Antec HCG-750

Antec High Current Gamer HCG-750 Power Supply User Manual

Model: HCG-750

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Antec High Current Gamer HCG-750 Power Supply. Please read this manual thoroughly before installation and retain it for future reference.

Image 1.1: The Antec High Current Gamer HCG-750 Power Supply. This image displays the power supply unit from an angled perspective, highlighting its black and red casing, fan grille, and power input port.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the product:

- Ensure the power supply is disconnected from the AC outlet before installation or handling.
- 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.
- Install the power supply in a well-ventilated area, away from heat sources and direct sunlight.
- Use only the cables provided with the power supply.
- This product is designed for use in computer systems. Do not use it for other applications.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Antec High Current Gamer HCG-750 Power Supply Unit
- AC Power Cord
- Modular Cable Set
- Mounting Screws
- User Manual (this document)

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the power supply into your computer system:

1. **Prepare Your System:**

   Before beginning, ensure your computer is powered off and unplugged from the wall outlet. Open your computer case to access the power supply mounting area.

2. **Remove Old Power Supply (if applicable):**

   Disconnect all cables from the old power supply to your motherboard, graphics card, and other components. Unscrew and remove the old power supply from the case.

3. **Install the HCG-750:**

   Carefully place the Antec HCG-750 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). Secure the power supply with the provided mounting screws.

4. **Connect Main Power Cables:**

   - Connect the 24-pin ATX power cable to the motherboard.
   - Connect the 4+4-pin or 8-pin EPS12V CPU power cable to the motherboard.

5. **Connect Peripheral Power Cables:**

   - Connect 6+2-pin PCI-E cables to your graphics card(s) as required. The HCG-750 supports NVIDIA SLI and ATI CrossFire configurations.
   - Connect SATA power cables to your hard drives, SSDs, and optical drives.
   - Connect Molex power cables to any other peripherals that require them.

6. **Cable Management:**

   Route cables neatly behind the motherboard tray or in other designated areas of your case to improve airflow and aesthetics.

7. **Final Check:**

   Double-check all connections to ensure they are secure. Close your computer case.

5. OPERATING INSTRUCTIONS

The Antec HCG-750 is designed for reliable and efficient operation.

- **Power On:** Connect the AC power cord to the power supply and then to a wall outlet. 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 its front panel power button.

- **Power Off:** Shut down your computer through the operating system. Once the system is off, you can switch the power supply to the 'OFF' (O) position if you intend to disconnect it or perform maintenance.
- **80 PLUS BRONZE Certification:** This power supply features 80 PLUS BRONZE certification, indicating high energy efficiency. This means less wasted heat and lower electricity consumption compared to non-certified power supplies.
- **Continuous Power:** The HCG-750 provides 750 Watts of continuous power, ensuring stable and consistent performance for your components under various loads.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille using a soft, dry cloth. For internal cleaning, use compressed air to gently remove dust from the fan and vents. **Always disconnect the power supply from the AC outlet before cleaning.**
- **Ventilation:** Ensure that the power supply's intake and exhaust vents are not obstructed. Maintain adequate airflow within your computer case.
- **Environmental Conditions:** Operate the power supply within recommended temperature and humidity ranges. Avoid extreme conditions.

7. TROUBLESHOOTING

If you encounter issues with your Antec HCG-750 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 power switch on the back of the power supply is in the 'ON' (I) position.
  - Verify that the wall outlet is functional by plugging in another device.
  - Confirm all internal power cables (24-pin ATX, EPS12V, PCI-E) are firmly seated.

- **System Instability/Random Shutdowns:**
  - Ensure the power supply is adequately rated for all your system components. The HCG-750 provides 750W, which is sufficient for most high-performance systems, including those with multiple GPUs.
  - Check for overheating. Ensure proper case ventilation and that the power supply fan is operating.
  - If possible, test the power supply with a different set of components or in another system to isolate the issue.

- **Unusual Noises:**
  - A slight fan noise is normal during operation. If you hear grinding, clicking, or excessive noise, ensure no cables are obstructing the fan.
  - If the noise persists and is abnormal, discontinue use and contact Antec support.

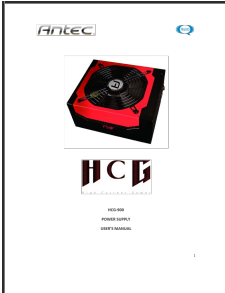If these steps do not resolve the issue, please contact Antec customer support for further assistance.

8. SPECIFICATIONS
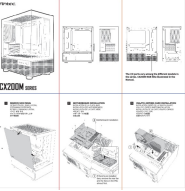
Brand	Antec
Model Number	HCG-750
Output Wattage	750 Watts
80 PLUS Certification	BRONZE
Form Factor	ATX12V
Cooling Method	Air
Item Dimensions (LxWxH)	7.1 x 5.9 x 3.4 inches
Item Weight	7.35 pounds
Compatible Devices	Personal Computer
Connector Type	ATX

9. WARRANTY AND SUPPORT

Antec products are manufactured to high quality standards. For warranty information and technical support, please refer to the official Antec website or contact their customer service department.

For the most current support resources, visit: www.antec.com/support

Related Documents - HCG-750

Antec HCG-900 Power Supply User Manual
User manual for the Antec HCG-900 High Current Gamer power supply, detailing its features, specifications, system protection, and installation.

Antec TruePower Quattro High Efficiency Modular Power Supply User Manual
User manual for the Antec TruePower Quattro series of high efficiency modular power supplies (models TPQ-850, TPQ-1000), detailing features, installation, and 80 PLUS® certification.

	[Antec PHANTOM 350 Power Supply User Manual](#) Comprehensive user manual for the Antec PHANTOM 350 power supply, detailing specifications, installation, protection features, connector pinouts, environmental data, and safety guidelines.
	[Antec Phantom 350 Power Supply User Manual](#) Detailed user manual for the Antec Phantom 350, a silent, fanless ATX12V v2.0 compliant power supply unit. Includes specifications, installation guide, protection features, and connector pinouts.
	[Antec PHANTOM 500 Power Supply User Manual](#) Comprehensive user manual for the Antec PHANTOM 500 power supply, detailing its features, installation, protection mechanisms, technical specifications, environmental requirements, and connector pinouts.
	[Antec CX200M Series PC Case Installation Guide](#) A comprehensive guide detailing the installation process for the Antec CX200M Series PC case, including steps for mounting the motherboard, graphics card, power supply, storage drives (HDD/SSD), and fans.