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GIGABYTE GP-UD750GM-A

GIGABYTE GP-UD750GM-A 750W Power Supply User Manual

Model: GP-UD750GM-A

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your GIGABYTE GP-UD750GM-A 750W 80 Plus Gold Certified Fully Modular Power Supply. The GP-UD750GM-A is designed to deliver stable and efficient power to your computer system, featuring high-quality components such as Japanese capacitors and a +12V single rail design.



Image 1.1: GIGABYTE GP-UD750GM-A 750W Power Supply and its retail packaging.

2. Safety Information

Please read and follow these safety guidelines carefully to prevent injury or damage to your equipment.

- **Electrical Hazard:** Do not open the power supply unit. High voltages are present inside, even when the unit is unplugged. Servicing should only be performed by qualified personnel.
- **Ventilation:** Ensure adequate airflow around the power supply. Do not block ventilation openings.
- **Moisture:** Keep the power supply away from water, humidity, and other liquids.
- **Temperature:** Operate the power supply within the specified temperature range. Avoid extreme heat or cold.
- **Grounding:** Always connect the power supply to a grounded outlet.
- **Cable Management:** Ensure all cables are properly connected and routed to avoid pinching or damage.

3. Package Contents

Verify that all items are present in the package:

- GIGABYTE GP-UD750GM-A 750W Power Supply Unit
- Modular Cable Set (including ATX 20+4 pin, CPU 4+4 pin, PCIe 6+2 pin, SATA, and Peripheral cables)
- AC Power Cord
- Mounting Screws
- User Manual (this document)

4. Installation Guide

4.1. Pre-Installation Checks

1. Ensure your computer system is completely powered off and unplugged from the wall outlet.
2. Open your computer case to access the power supply mounting area.
3. If replacing an existing power supply, disconnect all cables from the old PSU and remove it from the case.

4.2. Physical Installation

1. Carefully place the GIGABYTE GP-UD750GM-A into the power supply bay of your computer case. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards if there's a bottom vent, or upwards if not).
2. Secure the power supply to the case using the provided mounting screws.



Image 4.1: Rear view of the power supply, showing the AC inlet and power switch.

4.3. Connecting Modular Cables

The GP-UD750GM-A is a fully modular power supply, allowing you to connect only the cables you need.

1. Connect the necessary modular cables to the power supply unit. Refer to the labels on the PSU and the cables to ensure correct connections.
2. Connect the 20+4 pin ATX cable to your motherboard.
3. Connect the 4+4 pin CPU power cable(s) to your motherboard.
4. Connect the 6+2 pin PCIe power cable(s) to your graphics card(s).
5. Connect SATA power cables to your storage drives (HDDs, SSDs) and other SATA-powered devices.
6. Connect peripheral (Molex) cables to any other components requiring them.



Image 4.2: Modular cable ports on the power supply.

