

Frequently Asked Question (FAQ)

1. Q: When I power it on, the current displays show zero, is it normal?

A: If it isn't connected to a load it should read zero because no current is flowing.

2. Q: How do I get it to stay in constant current mode?

A: CC is attained when the rated set current is exceeded. It would stay in that mode till the current drops back to the preset.

3. Q: How to set the current value without load connecting?

A: Please short the +/- outputs together, set the current, and remove shorting cable. You could also refer to the operation instruction.

4. Q: Does it remember the last settings when turned off and back on again?

A: Yes, because it's on a dial. If you don't adjust it and just flip the on and off switch in the front it will remain the same.

5. Q: How to switch between Constant Voltage (CV) and Constant Current (CC)?

A: The supply will do it automatically. Turn the current down or up to adjust the limit. When the mode CC shifts to CV, the CV indicator light turns on. You can adjust it to any value. It automatically switches to CC when the set current value is exceeded.

About Us

SKY TOPPOWER is a leading manufacturer for various DC regulated power supply in Shenzhen China. As an integrated high-tech enterprise including design, development, production, sales and services, OEM & ODM are welcome.

SKY TOPPOWER's products comply with RoHS, CE and FCC certificates. Our professional team has over 10 years of experience in design, manufacturing, selling of DC power supply. We are passionately committed to bring alternate power solutions to the customers that makes their DIY project smooth and efficient. We bring our products to market domestically across over 20 provinces in China, as well as internationally market such as Europe, North America, Austria, Asia and so on.

With perfect quality, enthusiastic services, timely supply, thoughtful pre-sale after-sales services provided, we cooperate with customers all over the world, and win a good reputation among customers.

Please contact SKY TOPPOWER team below ways for warranty service or support needed:

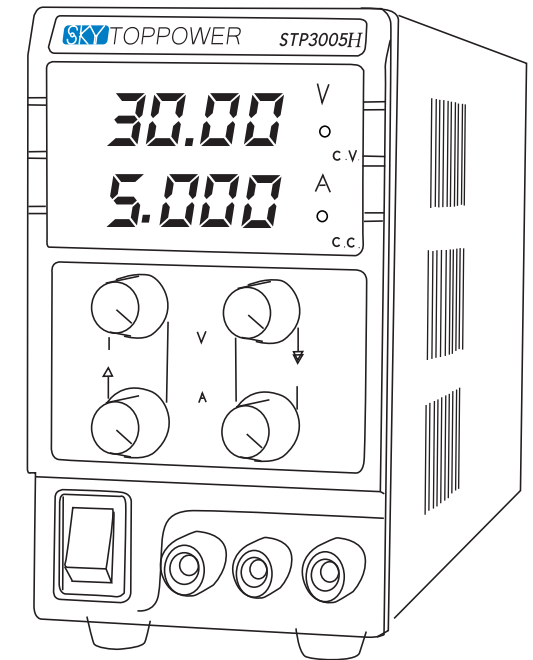
Tel: +86-755-23316973
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Please search for "SKY TOPPOWER" to visit more videos of our device in YouTube.

SKYTOPPOWER

Regulated DC Power Supply Green Power Series User Manual



Shenzhen SKY TOPPOWER Technology Co., Ltd

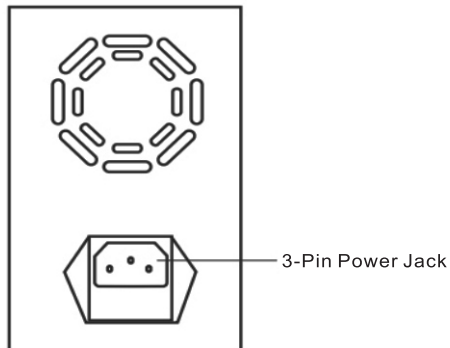
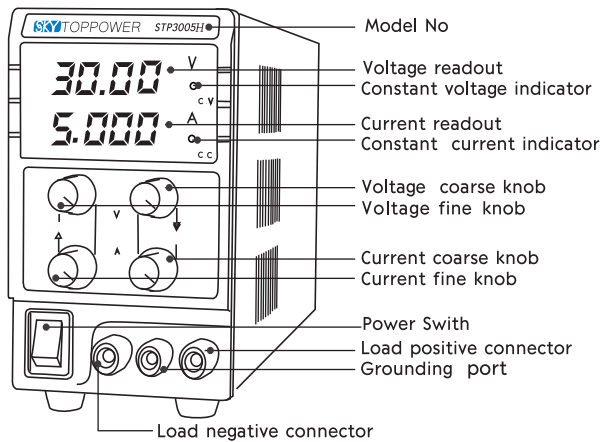
For Safety Use

Please follow the tips below when operating this unit.

