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EVGA 210-GQ-0750-V1

EVGA 750 GQ Power Supply User Manual

Model: 210-GQ-0750-V1

INTRODUCTION

The EVGA 750 GQ power supply (Model: 210-GQ-0750-V1) is designed to provide reliable and efficient power for your personal computer. Featuring 80 Plus Gold certification, a semi-modular design, and EVGA ECO fan mode, this power supply offers a balance of performance, quiet operation, and value. This manual provides essential information for the proper installation, operation, and maintenance of your EVGA 750 GQ power supply.



Image: The EVGA 750 GQ power supply unit shown alongside its packaging.

WHAT'S IN THE BOX

Carefully unpack your EVGA 750 GQ power supply and ensure all components are present:

- Power Supply Unit (PSU)
- Modular Cables
- AC Power Cord
- Mounting Screws
- Cable Ties (Velcro)
- User Manual (this document)



Image: A collection of the various modular cables and mounting screws included with the power supply.

KEY FEATURES

The EVGA 750 GQ power supply incorporates several advanced features for optimal performance and user experience:

- **80 Plus Gold Certified:** Achieves 90% (115VAC) / 92% (220VAC to 240VAC) efficiency or higher under typical loads, reducing heat and operating costs.
- **Semi-Modular Design:** Allows for flexible cable management by only connecting the cables you need, improving airflow and reducing clutter inside your PC case.
- **EVGA ECO Mode:** Enables near-silent operation by stopping the fan when the power supply is under low to moderate loads. The fan will only spin up when necessary.
- **100% High Quality Japanese Capacitors:** Ensures long-term reliability and stable power delivery.
- **135mm Fluid Dynamic Bearing Fan:** Provides quiet operation and extended lifespan compared to traditional

fan bearings.

- **Active Clamp DC-to-DC Design:** Offers highly efficient and stable power conversion.
- **Heavy Duty Protections:** Includes Over Voltage Protection (OVP), Under Voltage Protection (UVP), Over Current Protection (OCP), Over Power Protection (OPP), Short Circuit Protection (SCP), and Over Temperature Protection (OTP) for system safety.

