

Tekpower TP152A

Tekpower TP152A DC Variable Power Supply User Manual

Model: TP152A / HY152A

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Tekpower TP152A (also known as HY152A) DC Variable Power Supply. Please read these instructions thoroughly before use and retain them for future reference. This power supply is designed to provide a regulated DC voltage output from 2.2V to 15V at a fixed current of 2 Amperes.

SAFETY INSTRUCTIONS

- Always connect the power supply to a grounded electrical outlet.
- Do not operate the unit in wet or damp conditions.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Do not open the casing of the power supply. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Disconnect power before making or changing connections to the output terminals.
- Verify the voltage and current requirements of the device being powered before connecting it to avoid damage.
- Keep children away from the power supply during operation.

PRODUCT OVERVIEW

The Tekpower TP152A is a compact DC variable power supply featuring an analog voltage meter and adjustable output. Below is a description of its main components.



Figure 1: Front Panel of the TP152A Power Supply. This image displays the front panel, highlighting the analog voltmeter on the left, the red ON/OFF rocker switch, the black voltage adjustment knob, and the red positive (+) and black negative (-) output terminals.

Front Panel Components:

1. **Analog Voltmeter:** Displays the output voltage in Volts (V).
2. **Power Switch:** Rocker switch to turn the unit ON (I) or OFF (O).
3. **Voltage Adjustment Knob:** Rotates to adjust the DC output voltage from 2.2V to 15V.
4. **Output Terminals:** Red terminal for positive (+) output, Black terminal for negative (-) output. These are screw-type terminals that can also accept banana plugs.



Figure 2: Rear Panel of the TP152A Power Supply. This image shows the rear of the unit, including the attached power cord, regulatory compliance markings (CE, RoHS), and a label detailing input/output specifications and fuse information.

Rear Panel Components:

1. **AC Input Power Cord:** Permanently attached cord for connecting to a standard AC power outlet.
2. **Product Label:** Provides input voltage range (AC 90V-253V), output specifications (DC 2.2-15V, 2A), and fuse rating (2A, F).
3. **Ventilation Grilles:** Located on the sides and top for heat dissipation.

SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect the unit for any signs of damage.
2. **Placement:** Place the power supply on a stable, level surface with adequate ventilation. Ensure that the ventilation grilles are not obstructed.
3. **Initial Power Connection:**
 - Ensure the power switch on the front panel is in the "OFF" (O) position.
 - Plug the AC input power cord into a standard, grounded electrical outlet.
4. **Pre-Operation Check:** Before connecting any device, turn the power supply ON (I) and observe the analog voltmeter. Rotate the voltage adjustment knob to ensure the meter responds and shows a variable voltage output. Turn the unit OFF (O) before proceeding to connect a load.

OPERATING INSTRUCTIONS

Follow these steps to safely operate your Tekpower TP152A DC Variable Power Supply.

1. **Prepare the Load:** Ensure the device you intend to power is turned off and its power requirements (voltage and current) are within the specifications of the TP152A (2.2-15V DC, max 2A).
2. **Connect the Load:**
 - With the power supply OFF, connect the positive (+) lead of your device to the red output terminal.

- Connect the negative (-) lead of your device to the black output terminal.
 - Ensure connections are secure. The terminals can accept stripped wires or banana plugs.
3. **Set Initial Voltage:** Rotate the voltage adjustment knob counter-clockwise to its minimum setting (fully left).
 4. **Power On:** Flip the power switch to the "ON" (I) position. The analog voltmeter will show the current output voltage.
 5. **Adjust Voltage:** Slowly rotate the voltage adjustment knob clockwise to increase the output voltage to the desired level for your device. Observe the analog voltmeter for the current voltage reading.
 6. **Monitor Operation:** During operation, periodically check the power supply for any unusual heat or noise. The unit is designed for a fixed 2A current output.
 7. **Power Off:** When finished, first turn off the device connected to the power supply. Then, rotate the voltage adjustment knob counter-clockwise to its minimum setting. Finally, flip the power switch to the "OFF" (O) position.
 8. **Disconnect Load:** Disconnect the leads from the output terminals.



Figure 3: Example of Output Connections. This image illustrates how clip cords can be connected to the positive (red) and negative (black) output terminals of the power supply.

MAINTENANCE

- **Cleaning:** Disconnect the power supply from the AC outlet before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation grilles are free from dust and debris. Use compressed air if necessary to clear obstructions.
- **Storage:** When not in use for extended periods, store the power supply in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Fuse Replacement:** The fuse is located internally. If the unit fails to power on, it may indicate a blown fuse. Fuse replacement should only be performed by qualified service personnel. Refer to the product label for the correct fuse rating (2A, F).

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power / Unit does not turn on.	Power cord not securely plugged in. Wall outlet has no power. Internal fuse is blown.	Check power cord connection to both the unit and the wall outlet. Test the wall outlet with another device. Contact qualified service personnel for fuse replacement.
No voltage output.	Voltage adjustment knob set to minimum. Output terminals not properly connected. Overload condition.	Rotate the voltage adjustment knob clockwise to increase voltage. Ensure leads are securely connected to the output terminals. Disconnect the load, turn off the power supply, wait a few minutes, then restart. Reduce load if possible.
Voltage reading is unstable or incorrect.	Loose connections. Faulty load device. Internal component issue.	Check all connections for tightness. Test with a different load device or use a separate multimeter to verify output voltage. Contact customer support if the issue persists.

SPECIFICATIONS

Parameter	Value
Model	TP152A / HY152A
Input Voltage	AC 90V - 253V
Output Voltage	DC 2.2V - 15V (Adjustable)
Output Current	2 Amperes (Fixed)
Fuse Rating	2A, F
Dimensions (L x W x H)	6 x 5 x 2.75 inches (15.24 x 12.7 x 6.98 cm)
Weight	1.35 pounds (0.61 kg)
Certifications	CE Approved, RoHS Compliant

WARRANTY AND SUPPORT

The Tekpower TP152A DC Variable Power Supply comes with a **1-year warranty** in the US, covering defects in materials and workmanship under normal use. This warranty does not cover damage caused by misuse, accident, unauthorized modification, or improper operation.

For technical support, warranty claims, or service inquiries, please contact Tekpower customer service. Please have your product model number (TP152A or HY152A) and purchase information available when contacting support.

For more information, visit the official Tekpower website or refer to your purchase documentation.

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

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Email

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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