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› ARESGAME AGK750 750W Fully Modular 80 Plus Gold Certified Power Supply Unit Instruction Manual

## ARESGAME AGK750

# ARESGAME AGK750 750W Fully Modular 80 Plus Gold Certified Power Supply Unit Instruction Manual

Model: AGK750

## 1. INTRODUCTION

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Thank you for choosing the ARESGAME AGK750 Power Supply Unit. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new power supply. Please read this manual thoroughly before installation and retain it for future reference.

The ARESGAME AGK750 is a high-quality, fully modular 750W power supply, 80 Plus Gold certified for high efficiency. It is designed to provide stable and reliable power to your gaming or high-performance computer system.

## 2. SAFETY INFORMATION

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- Always disconnect the power cord from the wall outlet before installing or removing the power supply.
- Do not open the power supply casing. High voltages are present inside, and there are no user-serviceable parts. Opening the unit will void the warranty.
- Ensure the power supply is installed in a well-ventilated area. Do not block any ventilation openings.
- Use only the modular cables provided with this ARESGAME AGK750 power supply. Using cables from other power supply manufacturers may cause damage to your system.
- This product is designed for use in personal computer systems. Do not use it for any other purpose.
- Keep the power supply away from water, moisture, and extreme temperatures.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x ARESGAME AGK750 750W Power Supply Unit
- 1 x AC Power Cord
- 7 x Modular Cables (various types)
- 1 x User Manual

- 1 x Quick Installation Guide
- 1 x PSU Tester
- 4 x Hook and Loop Fasteners
- 4 x Mounting Screws
- 8 x Cable Ties



Image: Contents of the ARESGAME AGK750 package, including the PSU, modular cables, and accessories.

## 4. FEATURES

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- **750W Continuous Power:** Provides stable and reliable power output for demanding systems.
- **80 PLUS Gold Certified:** Achieves 90% efficiency or higher under typical loads, reducing heat and operating costs.
- **Fully Modular Design:** Allows for custom cable management, improving airflow and aesthetics within the PC chassis.
- **DC-DC Structure:** Delivers very stable and continuous power output for critical components.
- **Ultra Quiet 140mm Fan:** Features intelligent fan speed control for quiet operation and efficient cooling.

- **Excellent Heat Dissipation:** Honeycomb ventilation design combined with the fan function ensures optimal thermal performance.
- **Comprehensive Protections:** Includes Over Voltage Protection (OVP), Under Voltage Protection (UVP), Over Power Protection (OPP), Short Circuit Protection (SCP), and Over Current Protection (OCP).
- **High-End VGA Card Support:** Equipped with modern PCI-E 6+2pin connectors to support high-performance graphics cards.



Image: Visual representation of the 10-year warranty and 80 PLUS Gold certification.

# DC-DC

## Voltage Regulated Structure



Image: Diagram highlighting the DC-DC voltage regulated structure for stable power delivery.