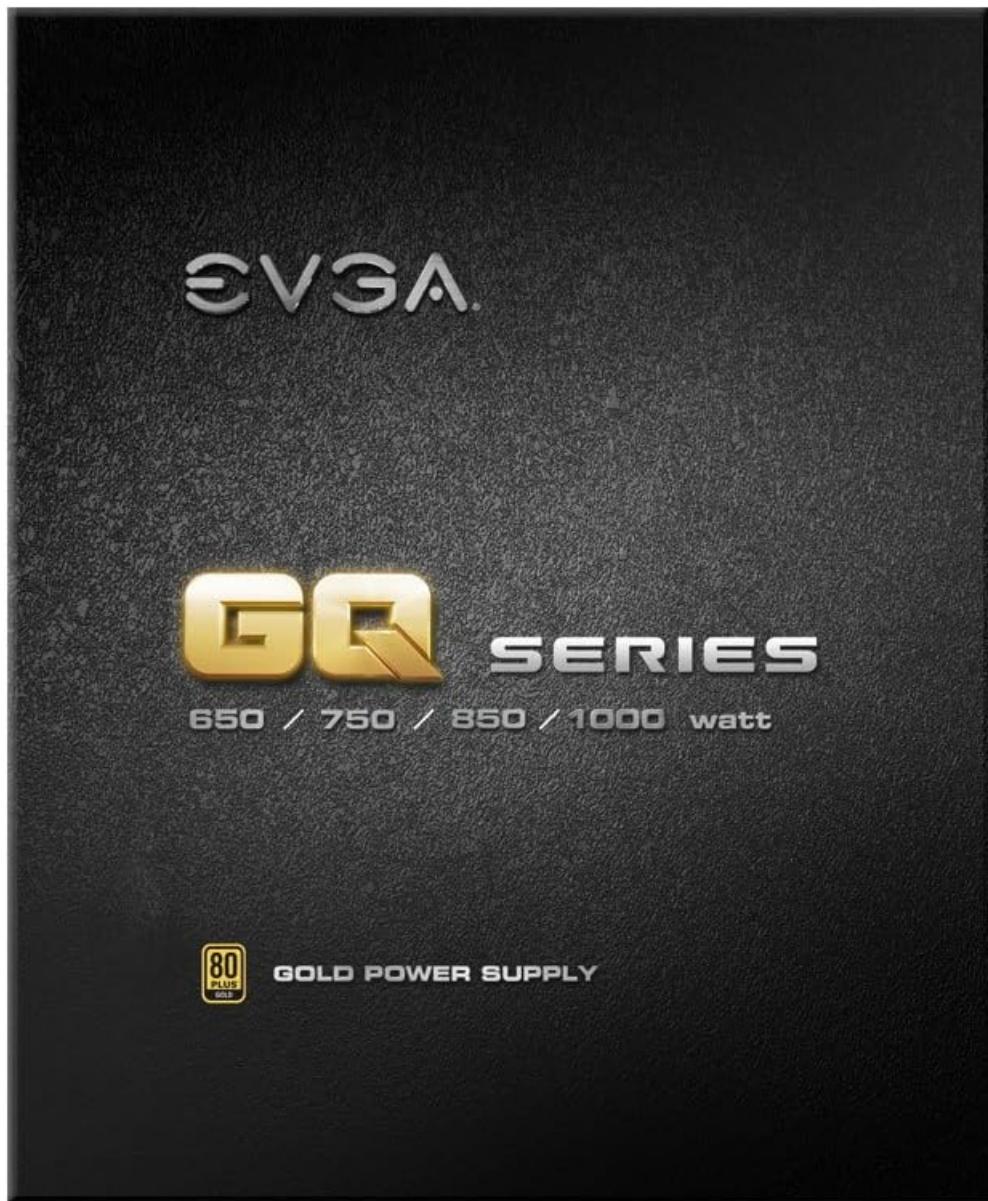


Image: Branding for the EVGA GQ Series, highlighting available wattage options.

Product Overview Video

Video: A general overview of EVGA power supply features, including efficiency, fan mode, and modular design, applicable to the GQ series.

SETUP

Pre-Installation Checklist

- Ensure your computer case has adequate space for the power supply (dimensions: 6.5 x 5.91 x 3.35 inches).

- Verify that your motherboard and components are compatible with the power supply's connectors.
- Turn off and unplug your computer from the wall outlet before beginning installation.
- Discharge any static electricity from your body by touching a grounded metal object.

Installation Steps

1. **Mount the Power Supply:** Carefully slide the power supply into the designated PSU bay in your computer case. Secure it with the provided mounting screws.
2. **Connect Essential Cables:** Connect the 24-pin ATX power cable to your motherboard. This cable is permanently attached to the power supply.
3. **Connect Modular Cables:** Identify the necessary modular cables for your components (e.g., CPU, GPU, SATA devices). Plug these cables into the corresponding ports on the power supply.
4. **Connect to Components:** Connect the other end of the modular cables to your motherboard (CPU power), graphics card(s), SSDs/HDDs, and other peripherals.
5. **Cable Management:** Route cables neatly to improve airflow and aesthetics. Use the included Velcro cable ties to bundle cables.
6. **Final Connections:** Ensure all connections are secure. Plug the AC power cord into the power supply and then into a wall outlet or surge protector.
7. **Power On:** Flip the power switch on the back of the power supply to the 'ON' position. You can now power on your computer.



Image: The rear panel of the EVGA 750 GQ power supply, illustrating the various semi-modular cable connection points.



Image: A detailed view of the modular cable ports on the power supply, indicating connections for peripherals, SATA, CPU, and VGA.

OPERATING INSTRUCTIONS

EVGA ECO Mode

The EVGA 750 GQ features an ECO mode switch on the power supply unit. When ECO mode is enabled (switch in the 'ON' position), the power supply fan will remain off during low to moderate loads, providing silent operation. The fan will automatically activate when the load increases to maintain optimal temperatures. When ECO mode is disabled (switch in the 'OFF' position), the fan will operate continuously, regardless of the load.



Image: A close-up of the ECO mode switch located on the power supply unit, allowing users to toggle between silent and continuous fan operation.

MAINTENANCE

Proper maintenance can extend the lifespan of your power supply and ensure stable performance:

- **Dust Removal:** Periodically clean the power supply's fan and vents to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to gently blow dust out of the unit. Ensure the computer is powered off and unplugged before cleaning.
- **Ensure Proper Airflow:** Make sure your computer case has good airflow and that the power supply's intake and exhaust vents are not obstructed.
- **Avoid Overloading:** Do not exceed the power supply's rated wattage. Overloading can reduce efficiency and lifespan.

TROUBLESHOOTING

If you encounter issues with your EVGA 750 GQ power supply, consider 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 PSU is in the 'ON' position.
- Verify that the 24-pin ATX cable and all other essential modular cables are firmly seated in their respective ports on the motherboard and components.
- Test the wall outlet with another device to ensure it is providing power.

- **System Instability/Crashes:**

- Ensure all modular cables are correctly and securely connected. Loose connections can cause instability.
- Check for proper ventilation within your PC case. Overheating components can lead to instability.
- If you are experiencing random shutdowns, it might indicate an overloaded PSU or a faulty component. Consider reducing the load or testing components individually.

