HP HTSNS-PL18

HP 750W Power Supply Unit (PSU) Instruction Manual

Model: HTSNS-PL18 | Part Numbers: 511778-001, 506822-201, 506821-001

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your HP 750W Power Supply Unit (PSU). The HP HTSNS-PL18 is a robust power supply designed for reliable performance in various computing environments, particularly server applications. It delivers 750W DC power and is known for its durability.
Key features include:

- Brand: HP
- Model: HTSNS-PL18
- Generic Part Number: 506821-001
- Part Number: 506822-201
- Spare Part Number: 511778-001
- Unit Part Number: PS-2751-2CB-LF
- DC Power Output: 750W

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your HP 750W PSU. These power supplies are typically used in server racks or custom setups that may require additional components such as breakout boards and specific power cables.

2.1 Unpacking and Inspection

Carefully remove the PSU from its packaging. Inspect the unit for any signs of physical damage. If any damage is observed, do not proceed with installation and contact your supplier.

2.2 Required Additional Components

Note that these PSUs often require a separate breakout board and compatible power cables for connection to components like GPUs or motherboards. These items are typically not included with the PSU and must be acquired separately.

Image 2.1: Top view of two HP 750W PSUs, highlighting the regulatory model number HTSNS-PL18 and various part numbers including 506821-001, 506822-201, and 511778-001. The serial number 5AQXF0BLLYWFHR is visible on one unit.

2.3 Physical Installation

1. Ensure the system is powered off and disconnected from the main power source.

2. Identify the appropriate slot or mounting location for the PSU within your server chassis or custom build.

3. Slide the PSU into the designated bay until it is securely seated.

4. Secure the PSU using any provided screws or locking mechanisms.

Image 2.2: Detailed view of the HP PSU label, displaying the Hewlett Packard company name, regulatory model HTSNS-PL18, generic part number 506821-001, part number 506822-201, and spare part number 511778-001. Input and output specifications are also visible.

2.4 Electrical Connections

1. Connect the AC power cord to the PSU's input port.
2. If using a breakout board, connect the PSU to the breakout board.
3. Connect the necessary power cables from the breakout board (or directly from the PSU, if applicable) to your system components (e.g., motherboard, graphics cards). Ensure all connections are firm and correct.

Image 2.3: Front view of two HP 750W PSUs, illustrating the cooling fans labeled "750W" and the AC power input receptacles.

Image 2.4: Rear view of two HP 750W PSUs, displaying the gold-plated electrical connectors that interface with a server backplane or breakout board.

2.5 Setup Video Guide

For a visual guide on setting up these power supplies, including their use with breakout boards, please refer to the video below. This video discusses the reliability and application of these HP 750W server PSUs.

Your browser does not support the video tag.

Video 2.1: An overview of the HP 750W server PSUs, discussing their reliability and the necessity of separate breakout boards and power cables for typical applications. The video shows the PSUs in a mining rig setup.

3. OPERATING INSTRUCTIONS

Once installed and connected, the HP 750W PSU operates automatically with your system. Ensure that the total power draw of your components does not exceed the PSU's rated 750W output.

- **Power On:** After all connections are secure, connect the main power cord to a wall outlet. The PSU should power on with your system.
- **Monitoring:** Some breakout boards or system monitoring tools may provide real-time power consumption data. Monitor these to ensure stable operation.
- **Shutdown:** Always shut down your system properly through the operating system before disconnecting power.

4. MAINTENANCE

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

- **Dust Removal:** Periodically clean the PSU's fan and vents to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air for this purpose, ensuring the system is powered off and unplugged.
- **Cable Management:** Ensure all cables are neatly routed and not obstructing airflow within the system.
- **Environmental Conditions:** Operate the PSU in a well-ventilated area with stable temperature and humidity to prevent stress on components.

5. TROUBLESHOOTING

If you encounter issues with your HP 750W PSU, refer to the following troubleshooting steps:

- **No Power:**

  - Check if the AC power cord is securely connected to both the PSU and the wall outlet.
  - Verify that the wall outlet is functional by plugging in another device.
  - Ensure the power switch on the PSU (if present) is in the 'On' position.

- **System Instability/Random Shutdowns:**

  - This could indicate insufficient power. Verify that the total wattage required by your components does not exceed 750W.
  - Check for overheating. Ensure proper ventilation and clean any dust from the PSU and system components.
  - Inspect all power connections for looseness or damage.

- **Unusual Noises:**

  - A loud fan noise might indicate the PSU is under heavy load or that the fan is obstructed/failing. Clean the fan.
  - Any buzzing or crackling sounds should prompt immediate shutdown and disconnection of power. Contact support if this occurs.

If troubleshooting steps do not resolve the issue, contact technical support or a qualified technician.

6. SPECIFICATIONS

Detailed technical specifications for the HP HTSNS-PL18 750W PSU:

Feature	Specification
Brand	HP
Model	HTSNS-PL18
Generic Part Number	506821-001
Part Number	506822-201
Spare Part Number	511778-001
Unit Part Number	PS-2751-2CB-LF
Output Wattage	750 Watts
Compatible Devices	Personal Computer (Server applications)
Connector Type	ATX (requires breakout board for standard PC connections)
Form Factor	AT (Server PSU form factor)

Feature	Specification
Cooling Method	Air (Fan cooled)
Fan Count	2
Maximum Input Voltage	125 Volts (AC)
Product Dimensions (L x W x H)	15 x 10 x 9 inches
Item Weight	4.93 pounds

7. WARRANTY AND SUPPORT

This product typically comes with a minimum 90-day warranty. For specific warranty details and to initiate a support request, please refer to the documentation provided by your seller or contact the seller directly. Ensure you retain your proof of purchase for warranty claims.