DC Power supply 305MS/3010MS/605MS User Manual

I、 Overview

The ultra-mini DC regulated power supply is a tiny single-channel DC power supply with a four-digit digital tube that simultaneously displays voltage, current and power values; Equipped with an "ON/OFF" output switch and a USB fast charging output. Light weight and compact, it is the ideal preferred test tool for customers.

II、 Features

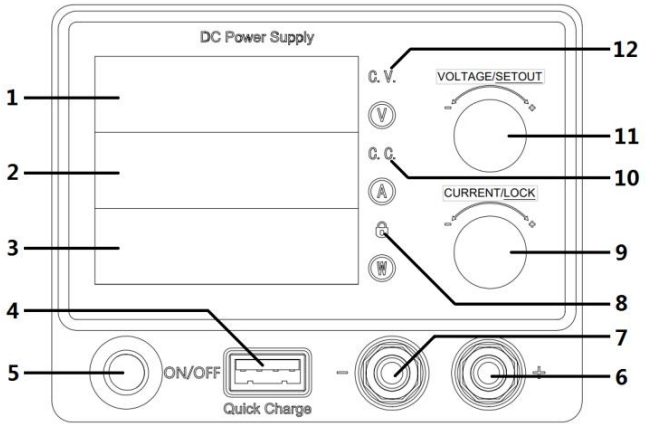
- Small in size, fully functional
- Independent ON/OFF output switch
- It can remember the preset voltage and current values before turning off
- External USB Type-A fast charging
- Key lock function to prevent misoperation

III、 Technical Parameters

Model	305MS	3010MS	605MS
Rated Voltage Output	0~30V	0~30V	0~60V
Rated Current Output	0~5A	0~10A	0~5A
Rated Power Output	0~150W	0~300W	0~300W
AC Input Voltage	115-230V±10% (wide voltage)		
Nominal Working Conditions			
Working Conditions	Temperature: 0℃ to 40℃ Relative humidity: < 80%RH		
Storage Conditions	Temperature: -10℃ to 70℃ Relative humidity: < 70%RH		
Constant Voltage State			
Voltage Stability	≤1%±3mV	≤1%±10mV	≤1%±10mV
Load Stability	≤1%±3mV	≤1%±10mV	≤1%±10mV
Ripple Noise	≤50mVrms	≤60mVrms	≤60mVrms
Constant Current State			
Current Stability	≤1%±3mA	≤1%±10mA	≤1%±10mA
Load Stability	≤1%±3mA	≤1%±10mA	≤1%±10mA
Ripple Noise	≤50mArms	≤60mArms	≤60mArms
Display			
Voltage Resolution	0.01 V		
Current Resolution	0.001 A		
Display Accuracy	1%±5 digits	1%±10 digits	1%±10 digits
USB-A Output Port	QC3.0 (18Wmax)(5V-3A/9V-2A/12V-1.5A)		
Fast Charging Protocol	Support QC3.0/2.0/FCP(SCP A)		
Product Size (W×D×H)mm	305MS:(102×195×80)mm 3010/605MS:(102×220×80)mm		
Product Net Weight	About 0.8kg	About 1kg	About 1kg
Packaging Size (W×D×H)mm	305MS:(178×228×115)mm 3010/605MS:(178×253×115)mm		
Weight With Package	About 1.15 kg	About 1.35kg	About 1.35kg
Fuse Specifications	3.15 A	5 A	5 A

