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› Thermaltake Toughpower 1500W 80 Plus Gold Semi Modular PSU ATX 12V or EPS 12V Ultra Quiet Power Supply PS-TPD-1500MPCGUS-1 User Manual

Thermaltake PS-TPD-1500MPCGUS-1

Thermaltake Toughpower 1500W 80 Plus Gold Semi Modular Power Supply User Manual

Model: PS-TPD-1500MPCGUS-1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Thermaltake Toughpower 1500W 80 Plus Gold Semi Modular Power Supply. Please read this manual thoroughly before installation and retain it for future reference.



Image: The Thermaltake Toughpower 1500W Gold power supply unit, showcasing its semi-modular design and large cooling fan.

SAFETY INFORMATION AND WARNINGS

Please read and understand all safety warnings before operating this product. Failure to comply may result in personal injury, product damage, or voiding of warranty.



WARNINGS AND CAUTION

1. **Do not unplug the AC power cord when the power supply is in use.** Doing so may cause damage to your components.
2. Do not place the power supply in **high humidity and /or temperature environment.**
3. High voltages exist in the power supply. **Do not open the power supply case** unless you are an authorized service technician or electrician. Doing so will void the warranty.
4. **The power supply should be powered by the source indicated on the rating label.**
5. **Make sure all cables are plugged in properly.** Loos and improper connections would damage the power supply and your system.
6. Please use only genuine Thermaltake modular cables with Thermaltake power supply models. **Third-party cables might not be compatible and could cause serious damage to your system and power supply.** The warranty is voided with the use of third-party cables.
7. All warranties and guarantees will be voided, if failure to comply with any of the warnings and cautions covered in this label.

Image: A yellow and black warning label detailing important safety precautions for the power supply.

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SETUP AND INSTALLATION

Proper installation is crucial for the stable operation of your power supply. Follow these general guidelines:

1. **Prepare Your System:** Ensure your computer case is compatible with ATX form factor power supplies. Turn off and unplug your computer from the wall outlet before beginning installation.
2. **Mount the PSU:** Carefully slide the power supply into the designated bay in your computer case. Secure it with the provided screws.
3. **Connect Main Power Cables:** Connect the 24-pin ATX main power connector to your motherboard. For the CPU, connect the 8-pin (or 4+4 pin) EPS 12V connector.
4. **Connect Modular Cables:** This power supply features a semi-modular design. Connect only the necessary cables for your components (e.g., PCI-E for graphics cards, SATA for storage drives, Peripheral for other devices) to the corresponding ports on the power supply. Refer to the labels on the PSU for correct connections.



Image: The modular cable connection panel of the power supply, showing clearly labeled PCI-E and Peripheral connectors.

5. **Secure Connections:** Ensure all cables are firmly seated to prevent loose connections, which can lead to instability or damage.
6. **Cable Management:** Route cables neatly within your case to improve airflow and aesthetics.
7. **Connect AC Power:** Once all internal connections are made, connect the AC power cord to the power supply and then to a wall outlet.

