previous state will be displayed. After the power is turned on again (ON), the record will be automatically restarted. ON the corresponding screen, press and hold ON/OFF Key 2 seconds will automatically clear the corresponding data.

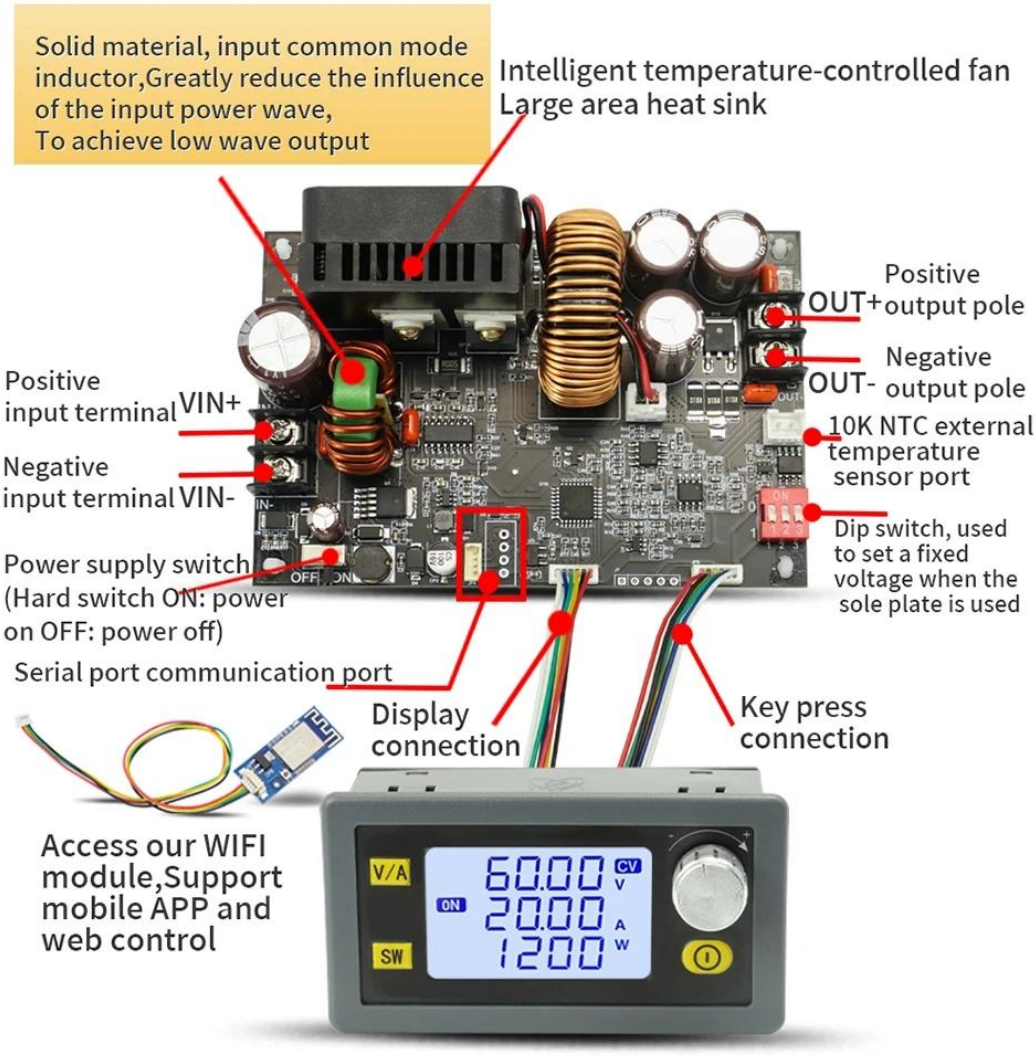
8.2 Setting the Maximum capacity, Maximum Energy, and Maximum Running Time

8.2.1. Setting the Maximum capacity (OAH)/energy (OPH) : When the OAH/OPH function is started and the statistical capacity/energy is higher than the set maximum capacity/energy, the power supply automatically shuts down the output and flashes "OAH" /'OPH'; After the alarm is removed, the capacity/energy statistics will be cleared automatically.

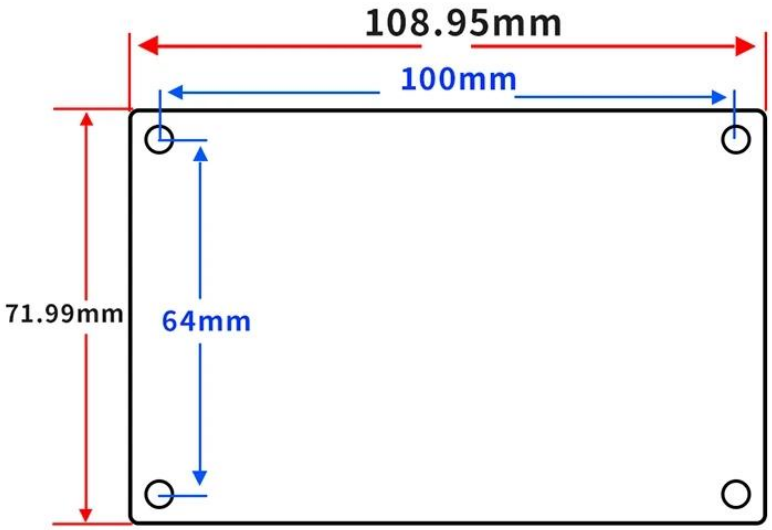
8.2.2. Setting the Maximum Discharge Time (OHP) : After the OHP function is enabled, when the running time of the power supply is greater than the set maximum discharge time, the power output will be automatically turned off and "OHP" will blink. After the OHP alarm is lifted, the time statistics will be cleared automatically.

