

VOLT CRAFT PPS-11360

VOLT CRAFT PPS-11360 Adjustable Laboratory Power Supply User Manual

Model: PPS-11360

1. PRODUCT OVERVIEW

The VOLT CRAFT PPS-11360 is a versatile and programmable laboratory power supply designed for various electronic applications. It provides a stable and adjustable DC output, making it suitable for development, testing, and educational purposes. Key features include a wide voltage and current range, USB connectivity for remote control, and multiple output channels.



Image 1.1: Front view of the VOLT CRAFT PPS-11360 Adjustable Laboratory Power Supply, showing the display and control knobs.

Key Features:

- Adjustable Output Voltage: 1 V/DC to 36 V/DC

- Adjustable Output Current: 0 A to 5 A
- Total Power Output: 180 W
- Number of Outputs: 2
- USB Programmable for remote control
- Robust metal casing

2. SAFETY INSTRUCTIONS

Please read these safety instructions carefully before operating the device to prevent injury or damage. Keep this manual for future reference.

- **Electrical Safety:** Always connect the power supply to a grounded outlet. Do not operate the device with wet hands or in damp environments. Ensure the power cord is undamaged.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block the ventilation openings. Overheating can lead to device malfunction or damage.
- **Operating Environment:** Use the device in a clean, dry environment, away from direct sunlight, extreme temperatures, and corrosive gases.
- **Servicing:** Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- **Output Connections:** Ensure correct polarity when connecting loads to the output terminals. Avoid short circuits.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the power supply from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. If any damage is found, contact your supplier immediately.

3.2 Package Contents

- VOLTcraft PPS-11360 Laboratory Power Supply
- AC Power Cord
- User Manual

3.3 Connecting to Power

1. Ensure the power switch on the front panel is in the OFF position.
2. Connect the provided AC power cord to the power input socket on the rear panel of the power supply.
3. Plug the other end of the AC power cord into a suitable grounded electrical outlet (100-240V AC, 50/60Hz).



Image 3.1: Rear panel of the VOLTcraft PPS-11360, showing the power input, fan, USB port, and remote control connector.

3.4 Connecting a Load

1. Ensure the power supply is turned OFF before connecting any load.

2. Connect the positive (+) terminal of your load to the red output terminal (MAIN OUTPUT +) on the front panel.
3. Connect the negative (-) terminal of your load to the black output terminal (MAIN OUTPUT -) on the front panel.
4. For remote control, connect the USB cable to the USB port on the rear panel and to your computer. Install necessary drivers and software as per the manufacturer's website.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the device, flip the power switch on the front panel to the ON position. The display will illuminate. To power off, flip the switch to the OFF position.

4.2 Adjusting Voltage and Current

1. Turn the voltage adjustment knob to set the desired output voltage. The display will show the set voltage.
2. Turn the current adjustment knob to set the desired output current limit. The display will show the set current limit.
3. Connect your load. The display will show the actual output voltage and current being delivered to the load.

4.3 Using Preset Modes (P1, P2, P3)

The device features preset memory functions (P1, P2, P3) to store and recall frequently used voltage and current settings. Use the "MODE" switch to select between Normal, Preset, and Remote Control modes. In Preset mode, use the "RECALL" button to cycle through and select P1, P2, or P3.

4.4 Remote Control Operation (USB)

For remote control via USB, ensure the USB cable is connected to both the power supply and your computer. Set the "MODE" switch to "Remote Ctrl". Use the provided software (available from VOLTcraft website) to control voltage, current, and other parameters from your computer. Refer to the software manual for detailed instructions.

5. MAINTENANCE

5.1 Cleaning

To clean the exterior of the power supply, use a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing and display. Ensure the device is powered off and unplugged before cleaning.

5.2 Ventilation

Regularly check that the ventilation openings on the rear panel are free from dust and obstructions. A clogged fan or vents can lead to overheating and reduced performance. Use compressed air to gently clear any dust buildup.

5.3 Fuse Replacement

If the power supply does not turn on, check the fuse located near the AC input on the rear panel. To replace the fuse:

1. Disconnect the power cord from the wall outlet and the power supply.
2. Use a small flat-head screwdriver to open the fuse holder.
3. Remove the old fuse and replace it with a new fuse of the same type and rating (T6AL 250V).
4. Close the fuse holder securely.

Warning: Always use a fuse with the specified rating to prevent damage to the unit or fire hazard.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Unit does not turn on	Power cord not connected; Power outlet faulty; Blown fuse	Check power cord connection; Test power outlet; Replace fuse (see Section 5.3)
No output voltage/current	Output terminals not connected correctly; Output voltage/current set to zero; Overload protection activated	Verify load connections; Adjust voltage/current settings; Reduce load or check for short circuit
Unit overheats	Blocked ventilation; Excessive ambient temperature; Prolonged operation at maximum load	Clear ventilation openings; Ensure adequate airflow; Reduce load or operating time
USB remote control not working	Incorrect MODE setting; USB cable faulty; Driver not installed; Software issue	Set MODE to "Remote Ctrl"; Try a different USB cable; Install correct drivers; Consult software manual or VOLT CRAFT support

7. SPECIFICATIONS

Parameter	Value
Model Number	PPS-11360
Output Voltage	1 - 36 V/DC
Output Current	0 - 5 A
Output Power	180 W
Number of Outputs	2
Input Voltage	100-240V AC, 50/60Hz
Dimensions (L x W x H)	20.8 x 20 x 8 cm
Weight	2.4 kg
Material	Metal
Connector Type	USB
Safety Compliance	CE

8. WARRANTY AND SUPPORT

VOLT CRAFT products are designed for reliability and precision. This product comes with a standard warranty period. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official VOLT CRAFT website.

For technical support, troubleshooting assistance, or spare parts availability, please contact VOLT CRAFT customer service. You can find contact information on the VOLT CRAFT website or in your product documentation.

Availability of spare parts: 1 Year (as per product specifications).



Image 8.1: VOLT CRAFT brand logo.



© 2023 VOLT CRAFT. All rights reserved. Information in this manual is subject to change without notice.