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Logisys PS480D

Logisys PS480D 480W ATX Power Supply User Manual

Model: PS480D

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient use of your Logisys PS480D 480W ATX Power Supply. Please read this manual thoroughly before installation and operation to ensure proper functionality and to prevent damage to the unit or other components.



Figure 1: Logisys PS480D 480W ATX Power Supply, front view with cables bundled.

2. SAFETY INFORMATION

WARNING: Power supplies contain high voltage components. Do not open the power supply casing. There are no user-serviceable parts inside.

- Ensure the power supply is disconnected from the AC outlet before installation or maintenance.
- Always ground yourself to prevent electrostatic discharge (ESD) when handling internal computer components.
- Do not operate the power supply in wet or damp conditions.

- Ensure proper ventilation around the power supply to prevent overheating.
- Use only the provided power cables and connectors.

3. PRODUCT FEATURES

The Logisys PS480D is a 480W ATX power supply designed for personal computers. Key features include:

- High Efficiency
- Low Noise & Ripple
- Over Voltage Protection
- Short Circuit Protection
- Built-in EMI Filter
- Insulation Resistance 100MΩ min.
- Complies with FCC part 15J class B 115VAC operation and CISPR 22 230 VAC operation.
- Meets UL 1950, CSA 22.2 LEVEL 3 Requirement.
- 100% Burn-in test / Vibration test / Hi-pot test / Leakage current test.
- MTBF above 100,000 hours at 25 °C.



Figure 2: Rear panel of the power supply with fan, AC inlet, and power switch.

4. SETUP AND INSTALLATION

Follow these steps to install the Logisys PS480D power supply into your computer system.

1. **Preparation:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case according to its manufacturer's instructions.
2. **Remove Old Power Supply (if applicable):** Disconnect all cables from the old power supply to the motherboard, drives, and other components. Unscrew and remove the old power supply from the case.
3. **Install New Power Supply:** Carefully place the Logisys PS480D into the power supply bay of your computer case. Secure it with screws.
4. **Connect Main Power:** Connect the 20+4 pin ATX mainboard connector to your motherboard. If your motherboard uses a 20-pin connector, detach the 4-pin section. If it uses a 24-pin connector, connect both sections.
5. **Connect CPU Power:** Connect the 4-pin +12V power connector to the corresponding port on your motherboard.
6. **Connect Peripheral Power:**
 - Use the 4-pin standard drive connectors for HDDs and CD/DVD-ROM drives.
 - Use the 4-pin 3.5" FDD or ZIP connectors for floppy disk drives or similar devices.
 - Use the Serial ATA (SATA) connectors for SATA hard drives and SSDs.

7. **Cable Management:** Route cables neatly to ensure proper airflow within the case.
8. **Close Case:** Once all connections are secure, close your computer case.
9. **Connect AC Power:** Plug the AC power cord into the power supply's AC inlet and then into a wall outlet.

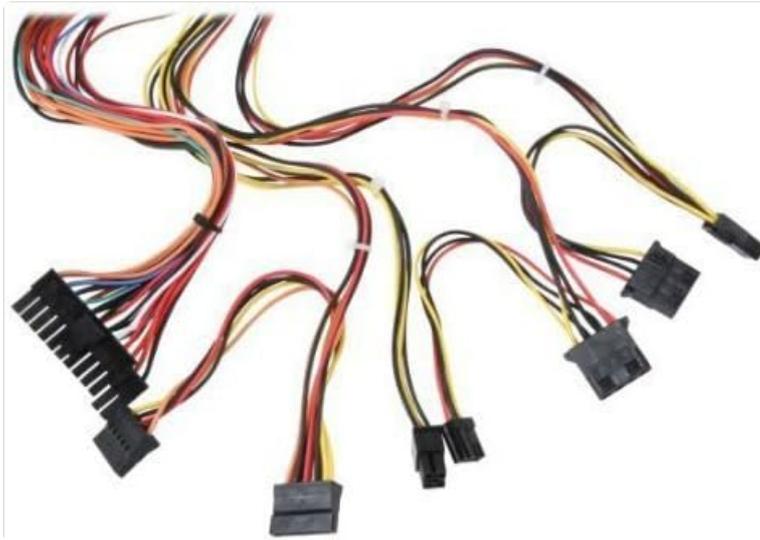


Figure 3: Overview of power supply connectors.



Figure 4: Power supply dimensions and included AC power cord.

5. OPERATING INSTRUCTIONS

After successful installation, you can power on your computer.

1. Ensure the power switch on the rear of the power supply (Figure 2) is in the "ON" (I) position.
2. Press the power button on your computer case.
3. The power supply will provide stable power to your system components.
4. To power off, shut down your operating system normally. For complete power disconnection, switch the power supply to the "OFF" (O) position and unplug the AC cord.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your power supply.

- **Cleaning:** Periodically clean dust from the power supply's fan and vents using compressed air. Ensure the power supply is unplugged before cleaning.
- **Airflow:** Ensure that the computer case has adequate airflow and that the power supply's fan is not obstructed.
- **Cable Integrity:** Periodically check all power cables for secure connections and signs of wear or damage.

7. TROUBLESHOOTING

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

- **No Power:**

- Check if the AC power cord is securely plugged into both the power supply and the wall outlet.
- Ensure the power switch on the rear of the power supply is in the "ON" (I) position.
- Verify that the wall outlet is functional by plugging in another device.
- Check all internal power connections (20/24-pin ATX, 4-pin +12V, peripheral connectors) are firmly seated.

- **System Instability/Random Shutdowns:**

- This could indicate an overloaded or failing power supply. Ensure your system's power requirements do not exceed the PS480D's 480W capacity.
- Check for proper ventilation and ensure the power supply fan is spinning. Overheating can cause instability.

- **Unusual Noise:**

- A loud fan noise might indicate dust buildup or a failing fan bearing. Clean the fan as described in the Maintenance section.

If problems persist after attempting these steps, contact Logisys customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Brand	Logisys
Model Number	PS480D
Output Wattage	480 Watts
Form Factor	ATX
Dimensions (LxWxH)	6" L x 5.5" W x 3.25" H (15.24 x 13.97 x 8.25 cm)
Item Weight	2.06 pounds (0.93 kg)
Mainboard Connector	1x 20+4 Pin ATX
CPU Power Connector	1x 4 Pin +12V
Standard Drive Connectors	4x 4 Pin (Molex)
FDD/ZIP Connectors	1x 4 Pin 3.5"
Serial ATA Connectors	1x SATA
Cooling Method	Air
Protections	Over Voltage Protection, Short Circuit Protection
Certifications	FCC part 15J class B, CISPR 22, UL 1950, CSA 22.2 LEVEL 3

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Logisys website or contact their customer service department. Keep your purchase receipt as proof of purchase.

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