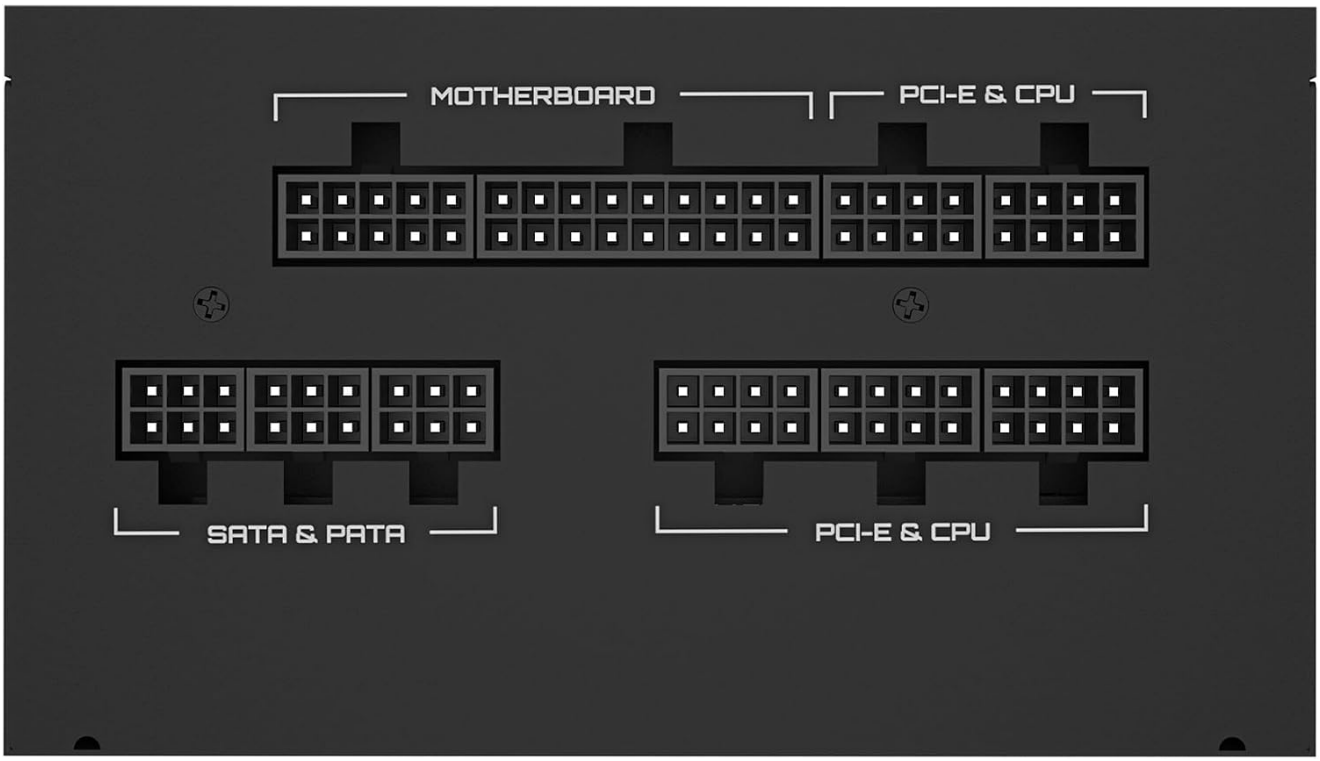


Image 4.3: Detailed view of modular cable connections.

4.4. Powering On

1. Once all cables are securely connected, close your computer case.

2. Connect the AC power cord to the power supply and then to a grounded wall outlet.
3. Flip the power switch on the back of the power supply to the 'ON' (I) position.
4. You can now power on your computer system.

5. Operation

The GIGABYTE GP-UD750GM-A operates automatically once installed and powered on. The 120mm hydraulic bearing fan will adjust its speed based on the power supply's temperature and load to maintain optimal cooling and quiet operation.

6. Maintenance

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

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille using compressed air to remove dust buildup. Ensure the power supply is unplugged before cleaning.
- **Cable Inspection:** Occasionally check all modular cable connections to ensure they are secure and free from damage.
- **Environment:** Maintain a clean, dry, and well-ventilated environment for your computer system.



Image 6.1: Side view of the power supply, highlighting the fan grille.



Image 6.2: Close-up of the 120mm hydraulic bearing fan.

7. Troubleshooting

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
System does not power on.	• Power cord not connected. • Power switch on PSU is off. • Loose modular cable connections. • Faulty wall outlet.	• Ensure AC power cord is securely connected to PSU and wall outlet. • Flip PSU power switch to 'ON' (I) position. • Check all modular cables (20+4 pin ATX, CPU, PCIe) are firmly seated. • Test wall outlet with another device.
System powers on but immediately shuts down.	• Overload or short circuit. • Overheating. • Component malfunction.	• Disconnect non-essential components to check for overload. • Ensure proper ventilation and clear any obstructions from PSU fan. • Verify all components are correctly installed and not shorting.
Unusual noise from PSU.	• Fan obstruction. • Loose screws.	• Ensure no cables or debris are interfering with the fan. • Check PSU mounting screws are tight.

If problems persist after attempting these solutions, contact GIGABYTE customer support.

8. Specifications

Below are the technical specifications for the GIGABYTE GP-UD750GM-A 750W Power Supply:



Image 8.1: Power supply with specification label.

Feature	Description
Model Name	GP-UD750GM-A
Wattage	750 Watts
80 PLUS Certification	Gold Certified
Form Factor	ATX
Modularity	Fully Modular
Capacitors	Japanese Capacitors
Fan Type	120mm Hydraulic Bearing Fan
Protections	OVP (Over Voltage Protection), OPP (Over Power Protection), SCP (Short Circuit Protection), UVP (Under Voltage Protection), OCP (Over Current Protection), OTP (Over Temperature Protection)
Dimensions (L x W x H)	5.9 x 5.5 x 3.4 inches (150 x 140 x 86 mm)

Feature	Description
Weight	6 pounds
AC Input	100-240V, 10A, 50-60Hz
DC Output (+3.3V)	20A, 100W
DC Output (+5V)	20A, 100W
DC Output (+12V)	62.5A, 750W
DC Output (-12V)	0.3A, 3.6W
DC Output (+5Vsb)	3A, 15W

9. Warranty and Support

GIGABYTE products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website. Keep your proof of purchase for warranty claims.

For technical support, driver downloads, or further assistance, please visit the official GIGABYTE support page:

GIGABYTE Support Website

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