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Seasonic PRIME TX-1000

Seasonic PRIME TX-1000 1000W 80+ Titanium Full Modular Power Supply User Manual

Model: PRIME TX-1000 (SSR-1000TR)

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Seasonic PRIME TX-1000 1000W 80+ Titanium Full Modular Power Supply. Please read these instructions carefully before proceeding with installation to ensure optimal performance and system stability. The Seasonic PRIME TX-1000 is designed for high-performance computing systems, offering 1000 watts of stable power with 80 PLUS Titanium efficiency.



Image: Top-down view of the Seasonic PRIME TX-1000 Power Supply, highlighting its fan grille and power input section.

2. SAFETY INFORMATION

- **Electrical Hazard:** Do not open the power supply unit. High voltages are present inside, even when the unit is unplugged. Opening the casing will void the warranty and poses a risk of electric shock.
- **Ventilation:** Ensure adequate airflow around the power supply. Do not block ventilation openings. Overheating can lead to component damage or system instability.
- **Moisture:** Keep the power supply away from water, humidity, and other liquids.
- **Installation:** Install the power supply in a well-ventilated computer case. Use only the modular cables provided with the unit. Using incompatible cables can cause damage to the power supply and connected components.
- **Grounding:** Always connect the power supply to a grounded electrical outlet.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your Seasonic PRIME TX-1000 package:

- Seasonic PRIME TX-1000 Power Supply Unit
- Modular Cable Set (Motherboard, CPU, PCIe, SATA, Molex)
- AC Power Cable
- PSU and Cable Bags
- Quick Installation Manual
- User Manual (this document)
- Velcro Cable Ties
- Case Badge
- PSU Tester
- Mounting Screws



Image: All components included with the Seasonic PRIME TX-1000, including the power supply unit, various modular cables, and accessories.

4. SETUP AND INSTALLATION

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall outlet. Open your computer case to access the power supply mounting area.
2. **Mount the PSU:** Carefully place the Seasonic PRIME TX-1000 into the designated power supply bay in your computer case. Secure it with the provided mounting screws. Ensure the fan faces the correct direction for optimal airflow (typically facing down if there's a bottom vent, or inwards if mounted at the top).
3. **Connect Modular Cables:** Identify the necessary cables for your motherboard, CPU, graphics card(s), and storage devices. Plug these modular cables firmly into the corresponding ports on the power supply unit.



Image: The modular cable connection panel of the Seasonic PRIME TX-1000, indicating ports for various component connections.

4. **Connect to Components:** Route the connected modular cables through your case and plug them into their respective components (e.g., 24-pin ATX to motherboard, 8-pin EPS to CPU, 6+2-pin PCIe to graphics card, SATA power to SSDs/HDDs).
5. **Cable Management:** Use the provided Velcro cable ties to manage cables, improving airflow and aesthetics.
6. **Final Connections:** Close your computer case. Connect the AC power cable to the power supply and then to a grounded wall outlet.

5. OPERATING INSTRUCTIONS

After installation, ensure the power switch on the back of the power supply is in the 'ON' (I) position. You can then power on your computer using the case's power button.



Image: Rear view of the Seasonic PRIME TX-1000, showing the main power switch and AC power input.

Fan Control Modes

The Seasonic PRIME TX-1000 features advanced fan control, allowing for optimal cooling and noise reduction. The fan operates in three modes:

- **Fanless Mode:** At low loads, the fan remains off for silent operation.
- **Silent Mode:** As load increases, the fan spins at a very low RPM to maintain quiet operation while providing necessary cooling.
- **Cooling Mode:** Under higher loads, the fan speed increases to ensure efficient cooling and maintain optimal operating temperatures for the power supply components.

These modes are automatically managed by the power supply's internal logic based on temperature and load, requiring no user intervention.

6. MAINTENANCE

To ensure the longevity and optimal performance of your power supply, follow these maintenance guidelines:

- **Dust Removal:** Periodically clean dust from the power supply's fan grille and vents using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Ventilation:** Regularly check that the computer case's ventilation paths are clear and unobstructed.
- **Cable Integrity:** Inspect all modular cable connections to ensure they are securely seated.

7. TROUBLESHOOTING

If you encounter issues with your Seasonic PRIME TX-1000, consider the following troubleshooting steps:

- **No Power:**

- Check if the AC power cable is securely connected to both the power supply and the wall outlet.
- Ensure the power switch on the back of the PSU is in the 'ON' (I) position.
- Verify that the 24-pin ATX and 8-pin EPS (CPU) cables are correctly and firmly connected to the motherboard.
- Test the wall outlet with another device to confirm it has power.

- **System Instability/Crashes:**

- Ensure all modular cables are fully seated at both the PSU and component ends.
- Check for proper ventilation within the computer case to prevent overheating.
- If possible, test the power supply with the included PSU tester to confirm basic functionality.

- **Unusual Noises:**

- Ensure no cables are obstructing the fan.
- Clean any dust accumulation from the fan and vents.

If issues persist after performing these checks, contact Seasonic customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Model Number	PRIME TX-1000 (SSR-1000TR)
Output Wattage	1000W
Efficiency Rating	80 PLUS Titanium
Form Factor	ATX12V
Cooling Method	Air (Fan Control: Fanless, Silent, Cooling Mode)
Product Dimensions (L x W x H)	6.7 x 6 x 3.4 inches (170 x 150 x 86 mm)
Item Weight	4.62 pounds (2.1 kg)
Compatible Devices	Personal Computer
Connector Type	ATX (Full Modular)

9. WARRANTY AND SUPPORT

The Seasonic PRIME TX-1000 Power Supply comes with a comprehensive **12-year warranty**, reflecting Seasonic's commitment to quality and reliability. This warranty covers defects in materials and workmanship under normal use. For technical support, warranty claims, or further inquiries, please visit the official Seasonic website or contact their customer service department. Ensure you have your product model number (PRIME TX-1000) and proof of purchase available when seeking support.