

HP 230822-001

HP 230822-001 600W Hot Plug RPS User Manual

This manual provides essential information for the installation, operation, and maintenance of your HP 230822-001 component.

PRODUCT OVERVIEW

The HP 230822-001 is a 600W Hot Plug Redundant Power Supply (RPS) designed for use with HP ML530/ML570 series servers. This component ensures reliable power delivery and provides redundancy to maintain system uptime in critical environments.



Image: A collection of various computer components, including a power supply unit similar to the HP 230822-001, alongside other internal and external hardware. This illustrates the type of components found within server systems.

SETUP INSTRUCTIONS

Proper installation is crucial for the optimal performance and longevity of your HP 230822-001 RPS. Always ensure the server is powered off and disconnected from the main power source before beginning installation.

1. **Safety First:** Disconnect all power cables from the server and ensure it is completely powered down.
2. **Locate RPS Bay:** Identify the designated hot-plug power supply bay(s) on your HP ML530/ML570 server.
3. **Insert RPS:** Gently slide the HP 230822-001 RPS into the empty bay until it clicks securely into place. Ensure the latch mechanism engages.

4. **Connect Power:** Connect the appropriate power cable to the newly installed RPS.
5. **Power On:** Reconnect the server to the main power source and power it on. Verify that the RPS status indicator lights are green, indicating proper operation.
6. **Verify Redundancy (if applicable):** If installing a second RPS for redundancy, ensure both units are recognized by the server's system management software.

OPERATING GUIDELINES

The HP 230822-001 is designed for continuous operation within specified environmental conditions. Adhering to these guidelines will ensure stable and efficient power delivery.

- **Environmental Control:** Operate the server in a clean, temperature-controlled environment to prevent overheating and dust accumulation.
- **Power Monitoring:** Regularly monitor the power supply status through the server's management interface to detect any anomalies early.
- **Hot-Plug Capability:** Utilize the hot-plug feature for replacement or addition of RPS units without powering down the server, but always follow server-specific procedures.
- **Load Management:** Ensure the total power draw of the server components does not exceed the combined capacity of the installed power supplies.

MAINTENANCE

Minimal maintenance is required for the HP 230822-001 RPS, but periodic checks can help extend its lifespan and ensure continued reliability.

- **Dust Removal:** Periodically inspect the server's interior and power supply vents for dust buildup. Use compressed air to gently clear dust, ensuring the server is powered off and unplugged.
- **Cable Integrity:** Check power cables for any signs of wear, fraying, or loose connections. Replace damaged cables immediately.
- **Firmware Updates:** Keep server firmware updated, as this may include updates for power management and power supply compatibility.
- **Status Indicator Check:** Regularly observe the LED status indicators on the RPS unit. A green light typically indicates normal operation. Consult your server's documentation for specific error codes or colors.

TROUBLESHOOTING

If you encounter issues with your HP 230822-001 RPS, refer to the following common problems and solutions.

- **RPS Not Detected / No Power:**

Solution: Ensure the RPS is fully seated in its bay and the power cable is securely connected. Verify the power outlet is functional. If multiple RPS units are installed, try swapping with a known good unit.

- **Amber/Red Status Light:**

Solution: An amber or red light typically indicates a fault. Check the server's system event logs for specific error messages. This may indicate a power supply failure, an overload condition, or an environmental issue. Consider replacing the unit if it's faulty.

- **Server Shuts Down Unexpectedly:**

Solution: This could be due to insufficient power, an overloaded power supply, or a failing unit. Check the server's power consumption and ensure it's within the RPS's capacity. If redundant power supplies are used, check the status of both units.

TECHNICAL SPECIFICATIONS

Attribute	Value
Manufacturer	HP
Part Number / Model	230822-001
Description	600W Hot Plug RPS- MI530/570
ASIN	B00BL2MJZK
Date First Available	February 25, 2013

WARRANTY AND SUPPORT

For specific warranty information regarding your HP 230822-001 component, please refer to the original purchase documentation or contact your vendor. HP provides comprehensive support resources, including online documentation and technical assistance, for their products. Visit the official HP support website for the latest information and contact options.

Note: Warranty terms may vary based on region and purchase agreement.