- 1) The device is intended for indoor use only.
- 2) Do not open or repair the device. That will void the warranty.
- 3) Do not use the device in a damp environment
- 4) Keep the device away from heat or water, magnetic field.
- 5) Keep the device and all loose parts (if any) away from children, pets and unauthorized persons.
- 6) Don't sharply bend, cut, stretch, knot, or step on the cord. Don't disconnect by pulling on the power cord, rather grab the plug.

Know The Device

SKY TOPPOWER lab-type regulated power supply is a simple, accurate Constant Current (CC), Constant Voltage (CV) DC power source that provides the displayed power and current up to the listed ratings. It can be used to power equipment during testing or during repair and maintenance, or for calibration stations. It will power DIY projects on your work bench at home or for electronic and telecommunication classes at educational institutions.



Technical Specifications

| Model | STP3005H | STP3010H | STP6005H |
|------------------------------------|--|---------------------|----------|
| Input Features | | | |
| Input Voltage | 110 VAC $\pm 10\%$ 60 Hz | | |
| Restore Conditions | Temperature : -10~70 °C | | |
| | Relative Humidity : $\leq 85\%$ | | |
| Working Temperature | 0~40°C | | |
| Output Features | | | |
| Output Voltage | 0-30V | 0-30V | 0-60V |
| Output Current | 0-5A | 0-10 A | 0-5A |
| Voltage Regulation | | | |
| Regulation Rate | $\leq 0.03\% + 5\text{ mV}$ | | |
| Load Regulation Rate | $\leq 0.33\%$ | | |
| Ripple & Noise (peak to peak) | $\leq 50\text{ mV}$ | $\leq 80\text{ mV}$ | |
| Current Regulation | | | |
| Regulation Rate | $\leq 0.1\% + 1\text{ mA}$ | | |
| Load Regulation Rate | $\leq 0.2\% + 5\text{ mA}$ | | |
| Ripple & Noise | $\leq 50\text{ mArms}$ | | |
| Display | 4 - Digit LED | | |
| Display Accuracy | $\pm 0.6\% \pm 1$ | $\pm 0.8\% \pm 1$ | |
| Safety Features | | | |
| Protection | Short Circuit , Overload , OverTemperature, OverVoltage | | |
| Approvals | CE : EMC : EN 61326 ; LVD : EN 61010 | | |
| Package | | | |
| Package Contents | 1 xDC Power Supply ; 1 xPower Cord ; 1 x Use Manual ; 1 x test lend | | |
| Dimension | 226*82*138 mm | | |
| Weight | $\leq 1.5\text{kg}$ | $\leq 1.7\text{kg}$ | |

Operation Instruction

Step 1. Presetting Constant Current Value.

- a. Turn on the power supply, and adjust the output voltage to about 3V by turning the coarse &/or fine Voltage knobs.
- b. Turn off the device.
- c. Short the positive "+" and negative "-" terminals using the leads. Then turn on the power supply.
- d. Adjust the current to the desired amps by turning the coarse or fine Current knobs.
- e. Remove the test lead, setup complete.

Please do not adjust the Current knobs once the current limit has been set as above. Current limiting has now been set for the whole range of output voltages.

Step 2. Presetting Constant Voltage Value.

- a. Adjust the output voltage by turning the coarse or fine Voltage knobs.
- b. Turn off the device.

Please do not adjust the voltage knobs once the voltage has been set as above.

Step 3. Now connect your load: positive to positive and negative to negative.

Note: If the display shows (CC), either your preset current limiting value is too low or your load requires more voltage or current. You need to adjust your current and voltage settings using the above steps.

About CC&CV

The power supply functions as a constant voltage source (CV) as long as the load current is less than the preset current limiting value. If the load current becomes equal to or greater than the preset current limit, the power supply will automatically cross over to the constant current mode and the voltage will drop. (CC) will display on the LED panel indicating the supply is now operating as a constant current source.

If the load current drops below the preset current limit, the power supply returns to constant voltage (CV) mode.