- **Fan Not Spinning (ECO Mode):**

- If ECO mode is enabled, the fan is designed not to spin under low loads. This is normal operation.
- If the fan does not spin even under heavy load with ECO mode off, or if the system is overheating, contact EVGA support.

If these steps do not resolve your issue, please refer to the Warranty and Support section for further assistance.

SPECIFICATIONS

Feature	Specification
Model Name	210-GQ-0750-V1
Brand	EVGA
Output Wattage	750 Watts
80 PLUS Rating	Gold
Form Factor	ATX
Modular Type	Semi-Modular
Fan Size/Bearing	135mm Fluid Dynamic Bearing
Cooling Method	Air
Product Dimensions (L x W x H)	6.5 x 5.91 x 3.35 inches
Item Weight	6.82 pounds (3.1 Kilograms)
Operating Temperature	0°C to 50°C

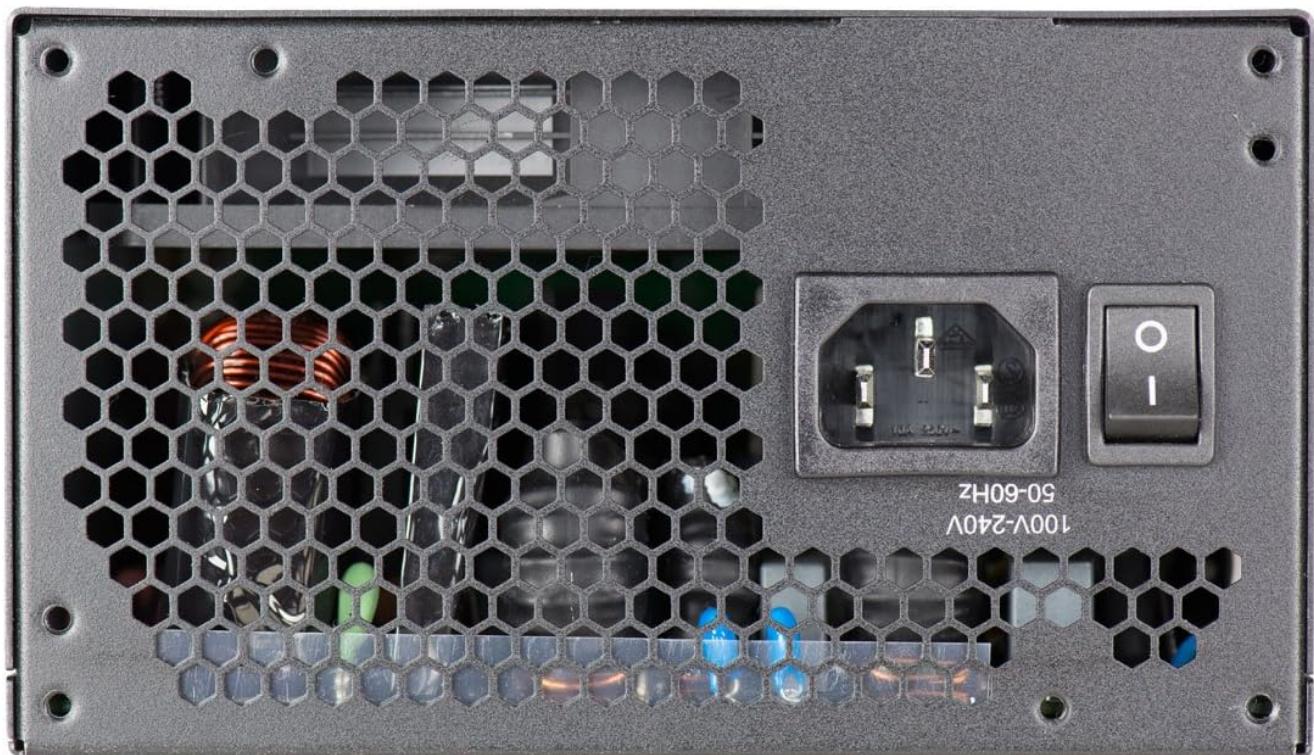


Image: The specifications label affixed to the side of the power supply, detailing its electrical ratings and certifications.

WARRANTY AND SUPPORT

The EVGA 750 GQ power supply is backed by a comprehensive 5-year warranty, demonstrating EVGA's commitment to quality and reliability. This warranty covers defects in materials and workmanship under normal use. For technical support, warranty claims, or additional information, please visit the official EVGA website or contact their customer service. You may also find additional resources, including a detailed user guide, on the product's

Amazon page under the 'Product guides and documents' section.

Official User Guide (PDF): [Download Here](#)