# **STRONG HEAT DISSIPATION WISHPER-QUIET**

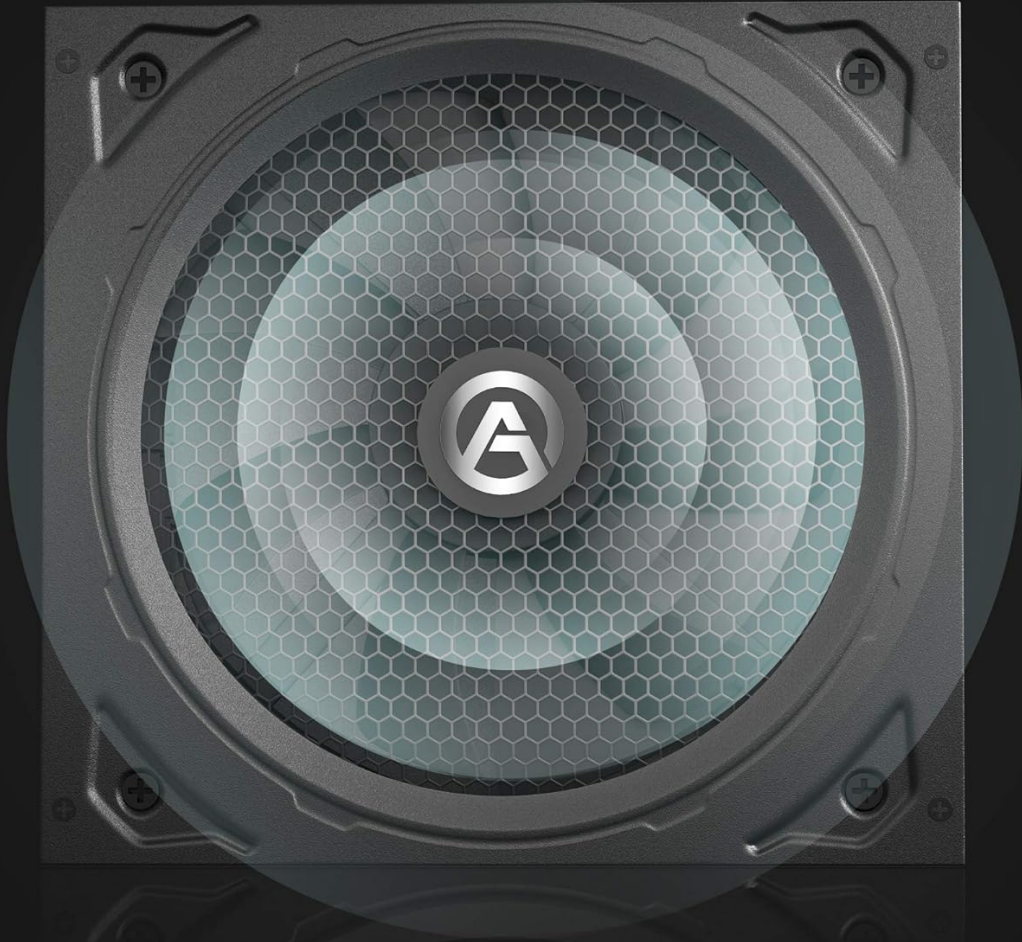


Image: The 140mm fan and honeycomb design, indicating strong heat dissipation and quiet performance.



Image: Depiction of PCI-E 6+2 pin connectors supporting high-end graphics cards.

## 5. SETUP AND INSTALLATION

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1. **Preparation:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case to access the power supply bay.
2. **Remove Old PSU (if applicable):** Disconnect all cables from your old power supply and remove it from the chassis.
3. **Install New PSU:** Carefully place the ARESGAME AGK750 into the power supply bay. Secure it with the provided mounting screws.
4. **Connect Modular Cables:** Identify the necessary cables for your components (motherboard, CPU, GPU, storage drives, etc.). Connect the appropriate modular cables to the power supply first, then route them to your components. Ensure all connections are firm and correctly oriented.
5. **Main Power Cable:** Connect the 24-pin ATX motherboard power cable. Ensure it is fully seated. If the system does not power on, try flipping the connector if it allows, and re-seating it firmly.
6. **CPU Power Cable:** Connect the 8-pin (or 4+4 pin) CPU power cable to your motherboard.
7. **PCI-E Power Cables:** For graphics cards requiring additional power, connect the 6+2 pin PCI-E cables.

8. **SATA/Molex Cables:** Connect SATA power cables to SSDs/HDDs and Molex cables to other peripherals as needed.
9. **Cable Management:** Use the provided hook and loop fasteners and cable ties to manage cables neatly, improving airflow and aesthetics.
10. **Close Case:** Once all connections are made and verified, close your computer case.
11. **Power On:** Plug the AC power cord into the power supply and then into a wall outlet. Flip the power switch on the PSU to the 'ON' position. Power on your computer.

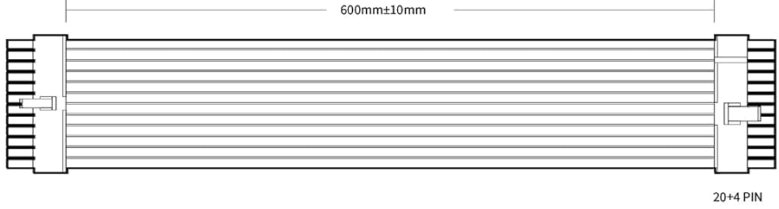
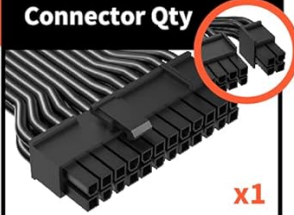
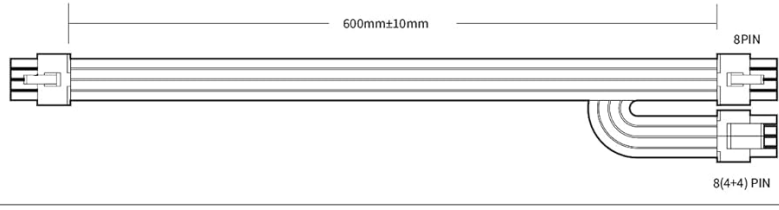

