

Bolisila WPS305H

Bolisila Adjustable DC Power Supply WPS305H 30V 5A User Manual

Model: WPS305H (30V 5A, 220V)

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Bolisila WPS305H Adjustable DC Power Supply. This programmable switching power supply offers a stable and precise DC output, suitable for various electronic testing, research, and development applications. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INSTRUCTIONS

- Ensure the power supply is connected to a grounded electrical outlet with the correct voltage (220V for this model).
- Do not operate the device in wet or damp conditions.
- Avoid blocking ventilation openings to prevent overheating.
- Do not open the casing; there are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Always disconnect the power supply from the main power source before making any connections or disconnections to the output terminals.
- Verify the voltage and current settings before connecting to a load to prevent damage to the connected device.

3. PRODUCT OVERVIEW

The Bolisila WPS305H is an adjustable DC power supply featuring a clear digital display and intuitive controls. Below is an illustration of the front panel and its components.



This image displays the front panel of the Bolisila WPS305H DC Power Supply. It features a digital display at the top showing Voltage (C.V), Current (C.C), and Power (W). Below the display are control knobs for VOLTAGE and CURRENT adjustment, an OUTPUT button, a POWER button, a USB Quick Charge port, and the positive (+) and negative (-) output terminals.

Front Panel Components:

1. **Digital Display:** Shows real-time Voltage (V), Current (A), and Power (W) output. Indicators for Constant Voltage (C.V), Constant Current (C.C), and Over Current Protection (OCP) are also present.
2. **Output Button:** Toggles the DC power output ON or OFF.
3. **USB Quick Charge Port:** Provides a dedicated USB charging output.
4. **VOLTAGE Knob:** Adjusts the output voltage.

5. **POWER Button:** Toggles the main power supply ON or OFF.
6. **CURRENT Knob:** Adjusts the output current limit. This knob may also function as an OCP ON/OFF control (Push/Hold).
7. **Output Terminals:** Red (+) for positive, Black (-) for negative.

4. SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the unit on a stable, level surface with adequate ventilation around it. Ensure no objects obstruct the air vents.
3. **Power Connection:** Connect the provided power cord to the AC input socket on the rear of the unit and then to a standard 220V AC grounded wall outlet.
4. **Initial Power On:** Press the main POWER button on the front panel. The digital display should illuminate.
5. **Connecting Load:** Before connecting any load, ensure the power supply output is OFF (check the 'OUT' indicator on the display). Connect the positive (+) terminal of your load to the red output terminal and the negative (-) terminal of your load to the black output terminal.

5. OPERATING INSTRUCTIONS

5.1 Setting Voltage and Current

1. Ensure the power supply is ON and the output is OFF.
2. Rotate the **VOLTAGE** knob to set the desired output voltage. The display will show the set voltage.
3. Rotate the **CURRENT** knob to set the desired current limit. This acts as a maximum current the supply will deliver. The display will show the set current.
4. Once voltage and current limits are set, press the **Output** button to enable the DC power output. The 'OUT' indicator will illuminate.
5. The display will now show the actual output voltage, current, and power being delivered to the load.

5.2 Over Current Protection (OCP)

The WPS305H features an Over Current Protection function. If the output current exceeds the set limit, the OCP will activate to protect both the power supply and the connected load. The 'OCP' indicator on the display will illuminate.

- To enable/disable OCP, push and hold the **CURRENT** knob for a few seconds. The display will indicate OCP status.
- When OCP is triggered, the output will shut down. To reset, turn the output OFF, resolve the overload condition, and then turn the output ON again.

5.3 Memory Storage Function

This model includes a memory storage function to save and recall frequently used voltage and current settings. Refer to the specific on-screen prompts or additional documentation for detailed instructions on saving and recalling presets, as the exact procedure may vary.

5.4 USB Quick Charge

The dedicated USB Quick Charge port provides a convenient power source for compatible USB devices. Simply connect

your USB device to this port. This output operates independently of the main DC power output.

6. MAINTENANCE

- **Cleaning:** Disconnect the power supply from the AC outlet. Use a soft, dry cloth to clean the exterior. Do not use abrasive cleaners or solvents.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris.
- **Storage:** When not in use for extended periods, store the power supply in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power when turned on	Power cord not connected; Power outlet fault; Internal fuse blown.	Check power cord connection; Test outlet with another device; Contact service for fuse replacement.
No output voltage/current	Output button is OFF; OCP triggered; Incorrect settings.	Press the Output button; Check for OCP indicator and reset; Verify voltage and current settings.
Output voltage/current unstable	Poor load connection; Overload condition; Internal fault.	Check load connections; Reduce load; Contact service.
Unit overheats	Blocked ventilation; Excessive load.	Ensure clear airflow around the unit; Reduce load or operating time.

8. SPECIFICATIONS

- **Model:** WPS305H
- **Input Voltage:** 220V AC
- **Output Voltage:** 0-30V DC (Adjustable)
- **Output Current:** 0-5A DC (Adjustable)
- **Display Accuracy:** 0.01V / 0.001A
- **Output Power:** 150W (Max)
- **Display:** Four-digit LED for Voltage, Current, Power
- **Features:** Constant Voltage (CV), Constant Current (CC), Over Current Protection (OCP), Memory Storage, USB Quick Charge
- **Dimensions (Package):** Approximately 0.39 x 0.39 x 0.39 inches
- **Item Weight:** Approximately 2.2 pounds (1000 Grams)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the seller or manufacturer directly. Retain your purchase receipt as proof of purchase for any warranty claims.

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