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› IBM X3550 M4 550W Hot Swap Power Supply User Manual

IBM X3550 M4 550W Hot Swap Power Supply 94Y8112 7001676-J002 94Y8111

IBM X3550 M4 550W Hot Swap Power Supply User Manual

Models: 94Y8112, 7001676-J002, 94Y8111

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your IBM X3550 M4 550W Hot Swap Power Supply. Please read this manual thoroughly before installation and keep it for future reference. This power supply is designed for use in compatible IBM X3550 M4 server systems.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- **Electrical Hazard:** Disconnect all power cords from the server before installing or removing the power supply. Ensure the server is completely powered off.
- **Static Discharge:** Use an electrostatic discharge (ESD) wrist strap or take other anti-static precautions when handling the power supply to prevent damage to sensitive electronic components.
- **Ventilation:** Ensure proper airflow around the server and power supply. Do not block ventilation openings.
- **Qualified Personnel:** Installation and maintenance should only be performed by qualified service personnel.
- **Hot-Swap Caution:** While designed for hot-swapping, always follow server manufacturer guidelines for proper hot-swap procedures to avoid system disruption.

3. PRODUCT OVERVIEW

The IBM X3550 M4 550W Hot Swap Power Supply is a critical component designed to provide reliable power to your server. It features a hot-swap design, allowing for replacement without powering down the entire system, enhancing server uptime and serviceability.



Figure 3.1: Side view of the IBM X3550 M4 550W Hot Swap Power Supply, showing the extraction handle.



Figure 3.2: Top view of the power supply, illustrating its compact form factor.



Figure 3.3: Rear view of the power supply, showing the electrical connectors designed for hot-swap functionality.

