

ZLDRSLUZ RSP-200-13.5V

ZLDRSLUZ RSP-200-13.5V 200W Switching Power Supply User Manual

MODEL: RSP-200-13.5V

1. Safety Instructions

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Qualified Personnel:** Installation and maintenance should only be performed by qualified personnel.
- **Power Disconnection:** Always disconnect the AC input power before performing any installation, wiring, or maintenance.
- **Proper Grounding:** Ensure the power supply is properly grounded to prevent electric shock.
- **Ventilation:** Install the unit in a well-ventilated area. Do not block ventilation openings. Maintain adequate clearance around the unit for proper heat dissipation.
- **Indoor Use:** This power supply is designed for indoor use only. Avoid exposure to moisture, dust, and extreme temperatures.
- **Load Matching:** Do not exceed the rated output power or current. Ensure the load is compatible with the power supply's specifications.
- **Terminal Connections:** Ensure all terminal connections are secure and correct to prevent short circuits or damage.

2. Product Overview

The ZLDRSLUZ RSP-200 series is a 200W single output DC switching power supply. This specific model, RSP-200-13.5V, provides a stable 13.5V DC output, suitable for various industrial and commercial applications requiring reliable power conversion.

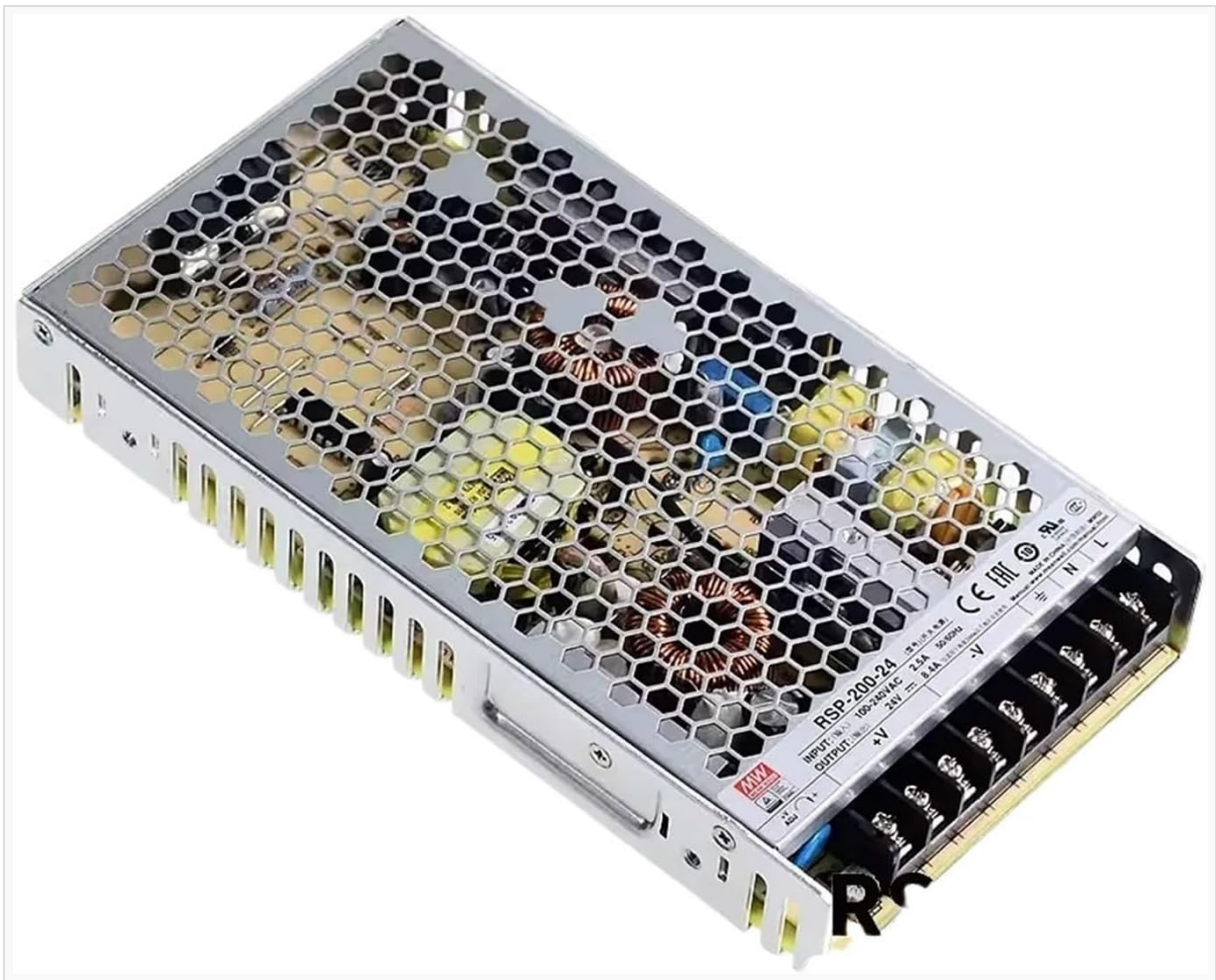


Image 1: Top view of the ZLDRSLUZ RSP-200-13.5V 200W Switching Power Supply, showing the protective mesh casing and internal components.