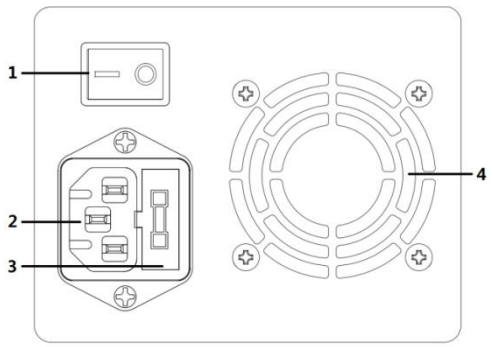
IV、 Panel Introduction

（I）Front panel



1. Voltage display window: Shows preset voltage values in standby mode; In the output state, display the output voltage value. Unit: volts (V).
2. Current display window: Displays preset current values in standby mode; Display the output current value in the output state. Unit: Amperes (A).
3. Power display window: In standby mode, shows "OFF"; In the output state, show the power output of the power supply. Unit: Watt (W).
4. 18W fast charging output port: QC18W (5V-3A/9V-2A/12V-1.5A).
5. Output on/off button : Short press to switch output status.
6. Positive(Red) output terminal.
7. Negative(Black) output terminal.
8. Keypad Lock indicator : Hold down the current knob lock indicator light. The lock indicator light is yellow, indicating that the knob is locked; Hold down the current adjustment knob again and the lock indicator light will turn off and the lock will be released.
9. Current adjustment knob: Rotate clockwise and the preset current value increases. Turn it counterclockwise and the current preset will decrease. Press the knob short to move the current preset editing position from right to left; Hold down the knob to lock/unlock the knob.
10. CC Constant current indicator : The red "CC" light on, indicating that the power supply is currently in constant current output mode.
11. Voltage adjustment knob: Turn clockwise to increase the preset voltage value; Turn it counter clockwise and the preset voltage will decrease. Press the knob short to move the voltage preset editing position from right to left; Long press the knob to save the current output state, and the next time the power is connected, restore the previous output state directly.
12. CV Constant voltage indicator: The green "CV" light on, indicating that the power supply is in constant voltage output mode at this time.

（II）Rear Panel



1. Power input on-off switch: Press "1" to turn on power, press "0"

to turn off power input.
2. Power supply socket: 115-230V±10% (wide voltage).
3. Fuse holder: Built-in 3.15A/5A fuse.
4. Cooling fan.

V、 Instructions for use and precautions

1. Turn the power switch off, connect the power cord that comes with this power supply, connect the "L" end of the power cord plug to the live wire of the AC input as much as possible, and ensure that the ground wire in the power cord is well connected to the ground.
2. The power supply must be grounded in use.
3. When using this power supply, pay attention to ventilation. There should be a 10cm gap between the upper, lower, left and right sides and other items to ensure smooth ventilation. Do not expose the power supply to dusty, corrosive gases and other harmful substances.
4. Turned the Device on for 15 minutes, before performing a technical measurements.
5. Before powering on, check if the input voltage of the power supply matches the mains voltage; otherwise, it will cause a serious malfunction.

VI、 Packing List

1. 305MS/3010MS DC Power Supply --------1pc
2. Power cord ----------1pc
3. User manual ----------1pc
4. Test lead ----------1pc

VII、 Maintenance

1. When the power supply voltage is normal and the meter does not light up after startup, it may be a blown fuse or other faults. Disconnect the power switch, unplug the power cord, replace the fuse or ask a professional to check.
2. When used as a voltage stabilizer, if the output voltage is less than the preset value and the CC light is on, the power supply enters current protection and the machine automatically switches to steady current working state. At this time, check the load or increase the preset value of the output current according to the usage situation (turn the current knob clockwise).
3. When used as a constant current source, if the output current is less than the preset value and the CV light is on, the power supply enters voltage protection and the machine automatically switches to a stable voltage working state. At this time, check the load or increase the preset output voltage value according to usage (turn the voltage knob clockwise).
4. If the fault is severe and cannot be resolved, please contact the dealer or our company.

Product Certificate/Warranty Card

[After-sales service details]

1. Free upgrade of software version. Free replacement and maintenance for quality problems caused by design, manufacturing and installation process, materials, etc.
2. Any damage caused by force majeure(such as flood, fire, earthquake,war, etc.) and user's human factors. (such as construction, cleaning and other unintentional human factors) shall be settled by both parties through coordination.
3. "one year warranty, lifetime maintenance", after the end of the warranty period, the system will be maintained for life, and only the material cost will be charged for replacing accessories.
4. The company shall not be liable for any other loss arising from the use.
5. Free warranty service is available for12months(excluding accessories), and the freight will be paid by the sender (only for mainland customers).
6. The following conditions are not covered by the warranty:
   (1) The internal circuit of the power supply is damaged due to the harsh environment(such as electroplating and other highly corrosive environments).
   (2) The product has been repaired or modified by non-company technicians or non-company approved service stations.
   (3) The product has been damaged by misoperation, negligent use and other incidents.
   (4) Do not operate or maintain according to the instructions provided by the original factory.
   (5) This product has been discontinued for five years or more.

product certificate	
specifications and models	
identification of product	
date of manufacture	
inspector	
This product is approved for delivery after passing the inspection and meeting the prescribed quality standards	

warranty card	
product model	
date of purchase	
vendors	
customer name	
customer address	
customer phone	
fault description	
Note:This card is the product warranty certificate, please be sure to keep it properly	