

EverSale RS-150-5

Mean Well RS-150-5 5V UL Listed Power Supply Instruction Manual

Model: RS-150-5

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Mean Well RS-150-5 5V UL Listed Power Supply. Please read this manual thoroughly before installation and retain it for future reference. This power supply is designed to convert AC input voltage to a stable 5V DC output for various electronic applications.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation should only be performed by qualified personnel.

- Ensure the power supply is disconnected from the main AC power source before any installation, wiring, or maintenance procedures.
- This unit is designed for indoor use only. Do not expose to moisture or extreme temperatures.
- Proper grounding is essential to prevent electric shock. Ensure the ground terminal is correctly connected.
- Do not operate the unit if it is damaged or if any components are loose.
- **Input Voltage Selection:** The input voltage can be changed by a switch. **Always check the input voltage setting before powering on to avoid damage to the unit.** Refer to the product label for the switch location and settings.
- Ensure adequate ventilation around the power supply to prevent overheating.



Image 1: Top view of the power supply, highlighting the perforated casing for ventilation and the critical input voltage warning sticker.

3. PRODUCT OVERVIEW

The Mean Well RS-150-5 is a 150W single output enclosed type power supply, providing a stable 5V DC output. It features a universal AC input range and is designed for industrial control, automation, and various electronic applications requiring a reliable 5V power source. The unit is housed in a metal casing with ventilation holes for heat dissipation.



Image 2: Bottom view of the power supply, displaying the Mean Well brand logo.

Key Components:

- **AC Input Terminals (L, N,):** For connecting the Live, Neutral, and Ground wires from your AC power source.
- **DC Output Terminals (+V, -V):** For connecting your 5V DC load.
- **+V ADJ Potentiometer:** A small screw for fine-tuning the output voltage.
- **LED Indicator:** Illuminates when the power supply is operating correctly.
- **Input Voltage Selector Switch:** (Refer to safety section) Allows selection between different AC input voltage ranges (e.g., 115V/230V).



Image 3: Detailed view of the terminal block, showing AC input, DC output, and the voltage adjustment screw.

4. SETUP AND INSTALLATION

Follow these steps for proper installation. Ensure all safety precautions are observed.

- 1. Mounting:** Securely mount the power supply in a well-ventilated area using appropriate screws. Ensure there is sufficient clearance for airflow around the unit.
- 2. Input Voltage Selection:** Locate the input voltage selector switch (usually a small red or white switch near the AC input terminals). **Set the switch to match your local AC mains voltage (e.g., 115V or 230V) before connecting any wires. Failure to do so will damage the unit.**
- 3. AC Input Wiring:**
 - Connect the Live (L) wire from your AC source to the 'L' terminal.
 - Connect the Neutral (N) wire from your AC source to the 'N' terminal.
 - Connect the Ground () wire from your AC source to the ground terminal.
 - Ensure all connections are tight and secure.
- 4. DC Output Wiring:**
 - Connect the positive (+) lead of your load to one of the '+V' terminals.
 - Connect the negative (-) lead of your load to one of the '-V' terminals.
 - Ensure correct polarity and secure connections.
- 5. Initial Power On:** After verifying all connections and the input voltage selection, connect the power supply to the AC mains. The LED indicator should illuminate, indicating normal operation.

5. OPERATING INSTRUCTIONS

- **Power On/Off:** The power supply will turn on when AC power is applied and turn off when AC power is removed. It does not have a dedicated power switch.
- **Output Voltage Adjustment:** The output voltage can be slightly adjusted using the '+V ADJ' potentiometer. Use a small flat-head screwdriver to carefully turn the potentiometer clockwise to increase the voltage or counter-clockwise to decrease it. Monitor the output voltage with a multimeter during adjustment. Do not exceed the specified voltage range.
- **LED Indicator:** A green LED indicates that the power supply is operating and providing output voltage. If the LED is off, check the AC input and output connections.

6. MAINTENANCE

The Mean Well RS-150-5 power supply is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure longevity.

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth to remove dust. Ensure the power supply is disconnected from all power sources before cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure that the ventilation holes are not obstructed by dust or debris. Maintain adequate clearance around the unit for proper airflow.
- **Connection Check:** Periodically inspect all wiring connections for tightness and signs of corrosion or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No output voltage / LED off	No AC input power Incorrect input voltage selection Faulty wiring Internal fault	Check AC power source and connections. Verify input voltage switch setting. Inspect all wiring for loose connections or damage. If problem persists, discontinue use and contact support.
Output voltage too high/low	'+V ADJ' potentiometer setting incorrect	Adjust the '+V ADJ' potentiometer carefully with a multimeter.
Overheating	Insufficient ventilation Overload	Ensure adequate airflow around the unit. Remove any obstructions. Reduce the load connected to the power supply.

If you encounter issues not listed here or if troubleshooting steps do not resolve the problem, please contact technical support.

8. SPECIFICATIONS

Parameter	Value
Manufacturer	Mean Well
Model Number	RS-150-5
Output Voltage	5V DC
Current Rating	40 Amps
Power Output	150W (Nominal, based on model series)
Input Voltage	Universal AC input (typically 85-264VAC, switch selectable for 115V/230V)
Product Dimensions	7.83 x 3.86 x 1.5 inches
Item Weight	1.45 pounds
Certifications	UL, TUV
UPC	647336001440

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller, EverSale, directly. You may also visit the official Mean Well website for product datasheets and additional support resources.

Seller Contact: [EverSale on Amazon](#)