Key features include high efficiency, compact design, and built-in protection mechanisms to ensure stable and safe operation.

3. Setup

Follow these steps for proper installation of your RSP-200-13.5V power supply:

1. **Unpacking:** Carefully remove the power supply from its packaging and inspect it for any physical damage.
2. **Mounting:** Mount the power supply on a stable, non-flammable surface using appropriate screws. Ensure there is sufficient space (at least 10-15 cm) around the unit for air circulation to prevent overheating. The unit can be mounted horizontally or vertically, but horizontal mounting is generally preferred for optimal heat dissipation.
3. **Wiring - AC Input:**
 - Connect the AC Live (L) wire to the 'L' terminal.
 - Connect the AC Neutral (N) wire to the 'N' terminal.
 - Connect the Earth Ground (PE) wire to the '⊥' (ground) terminal.

Ensure all AC input wires are of appropriate gauge for the current draw and are securely fastened.

4. **Wiring - DC Output:**

- Connect the positive (+) terminal of your load to the '+V' terminal on the power supply.
- Connect the negative (-) terminal of your load to the '-V' terminal on the power supply.

Verify correct polarity before connecting the load.

5. **Voltage Adjustment (Optional):** If minor output voltage adjustment is required, locate the 'V.ADJ' potentiometer (usually a small screw) on the unit. Use a non-conductive screwdriver to carefully turn it clockwise to increase voltage or counter-clockwise to decrease voltage within the specified range. Do not adjust beyond the recommended range.



Image 2: Detailed view of the input and output terminals on the ZLDRSLUZ RSP-200 series power supply, showing AC input (L, N, \perp) and DC output (+V, -V) connections, and the 'V.ADJ' potentiometer.

4. Operating Instructions

Once the power supply is correctly installed and wired:

1. **Initial Power-Up:** Apply AC power to the input terminals. The power supply should power on, and an indicator LED (if present) may illuminate.
2. **Load Connection:** Connect your DC load to the output terminals. Ensure the load's current draw does not exceed the power supply's rated output current (14.81A for the 13.5V model).
3. **Monitoring:** Observe the operation of your connected device. The power supply is designed to provide a stable 13.5V DC output.
4. **Overload Protection:** In case of an overload or short circuit, the power supply's protection circuits will activate, potentially shutting down the output or limiting the current. Disconnect the load, resolve the issue, and then cycle the power to reset the unit.

5. Maintenance

The RSP-200-13.5V power supply requires minimal maintenance. Adhere to the following guidelines:

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Ensure ventilation openings are free from dust and debris. **Always disconnect power before cleaning.**

- **Inspection:** Regularly inspect all wiring connections for tightness and signs of wear or damage. Check for any unusual noises, smells, or discoloration.
- **No User-Serviceable Parts:** This power supply contains no user-serviceable parts. Do not attempt to open or repair the unit yourself. Doing so will void the warranty and may pose a safety risk.

6. Troubleshooting

If you encounter issues with your power supply, refer to the following troubleshooting steps:

- **No Output Power:**
 - Check if the AC input power is connected and active.
 - Verify that the input fuse (if accessible) is intact.
 - Ensure all input and output wiring connections are secure.
- **Incorrect Output Voltage:**
 - Check the 'V.ADJ' potentiometer setting. Adjust it carefully if necessary.
 - Ensure the load is not drawing excessive current, which could cause voltage drop.
- **Overload/Short Circuit Protection Activated:**
 - Disconnect the load immediately.
 - Inspect the load and wiring for short circuits or excessive current draw.
 - Once the fault is cleared, cycle the AC input power (turn off, wait 30 seconds, then turn on) to reset the power supply.
- **Overheating:**
 - Ensure adequate ventilation around the unit. Clear any obstructions from the ventilation holes.
 - Reduce the load if it is consistently operating near the maximum rated power.

If the problem persists after following these steps, contact technical support.

7. Specifications

Parameter	Value
Model	RSP-200-13.5V
Input Voltage	100-240VAC, 50/60Hz
Output Voltage	13.5V DC
Output Current	14.81A (Max)
Rated Power	200W
Efficiency	High Efficiency
Protections	Overload, Short Circuit, Over Voltage
Operating Temperature	-20°C to +70°C (Refer to derating curve if available)
Dimensions	Compact industrial design

8. Warranty and Support

For warranty information, technical support, or service inquiries, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase. Do not attempt to repair the unit yourself, as this will void any applicable warranty.