

## 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

Founded in 2012, SKY TOPPOWER is an integrated high-tech enterprise specializing in design, development, production, sales, and services. We also offer OEM and ODM services tailored to meet the specific needs of our customers.

Driven by innovation and a passion for technology, SKY TOPPOWER has continuously excelled in the fields of DC switching power supplies, radio power supplies, soldering stations, hot air rework stations, and various accessories, including test leads and solder wire. Our goal is to provide customers with high-quality, high-performance, reliable, and durable products that they can depend on.

Our core philosophy, "To manufacture quality products and provide excellent service," defines the culture at SKY TOPPOWER. We prioritize product quality as essential to our survival and growth. Our meticulous quality control encompasses every detail, from research and development to manufacturing, from sourcing raw materials to delivering finished products, and from packaging to shipment, as well as sales and after-sales service. We firmly believe that true value is created through quality that endures.

Our products are distributed across Europe, Asian, the USA, Canada, Australia, Japan, South America, and many other countries and regions. We take pride in delivering products that are as reliable as they are innovative.

As we continue to grow and evolve, our mission remains clear: to provide the highest quality tools and power supplies that empower our customers to achieve their goals, no matter how big or small.

**Please contact SKYTOPPOWER team below ways for warranty service or support needed:**

Tel: +86-755-23316973

Skype: live:skytppower 2

E-mail: stp@skytppower.com; support@skytppower.com

Web: www.skytppower.com

Add: 3/F, A2 Building Baicai Industrial Park No.19, Tianbao Road.

Yingrenshi Shiyan Street, Baoan District, Shenzhen, China 518055

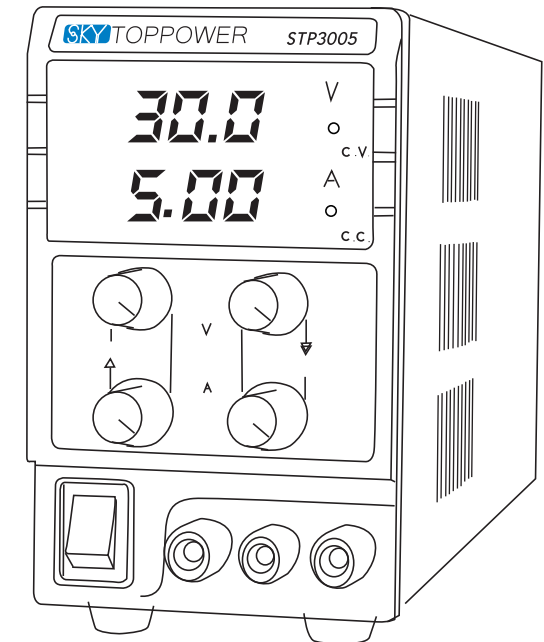
Please search for "**SKY TOPPOWER**" to visit more videos of our device in YouTube.

**SKY**TOPPOWER

## Regulated DC Power Supply

### Green Power Series

## User Manual



Shenzhen SKY TOPPOWER Technology Co., Ltd

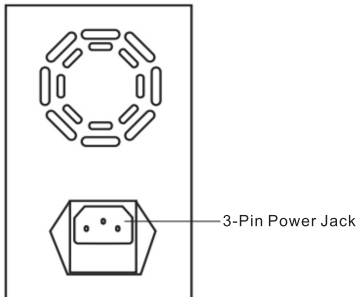
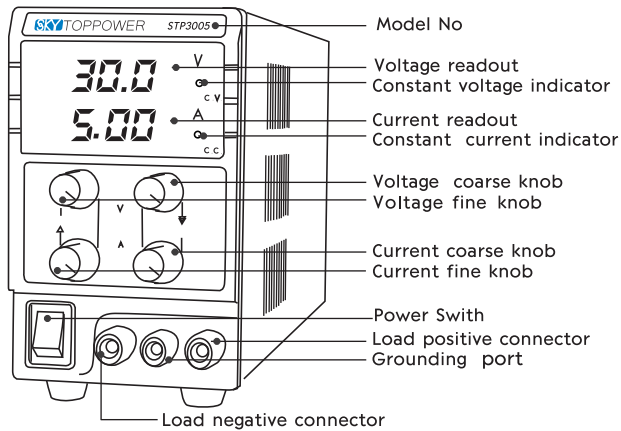
## For Safety Use

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	STP3005	STP3010	STP6005
<b>Input Features</b>			
Input Voltage	110V±10%,60Hz or 230V±10%,50Hz		
Restore Conditions	Temperature : -10~70 °C		
	Relative Humidity : ≤ 85 %		
Working Temperature	0~40°C		
<b>Output Features</b>			
Output Voltage	0-30V	0-30V	0-60V
Output Current	0-5A	0-10 A	0-5A
<b>Voltage Regulation</b>			
Regulation Rate	≤ 0.03% + 5 mV		
Load Regulation Rate	≤ 0.33 %		
Ripple & Noise ( peak to peak )	≤ 50 mV	≤ 80 mV	
<b>Current Regulation</b>			
Regulation Rate	≤ 0.1 % + 1 mA		
Load Regulation Rate	≤ 0.2% + 5 mA		
Ripple & Noise	≤ 50 mArms		
Display	3 - Digit LED		
Display Accuracy	±0.6% ±1	±0.8% ±1	
<b>Safety Features</b>			
Protection	Short Circuit , Overload , OverTemperature, OverVoltage		
Approvals	CE : EMC : EN 61326 ; LVD : EN 61010		
<b>Package</b>			
Package Contents	1 xDC Power Supply ; 1 x Power Cord ; 1 x Use Manual ; 1 x test lead		
Dimension	226*82*138 mm		
Weight	≤1.5kg	≤1.7 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.