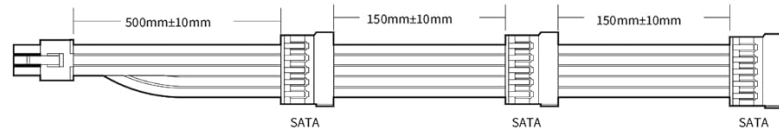

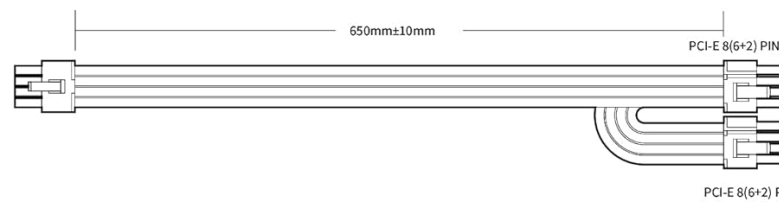

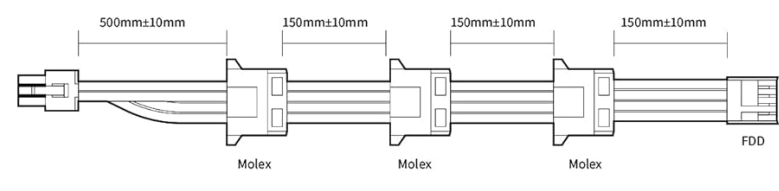


Description	Cable Qty	Connector Qty
 <p>600mm±10mm</p> <p>20+4 PIN</p>	1	 <p>x1</p> <p>Mainboard Power Connector 20+4 PIN</p>
 <p>600mm±10mm</p> <p>8 PIN</p> <p>8(4+4) PIN</p>	1	 <p>x1</p> <p>CPU Power Connector 8 PIN+8(4+4) PIN</p>
 <p>500mm±10mm</p> <p>150mm±10mm</p> <p>150mm±10mm</p> <p>150mm±10mm</p> <p>SATA</p> <p>SATA</p> <p>SATA</p>	2	 <p>x4</p> <p>PCI-E Connector 6+2 PIN</p>
 <p>650mm±10mm</p> <p>PCI-E 8(6+2) PIN</p> <p>PCI-E 8(6+2) PIN</p>	2	 <p>x6</p> <p>SATA Connector</p>
 <p>500mm±10mm</p> <p>150mm±10mm</p> <p>150mm±10mm</p> <p>150mm±10mm</p> <p>Molex</p> <p>Molex</p> <p>Molex</p> <p>FDD</p>	1	 <p>x3</p> <p>Molex Peripheral Connector 4pin</p>  <p>x1</p> <p>FDD Connector 4 PIN</p>

Image: Cable quantity and connector types for the ARESGAME AGK750 power supply.

## 6. OPERATING INSTRUCTIONS

After successful installation, operating the ARESGAME AGK750 is straightforward:

- **Power On:** Ensure the power switch on the back of the PSU is in the 'ON' (I) position. Press the power button on your computer case.
- **Power Off:** Shut down your computer through the operating system. Once the system is off, you may flip the power switch on the PSU to the 'OFF' (O) position for complete power disconnection, especially during maintenance or extended periods of non-use.

- The intelligent 140mm fan will operate automatically based on the power supply's temperature and load, ensuring optimal cooling while maintaining low noise levels.

## 7. MAINTENANCE

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To ensure the longevity and optimal performance of your ARESGAME AGK750 power supply, follow these maintenance guidelines:

- **Dust Removal:** Periodically clean the exterior of the power supply and its fan grill to prevent dust buildup. Use compressed air to gently clear dust from the fan and vents. Ensure the computer is powered off and unplugged before cleaning.
- **Cable Check:** Occasionally check that all modular cables are securely connected to both the power supply and your components. Loose connections can lead to instability.
- **Environment:** Operate the power supply in a clean, dry, and well-ventilated environment to prevent overheating and dust accumulation.

## 8. TROUBLESHOOTING

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If you encounter issues with your ARESGAME AGK750 power supply, refer to the following common troubleshooting steps:

- **No Power:**
  - Ensure the AC power cord is securely plugged into both the wall outlet and the power supply.
  - Verify the power switch on the back of the PSU is in the 'ON' (I) position.
  - Check all modular cable connections, especially the 24-pin motherboard connector and 8-pin CPU connector, ensuring they are fully seated.
  - Use the included PSU tester to verify if the power supply itself is functioning.
- **System Instability/Crashes:**
  - Ensure your system's power requirements do not exceed the 750W capacity of the PSU.
  - Verify all power connections to components (GPU, CPU, motherboard) are secure.
  - Ensure proper ventilation within your PC case to prevent overheating of components, including the PSU.
- **Fan Noise:**
  - A slight fan noise is normal during operation, especially under load.
  - If the fan is excessively loud or making unusual noises, check for dust buildup and clean the fan blades and grill.
- **Important Note:** Do not use modular cables from other power supply brands or models with your ARESGAME AGK750. Pinouts can vary, and using incompatible cables can cause severe damage to your power supply and connected components.

## 9. SPECIFICATIONS

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Specification	Value
Model	AGK750
Wattage	750W
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
Modularity	Fully Modular
VAC Input	100V-240V
Fan Size	140mm
Cooling Method	Air
Product Dimensions (LxWxH)	5.9 x 6.3 x 3.3 inches (150 x 160 x 86 mm)
Item Weight	5.7 pounds (2.59 kg)
Protections	OVP, UVP, OPP, SCP, OCP

## 10. WARRANTY AND SUPPORT

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The ARESGAME AGK750 Power Supply Unit comes with a **10-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use. This warranty ensures long-term reliability and peace of mind. For technical support, warranty claims, or further inquiries, please visit the official ARESGAME website or contact their customer service directly. Please have your product model (AGK750) and proof of purchase ready when contacting support. *Note: The warranty does not cover damage caused by improper installation, misuse, unauthorized modifications, or natural disasters.*