Enermax EMT750EWT

Enermax MaxTytan 750W Power Supply User Manual

Model: EMT750EWT

1. INTRODUCTION

The Enermax MaxTytan 750W power supply is an 80 PLUS Titanium certified, full modular unit designed for high-performance computing systems. It features advanced technologies such as Dust Free Rotation (DFR) for fan self-cleaning and smart semi-fanless control for quiet operation. This manual provides essential information for proper installation, operation, and maintenance of your power supply.

2. SAFETY INFORMATION

Please read and understand all safety warnings before installing or operating the power supply. Failure to do so may result in personal injury or damage to the product or system components.

- Ensure the power supply is disconnected from the AC outlet before installation or maintenance.
- Do not open the power supply casing. High voltages are present inside, even when disconnected.
- Install the power supply in a well-ventilated area.
- Use only the modular cables provided with the power supply. Using incompatible cables may cause damage.
- Avoid exposing the power supply to moisture or extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Enermax MaxTytan 750W Power Supply
- Modular Cable Set
- AC Power Cord
- Mounting Screws
- Cable Ties / Velcro Straps
- User Manual

Figure 3.1: Enermax MaxTytan 750W Power Supply and all included accessories, including modular cables, power cord, and documentation.

4. Setup and Installation

Follow these steps to properly install your Enermax MaxTytan power supply into your computer system.

4.1. Physical Installation

1. Ensure your computer case is compatible with ATX form factor power supplies.
2. Mount the power supply into the designated PSU bay in your computer case, typically at the bottom or top rear. Secure it with the provided mounting screws.

Figure 4.1: Front-side view of the Enermax MaxTytan 750W Power Supply, showing the fan grill and the MaxTytan branding.

4.2. Cable Connections

The MaxTytan 750W is a full modular power supply, allowing you to connect only the necessary cables for your system, improving airflow and cable management.

1. Connect the 24-pin ATX motherboard cable to the power supply and your motherboard.
2. Connect the 4+4 pin CPU (EPS) cable(s) to the power supply and your motherboard's CPU power connector(s).
3. Connect the 6+2 pin PCIe cables to the power supply and your graphics card(s).
4. Connect SATA power cables to your storage drives (SSDs, HDDs) and peripheral power cables to other components as needed.
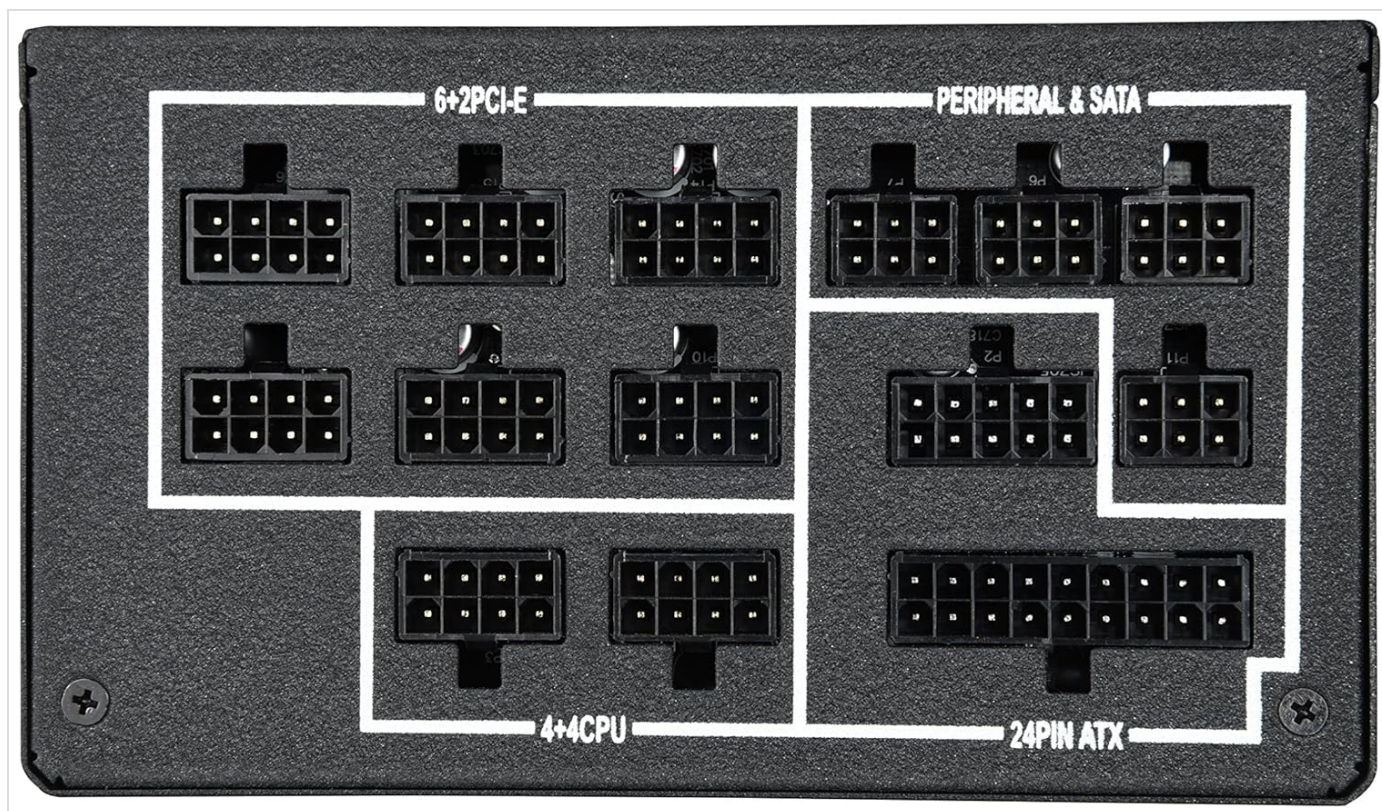5. Ensure all connections are firm and secure.