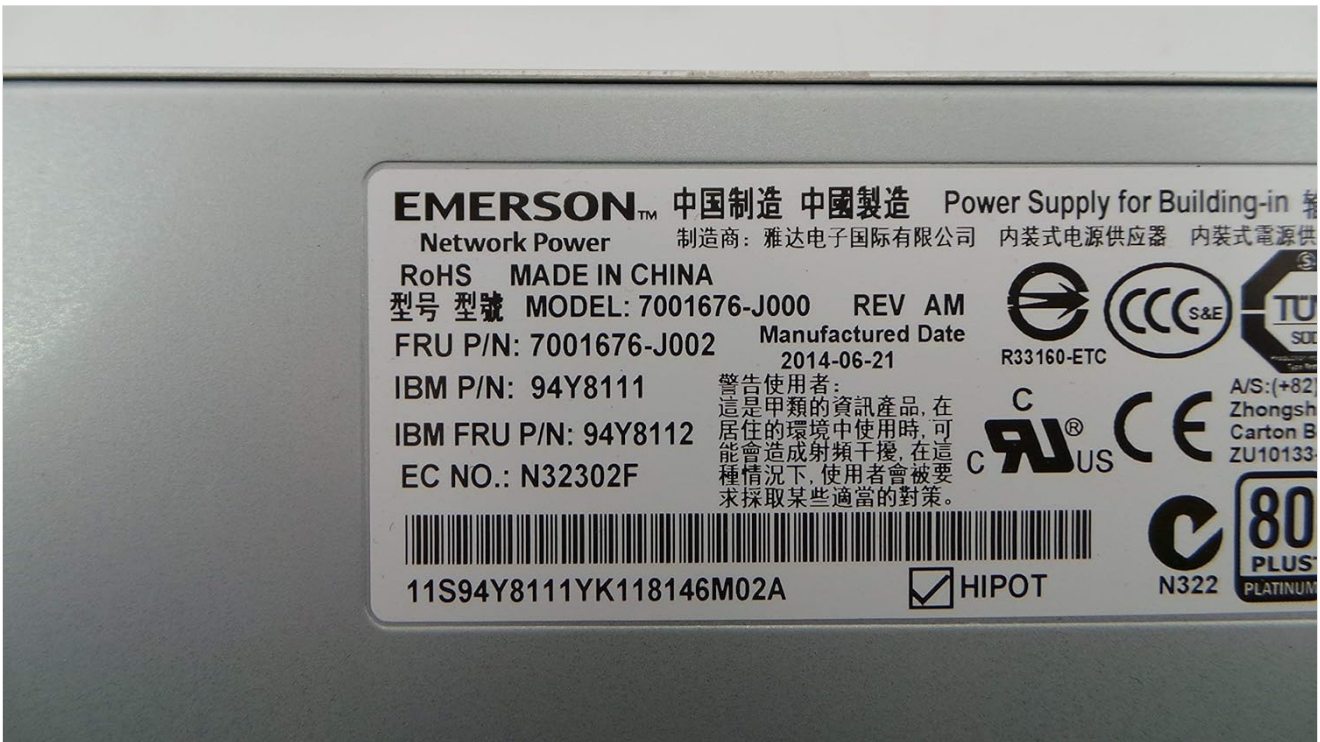


Figure 3.4: Detailed view of the product label, displaying model numbers (e.g., 94Y8111, 7001676-J002) and manufacturing information. The serial number for this unit is [11S94Y8111YK118146M02A](#).

4. SETUP AND INSTALLATION

Follow these steps to properly install the hot-swap power supply into your IBM X3550 M4 server. Refer to your server's documentation for specific bay locations and procedures.

1. **Preparation:** Ensure the server is in a stable environment. If replacing an existing power supply, identify the faulty unit.
2. **Safety First:** Always wear an ESD wrist strap and ensure proper grounding.

3. **Remove Old Unit (if applicable):** If replacing, disconnect the power cord from the old power supply. Press the release latch (if present) and use the handle to slide the old power supply out of its bay.
4. **Insert New Unit:** Align the new power supply with the empty bay. Gently slide the power supply into the bay until it clicks securely into place. Ensure it is fully seated.
5. **Connect Power:** Connect the appropriate power cord to the newly installed power supply and then to a grounded electrical outlet.
6. **Verify:** Check the status indicator lights on the power supply and the server's control panel to confirm proper operation.

5. OPERATING INSTRUCTIONS

Once installed, the power supply operates automatically. It continuously provides power to the server and manages power distribution. Key operational aspects include:

- **Status Indicators:** Most server power supplies include LED indicators. A green or amber light typically indicates operational status. Refer to your server's manual for specific LED meanings.
- **Redundancy:** In systems with multiple power supplies, this unit contributes to power redundancy, ensuring continuous operation even if one power supply fails.
- **Hot-Swap Capability:** This power supply can be replaced while the server is running, provided the server supports hot-swap functionality and has sufficient remaining power capacity from other power supplies.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and reliability of your power supply:

- **Dust Removal:** Periodically inspect the power supply and server for dust accumulation. Use compressed air to gently clean vents and fan areas. Ensure the server is powered off and unplugged before cleaning.
- **Cable Management:** Ensure all power cables are securely connected and not obstructing airflow.
- **Environmental Control:** Operate the server in a clean, temperature-controlled environment to prevent overheating and dust buildup.
- **Inspection:** Visually inspect the power supply for any signs of damage, such as bulging capacitors or burnt components, during routine server maintenance.

7. TROUBLESHOOTING

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

- **No Power:**
 - Verify the power cord is securely connected to both the power supply and the electrical outlet.
 - Check the power outlet with another device to ensure it is functional.
 - Ensure the server's main power switch is in the ON position.
- **Error Indicator Light:**
 - An amber or red indicator light typically signals a fault. Consult your server's documentation for specific error codes or patterns.
 - Attempt to reseat the power supply by sliding it out and reinserting it firmly.
 - If the issue persists, the power supply may be faulty and require replacement.
- **System Instability/Unexpected Shutdowns:**

- This could indicate an intermittent power supply issue or insufficient power.
- Ensure the server's cooling system is functioning correctly to prevent overheating, which can stress power components.
- If multiple power supplies are present, check if one is failing.

If troubleshooting steps do not resolve the issue, contact technical support or consider replacing the unit.

8. SPECIFICATIONS

Feature	Detail
Brand	IBM
Model Numbers	94Y8112, 7001676-J002, 94Y8111
Output Wattage	550 Watts
Type	Hot Swap Power Supply
Compatible Devices	IBM X3550 M4 Personal Computer Servers
UPC	714752780645
Mfr Part Number	94Y8112-cr

9. WARRANTY AND SUPPORT

This IBM X3550 M4 550W Hot Swap Power Supply (Renewed) typically comes with a **30-day warranty** from the seller. Additionally, as an Amazon Renewed product, it is eligible for replacement or refund under the [Amazon Renewed Guarantee](#) if you are not satisfied with your purchase.

For technical support or warranty claims, please contact the seller directly or refer to the Amazon Renewed program details for assistance.