

Wanptek DPS3010U

Wanptek DPS3010U DC Power Supply Instruction Manual

Model: DPS3010U | Brand: Wanptek

1. SAFETY INFORMATION

Please read all safety instructions carefully before operating the Wanptek DPS3010U DC Power Supply. Failure to follow these guidelines may result in electric shock, fire, or damage to the device.

- Ensure the correct input voltage (115V or 230V) is selected on the rear panel before connecting to power.
- Do not operate the power supply in wet or damp conditions.
- Avoid blocking ventilation openings to prevent overheating.
- The device features an Over Current Protection (OCP) short circuit alarm to prevent damage.



The power supply features an OCP short circuit alarm for enhanced safety.

Official product video demonstrating the power supply's features, including voltage adjustment, USB charging, and short circuit alarm functionality.

2. PRODUCT OVERVIEW

The Wanptek DPS3010U is a variable DC power supply designed for precision and versatility. It features an encoder knob for coarse and fine adjustments, USB and Type-C quick-charge interfaces, and a clear four-digit display for voltage, current, and power output.



Front view of the Wanptek DPS3010U DC Power Supply.

Key Features:

- **Encoder Knob Adjustment:** Provides precise control over voltage and current with separate coarse and fine adjustment knobs.
- **USB & Type-C Quick-Charge:** Integrated ports for convenient charging of external devices.
- **High Precision Display:** Four-digit LED display for accurate readings of voltage (V), current (A), and power (W).
- **Compact and Lightweight Design:** Optimized for benchtop use, saving space.
- **Multiple Security Protections:** Includes over-voltage, over-current, over-power, over-temperature, and short-circuit protection.



Overview of the power supply's main features.

3. SETUP

3.1 Initial Voltage Setting

Before connecting the power supply to the mains, verify the voltage selector switch on the rear panel. Ensure it matches your local power grid (115V for North America, 230V for most of Europe and Asia). Using the incorrect voltage setting can damage the unit.



Rear panel showing the voltage selector switch. Adjust to 115V or 230V as required.

3.2 Connecting to Power

1. Ensure the power switch on the front panel is in the OFF position.
2. Connect the provided power cable to the AC inlet on the rear of the power supply.
3. Plug the other end of the power cable into a suitable wall outlet.

3.3 Connecting Load

1. Connect the positive (+) terminal of your load to the red output terminal on the power supply.
2. Connect the negative (-) terminal of your load to the black output terminal on the power supply.
3. If grounding is required, connect the ground terminal (green) to your circuit's ground.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Press the ON/OFF switch on the front panel to power the unit on or off. The display will illuminate upon power-on.

4.2 Adjusting Voltage and Current

The DPS3010U features encoder knobs for precise control:

- **V-COARSE / A-COARSE:** Use these knobs for large adjustments to voltage and current.
- **V-FINE / A-FINE:** Use these knobs for small, precise adjustments to voltage and current.
- **Encoder Knob Function:** Press the encoder knob to switch between digits for adjustment. Rotate the knob to set

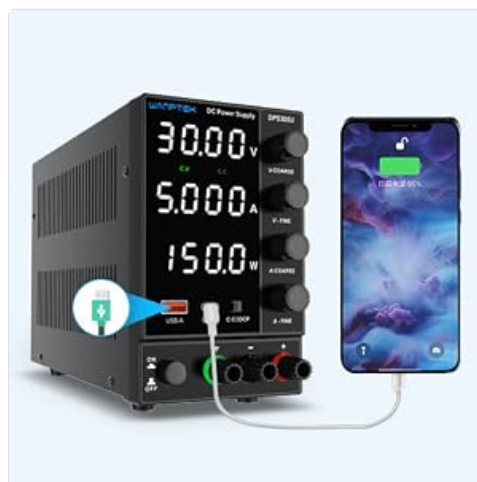
the desired value. The coarse adjustment knob sets the value before the decimal point, and the fine adjustment knob sets the value after the decimal point.



Detailed explanation of the encoder knob functionality for precise adjustments.

4.3 Using USB and Type-C Quick-Charge Interfaces

The power supply includes dedicated USB-A and Type-C ports for quick charging compatible devices. Simply connect your device to the appropriate port.



Charging a mobile device using the integrated USB-C port.

5. MAINTENANCE

- **Cleaning:** Disconnect the power supply from the mains before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the ventilation openings on the sides and rear of the unit are clear of obstructions to allow for proper airflow and prevent overheating. The internal cooling fan will activate automatically when needed.
- **Storage:** Store the power supply in a cool, dry place away from direct sunlight and excessive dust when not in use for extended periods.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Display off	Power cable not connected; Power switch off; Incorrect voltage setting; Blown fuse.	Check power cable connection; Turn on power switch; Verify voltage selector on rear; Check and replace fuse if necessary.
OCP alarm activates	Short circuit in the load; Overcurrent condition.	Disconnect load and check for short circuits; Reduce current demand of the load; Adjust current limit setting.
Output voltage/current unstable	Loose connections; Overloaded circuit; Internal fault.	Check all connections; Ensure load is within specifications; Contact customer support if problem persists.

7. SPECIFICATIONS

Parameter	Value
Model Name	WANPTEK DPS3010U
Output Voltage	0-30V
Output Current	0-5A
Output Wattage	150W (Max)
Input Voltage	AC115V/230V ±10% (Switchable)
Item Weight	1.47 kg (3.23 pounds)
Package Dimensions	10.43 x 7.72 x 5.39 inches
Cooling Method	Air (with fan)
Display	Four-digit LED
Protection Features	OCP, OVP, OPP, OTP, Short Circuit Protection



There is a voltage switch on the back of the benchtop power supply. If your area uses 110V, you need to flip it to 115V.

Input Voltage:	AC115/230V ±10%
Output DC Current:	0-5A
Output Voltage:	0-30V
Product Weight:	2.64lb
Cooling Fan:	✓
Short Circuit Alarm:	✓
Encoder Adjustment Knob:	✓
Type-C Quick-Charge Interface:	✓
USB Quick-Charge Interface:	✓
Multiple Security Protection:	✓

Detailed specifications and rear panel view.

8. PACKAGE CONTENTS

Upon opening the package, please ensure all the following items are included:

- Wanptek DPS3010U DC Power Supply Unit
- Power Cable
- U-shaped Transmission Line (Output Cables)
- Operation Manual (this document)



Contents included in the product package.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Wanptek DPS3010U DC Power Supply, please contact the manufacturer directly through their official channels. Retain your purchase receipt for warranty claims.

You can visit the official Wanptek store on Amazon for more information:[Wanptek Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question