Figure 4.2: Close-up view of the modular cable connection ports on the power supply, clearly labeled for 24-pin ATX, 4+4 CPU, 6+2 PCIe, and Peripheral & SATA connections.

The included SLEEMAX cables are individually sleeved with premium fabric, providing durability and a smooth, soft texture for easy routing and improved aesthetics.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

After all connections are made, connect the AC power cord to the power supply and a wall outlet. Flip the main power switch on the back of the power supply to the 'ON' position. You can then power on your computer system.

Figure 5.1: Rear view of the power supply, highlighting the main power switch and the D.F. switch for Dust Free Rotation technology.

5.2. Smart Semi-fanless Control

The MaxTytan 750W features a smart semi-fanless control function. The fan remains off for silent operation when the system load is below 55% (approximately 412W at 25°C ambient temperature). Once the load surpasses this threshold, the fan will automatically start spinning to maintain optimal cooling.

5.3. Dust Free Rotation (DFR) Technology

The unique Dust Free Rotation (DFR) technology helps to prevent dust accumulation inside the power supply. Upon startup, the PSU fan performs a self-cleaning spin in reverse for 10 seconds to blow away accumulated dust. Additionally, the dedicated D.F. switch on the rear of the power supply allows users to activate this DFR technology manually at any time during operation.

Video 5.1: An official Enermax video demonstrating the features of the MaxTytan Power Supply, including its 80 PLUS Titanium efficiency, smart semi-fanless control, and the Dust Free Rotation (DFR) technology activated by the D.F. switch.

6. MAINTENANCE

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

- **Dust Removal:** Utilize the DFR technology regularly by pressing the D.F. switch to clear dust from the fan and internal components. For stubborn dust, gently use compressed air while the unit is powered off and disconnected.

- **Cable Inspection:** Periodically check all modular cable connections to ensure they are securely seated.
- **Ventilation:** Ensure that the power supply's intake and exhaust vents are not obstructed to allow for proper airflow.

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 connected to both the power supply and the wall outlet.
    - Ensure the main power switch on the PSU is in the 'ON' position.
    - Verify that all modular cables are correctly connected to the power supply and system components.
    - Test the wall outlet with another device to confirm it has power.

- **Fan Not Spinning:**

    - The MaxTytan features semi-fanless operation. The fan will not spin if the system load is below 55%. This is normal behavior.
    - If the system load is high and the fan is still not spinning, try activating the DFR function using the D.F. switch.

- **System Instability/Crashes:**

    - Ensure your power supply wattage is sufficient for all your system components.
    - Check all power connections for looseness.
    - If issues persist, consult a qualified technician or contact Enermax support.

8. SPECIFICATIONS

Key specifications for the Enermax MaxTytan 750W Power Supply:

Feature	Description
Brand	Enermax
Model Name	MaxTytan
Item Model Number	EMT750EWT
Output Wattage	750 Watts
Efficiency Certification	80 PLUS Titanium
Form Factor	ATX
Cooling Method	Air
Dimensions (LxWxH)	7 x 6 x 3.5 inches
Weight	10 pounds
Capacitors	100% 105°C Japanese electrolytic capacitors
Fan	13.9cm Twister Bearing Fan
Protection Circuitry	OCP, OVP, UVP, OTP, OPP, SCP, SIP

9. WARRANTY AND SUPPORT

The Enermax MaxTytan 750W Power Supply comes with a 10-year warranty, ensuring long-term reliability and peace of mind. For technical support, warranty claims, or further assistance, please visit the official Enermax website or contact their customer service department.

You can find more information and support resources at the Enermax Store on Amazon.