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› PPOZYLPC S-360-12 12VDC 30A 360W Switching Power Supply User Manual

## PPOZYLPC S-360-12

# PPOZYLPC S-360-12 12VDC 30A 360W Switching Power Supply User Manual

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your PPOZYLPC S-360-12 Switching Power Supply. This device converts AC input voltage to a stable 12V DC output, suitable for various applications requiring a reliable 30A, 360W power source. Please read this manual thoroughly before use and retain it for future reference.

## 2. SAFETY INFORMATION

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**WARNING:** Improper installation or use can result in electric shock, fire, or damage to the device. Always follow these safety guidelines:

- Ensure the input voltage switch (110V/220V) is set correctly for your local power supply before connecting. Incorrect setting can damage the unit.
- Disconnect all power before making any connections or adjustments.
- This unit is designed for indoor use only. Do not expose to water, high humidity, or extreme temperatures.
- Ensure proper ventilation around the power supply to prevent overheating. Do not block ventilation openings.
- All wiring should be performed by a qualified electrician or knowledgeable individual.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not open the casing of the power supply. There are no user-serviceable parts inside.
- Grounding is essential for safety. Connect the ground terminal to a reliable earth ground.

## 3. PRODUCT OVERVIEW

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The PPOZYLPC S-360-12 is a high-efficiency switching power supply designed for stable 12V DC output. It features a robust metal casing for durability and heat dissipation.



Figure 3.1: Top-down view of the PPOZYLPC S-360-12 Switching Power Supply, showing the ventilation grille and overall form factor.



Figure 3.2: Angled view of the power supply, highlighting the input/output terminals and the voltage selection switch.



Figure 3.3: Detailed view of the terminal block, showing labeled connections for AC input (L, N, GND) and DC output (+V, -V).

## 4. SETUP AND INSTALLATION

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Follow these steps to safely install your power supply:

1. **Mounting:** Securely mount the power supply in a well-ventilated area using appropriate screws. Ensure there is adequate space around the unit for airflow.
2. **Input Voltage Selection:** Locate the red switch on the side of the unit. Set it to either 110V or 220V according to your local mains voltage. **WARNING:** Verify this setting before connecting to power.
3. **AC Input Wiring:** Connect your AC mains power to the input terminals. Refer to Figure 3.3 for terminal identification:
  - Connect the Live (L) wire to the 'L' terminal.
  - Connect the Neutral (N) wire to the 'N' terminal.
  - Connect the Ground (GND) wire to the '⊗' (ground) terminal.

Ensure all wires are stripped to the correct length and securely fastened in their respective terminals.

4. **DC Output Wiring:** Connect your 12V DC load to the output terminals. Refer to Figure 3.3 for terminal identification:
  - Connect the positive (+) wire of your load to the '+V' terminals.
  - Connect the negative (-) wire of your load to the '-V' terminals.

Multiple '+V' and '-V' terminals are provided for convenience and to distribute current. Ensure the total current drawn by your load does not exceed 30A.

5. **Final Check:** Double-check all connections for correctness and security. Ensure no bare wires are exposed.

## 5. OPERATION

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After completing the setup and safety checks:

1. Apply AC power to the unit. The power supply should turn on, and the internal fan (if present) may start.
2. Verify that your connected 12V DC load is receiving power and operating as expected.
3. The output voltage can be finely adjusted using the small potentiometer (V ADJ) located near the output terminals. Use a small screwdriver to turn it clockwise to increase voltage or counter-clockwise to decrease it within a small range.

## 6. MAINTENANCE

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The PPOZYLPC S-360-12 is designed for minimal maintenance. However, periodic checks can ensure optimal performance and longevity:

- **Cleaning:** Periodically clean the exterior of the unit with a dry, soft cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Ventilation:** Ensure the installation area remains well-ventilated and free from obstructions.
- **Connections:** Occasionally check all wiring connections to ensure they remain tight and secure. Loose connections can cause overheating or intermittent operation.
- **Environmental Conditions:** Avoid operating the unit in environments with excessive dust, moisture, or extreme temperatures.

## 7. TROUBLESHOOTING

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If you encounter issues with your power supply, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
No output voltage / Unit not powering on	<ul style="list-style-type: none"> <li>No AC input power</li> <li>Incorrect input voltage switch setting (110V/220V)</li> <li>Loose wiring connections</li> <li>Internal fuse blown</li> </ul>	<ul style="list-style-type: none"> <li>Check AC power source and cable.</li> <li>Verify the 110V/220V switch is set correctly.</li> <li>Inspect and tighten all input and output wiring.</li> <li>If fuse is suspected, contact support; do not attempt to replace yourself.</li> </ul>
Output voltage too low/high	<ul style="list-style-type: none"> <li>V ADJ potentiometer setting</li> <li>Overload condition</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the V ADJ potentiometer with a small screwdriver.</li> <li>Reduce the load connected to the power supply. Ensure total current draw is below 30A.</li> </ul>
Unit overheating	<ul style="list-style-type: none"> <li>Insufficient ventilation</li> <li>Overload condition</li> </ul>	<ul style="list-style-type: none"> <li>Ensure adequate airflow around the unit; clear any obstructions.</li> <li>Reduce the load connected to the power supply.</li> </ul>
Intermittent power	<ul style="list-style-type: none"> <li>Loose wiring connections</li> <li>Faulty load</li> </ul>	<ul style="list-style-type: none"> <li>Check and tighten all input and output wiring.</li> <li>Test the power supply with a different, known-good load.</li> </ul>

If the problem persists after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

Model Number	S-360-12
Input Voltage	110V / 220V AC (Switchable)
Output Voltage	12V DC
Output Current	30A
Output Power	360W
Dimensions (L x W x H)	Approximately 1.18 x 0.79 x 0.39 inches (Package Dimensions)
Item Weight	1.06 ounces / 30 Grams
Brand	PPOZYLPC

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the seller's policies or contact the retailer from whom you purchased this product. Keep your purchase receipt as proof of purchase.