This function can achieve a good quantitative/timed power supply.

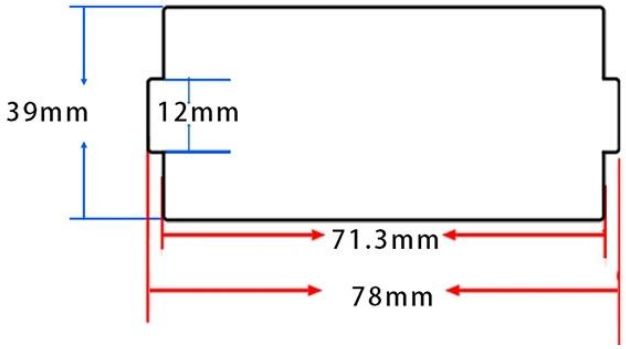
Note: When OAP/OPH and OHP functions are not enabled, the power supply will automatically record the capacity/energy and running time. After OAH/OPH and OHP functions are enabled, the power supply will automatically shut down the output after reaching the set value. After OHP function is enabled, the running time of power supply is countdown mode;


Solid material, input common mode inductor,Greatly reduce the influence of the input power wave,
To achieve low wave output
Intelligent temperature-controlled fan
Large area heat sink
Positive output pole
OUT+
Negative output pole
OUT-
10K NTC external temperature sensor port
Dip switch, used to set a fixed voltage when the sole plate is used
Positive input terminal VIN+
Negative input terminal VIN-
Power supply switch (Hard switch ON: power on OFF: power off)
Serial port communication port
Display connection
Key press connection
Access our WIFI module,Support mobile APP and web control
V/A
SW
ON
60.00
20.00
1200
CV
V
A
W

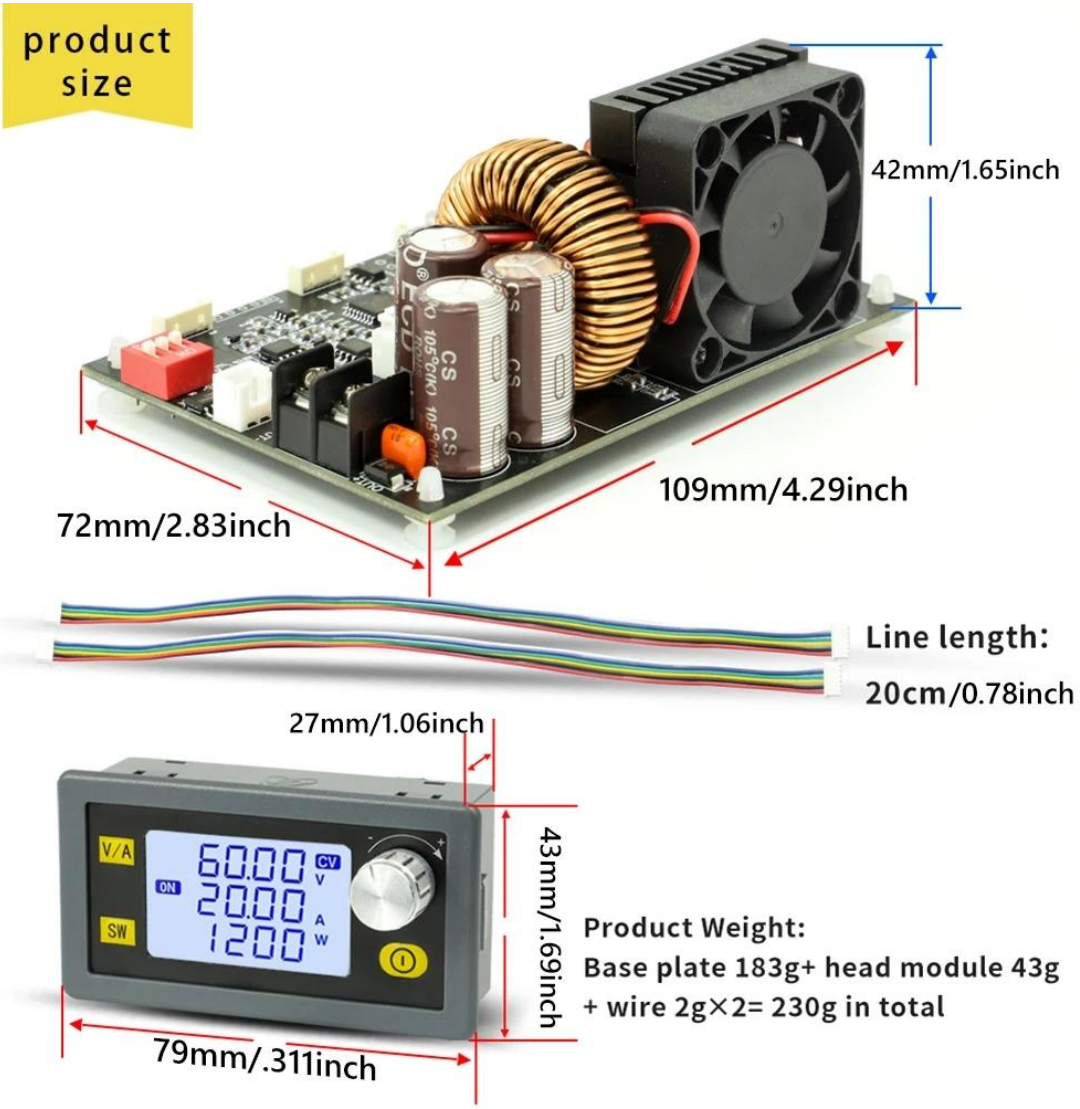
Installation opening size diagram



The suggested opening size is shown below:



product size



Product Weight:
Base plate 183g+ head module 43g
+ wire 2g×2= 230g in total