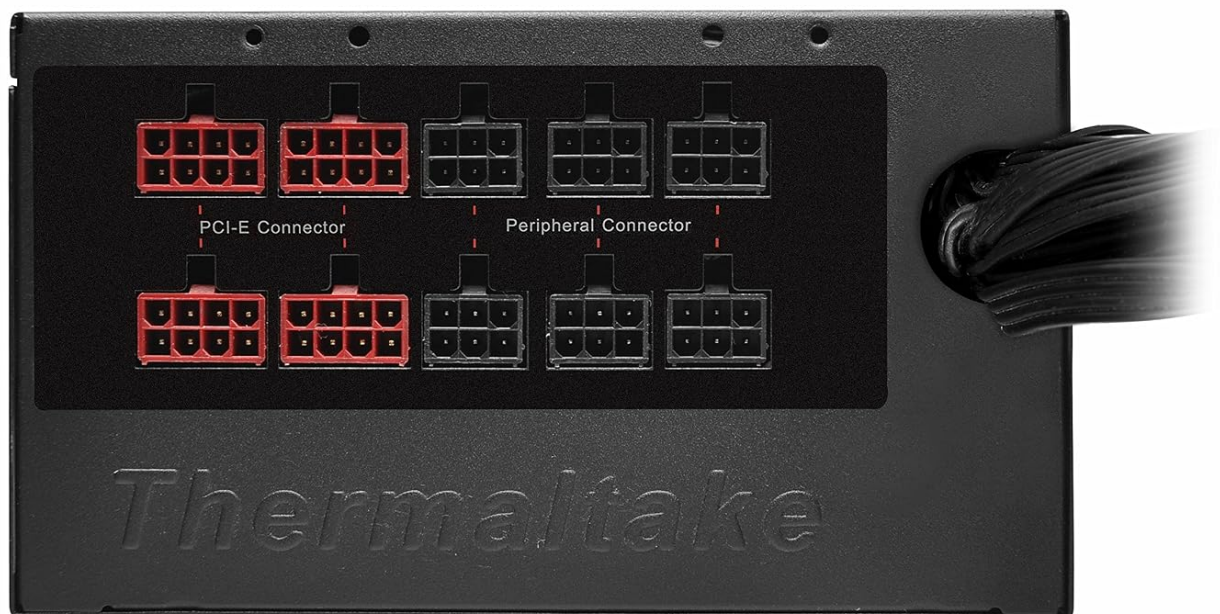


Image: The rear view of the power supply, showing the AC power input and ventilation grille.

OPERATING INSTRUCTIONS

After successful installation, operating your power supply is straightforward:

- **Power On:** Turn on your computer using the case's power button. The power supply will automatically provide power to your components.
- **Monitoring:** While the power supply operates automatically, ensure your system's cooling is adequate to prevent overheating of components, including the PSU.
- **Power Off:** Always shut down your computer through the operating system before turning off the power supply or unplugging it from the wall.

MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the power supply's fan and ventilation grilles using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Check:** Occasionally inspect all connected cables to ensure they remain securely plugged in and are not damaged.
- **Environmental Conditions:** Ensure the power supply is operating in a well-ventilated area, free from excessive heat or humidity.

TROUBLESHOOTING

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

- **No Power:**
 - Check if the AC power cord is securely plugged into both the power supply and the wall outlet.
 - Ensure the wall outlet is functional.
 - Verify all internal power cables (24-pin ATX, EPS 12V, PCI-E, SATA) are correctly and firmly connected.
- **System Instability/Crashes:**
 - Ensure the power supply is adequately rated for all your system components.
 - Check for loose cable connections.
 - Monitor system temperatures to ensure components are not overheating.
- **Loud Fan Noise:**
 - Clean any dust buildup from the power supply fan and grilles.
 - Ensure proper airflow within your computer case.

If problems persist after following these steps, contact Thermaltake customer support for further assistance.

SPECIFICATIONS

Detailed technical specifications for the Thermaltake Toughpower 1500W 80 Plus Gold Semi Modular Power Supply:

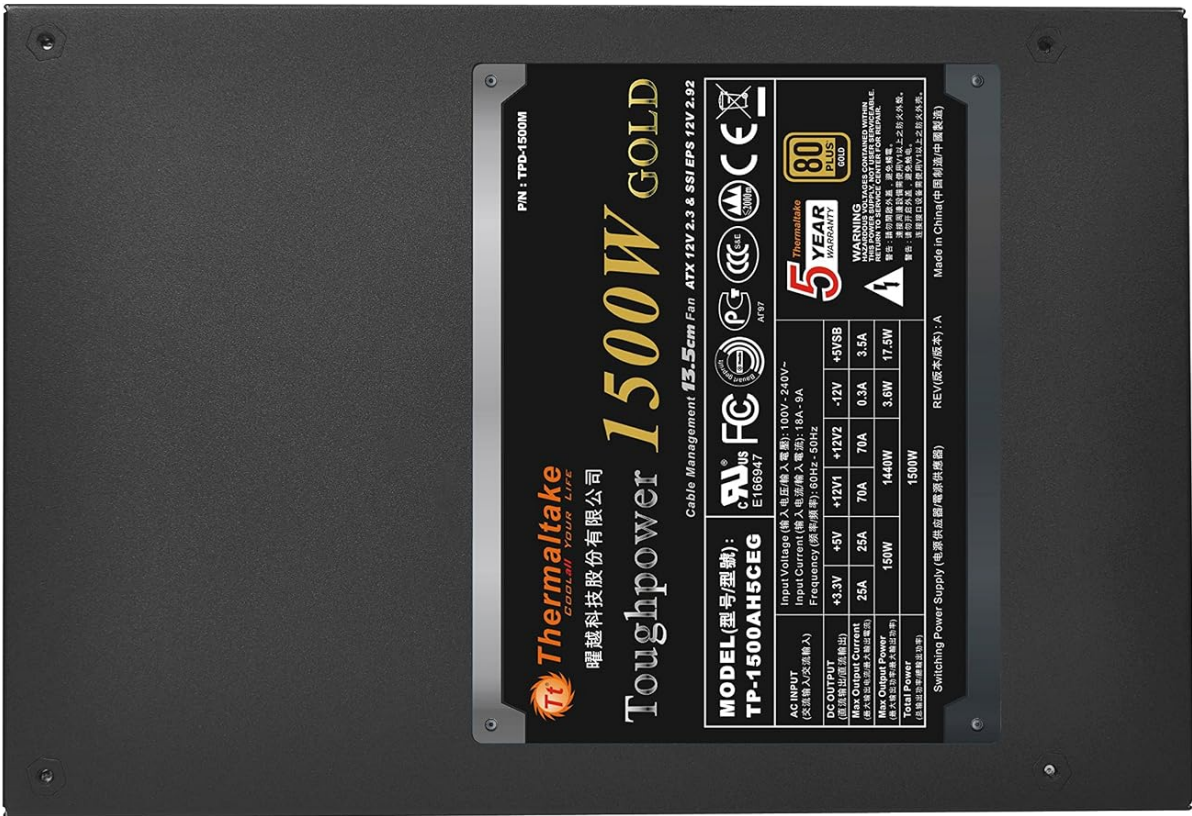


Image: The bottom of the power supply unit, displaying the product's detailed specification label.

Feature	Detail
Model Number	PS-TPD-1500MPCGUS-1
Wattage	1500 Watts
80 PLUS Certification	Gold
Form Factor	ATX12V / EPS12V
Cooling System	135mm double ball-bearing fan, 1700±10%R.P.M.
Input Voltage	100 Vac - 240 Vac
Input Frequency Range	60 Hz - 50 Hz
Operating Temperature	0°C to +40°C
MTBF (Mean Time Between Failures)	120,000 hrs minimum
Safety Approval	UL/ CB+Baurt mark/ CE/ FCC/ CCC/ GOST certification
PCI-E Connectors	10 x 6+2pin
Product Dimensions (L x W x H)	15.5 x 8.5 x 6.5 inches
Item Weight	10 Pounds

WARRANTY AND SUPPORT

Thermaltake provides a **5-Year Warranty** for the Toughpower 1500W 80 Plus Gold Power Supply. Please retain your proof of purchase for warranty claims.

Important Warranty Information:

- The warranty is voided if the power supply case is opened by unauthorized personnel.
- The use of non-genuine Thermaltake modular cables will void the warranty and may cause serious damage to your system.
- Failure to comply with any of the warnings and cautions outlined in this manual will void all warranties and guarantees.

For technical support, warranty claims, or further inquiries, please visit the official Thermaltake website or contact their customer service department.

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