**Saved from manuals.plus.**
**Open the live page for links to other documents and user manuals.**



**COUGAR GEX 1050**

# COUGAR GEX 1050: 80Plus Gold Certified PSU User Manual

Model: GEX 1050

## 1. Introduction

Thank you for choosing the COUGAR GEX 1050 80Plus Gold Certified Power Supply Unit (PSU). This manual provides essential information for the proper installation, operation, and maintenance of your new power supply. The GEX 1050 is designed to deliver stable and efficient power to your PC components, featuring 80PLUS Gold certification for high energy efficiency and a fully modular design for simplified cable management.
Key features include:

- **80PLUS Gold Certified:** Up to 92% efficiency power conversion, reducing electricity consumption.
- **Durable HDB Fan:** Hydro Dynamic Bearing fan for extended durability and lower noise levels.
- **Flawless Operation at 40°C:** Reliable performance even at high ambient temperatures.
- **PCI Express 4.0 Support:** Equipped with 8(6+2) Pin PCI-E Connectors for next-generation graphics cards.
- **Fully Modular Design:** Connect only necessary cables for improved airflow and reduced clutter.
- **Superior Fan Curve Tuning:** Advanced technology for optimized noise minimization.
- **Advanced Safeguards:** Comprehensive protection features including OCP, OPP, OVP, UVP, SCP, and OTP for system safety.
- **Japanese Electrolytic Capacitors:** Ensures solid durability and long-term reliability.
- **Tight Voltage Regulation:** LLC, DC-DC, and Tri-Sense (3.3V, 5V, and 12V) design provides high-quality outputs with an extremely tight 2% voltage regulation.

## 2. Safety Information

Please read and understand all safety instructions before installing or operating the power supply. Failure to do so may result in personal injury or damage to your equipment.

- **Electrical Hazard:** Do not open the PSU casing. High voltages are present inside, even when the unit is unplugged. There are no user-serviceable parts inside.
- **Ventilation:** Ensure adequate ventilation around the PSU. Do not block any ventilation openings.
- **Environment:** Operate the PSU in a dry, well-ventilated environment. Avoid exposure to moisture, dust, and extreme temperatures.
- **Power Off:** Always disconnect the AC power cord from the wall outlet before installing, removing, or servicing the power supply or any other computer components.

- **Grounding:** Ensure your computer system is properly grounded.
- **Compatibility:** Use only the modular cables provided with your COUGAR GEX 1050 PSU. Using incompatible cables may damage the PSU or connected components.

## 3. Package Contents

Verify that all items are present in your COUGAR GEX 1050 package:

- COUGAR GEX 1050 Power Supply Unit
- Modular Cable Set (24-pin ATX, 4+4 pin EPS, 6+2 pin PCIe, SATA, PATA)
- AC Power Cord
- Mounting Screws
- User Manual (this document)




Image: COUGAR GEX 1050 Power Supply Unit shown with its retail packaging, highlighting the 80 Plus Gold certification and ATX 3.0 compatibility.

## 4. Setup and Installation

Follow these steps to properly install your COUGAR GEX 1050 PSU into your computer system.

### 4.1. Physical Installation

1. **Prepare Your System:**

   Before starting, ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case to access the PSU mounting area.

2. **Mount the PSU:**

   Carefully slide the COUGAR GEX 1050 PSU into the designated power supply bay in your PC case. Align the screw holes on the PSU with those on the case. Secure the PSU using the provided mounting screws.




Image: An angled view of the COUGAR GEX 1050 PSU, showcasing its modular cable ports and fan grille.

## 4.2. Cable Connections (Fully Modular)

The GEX 1050 is a fully modular power supply, allowing you to connect only the cables you need. This helps reduce cable clutter and improve airflow within your PC case.

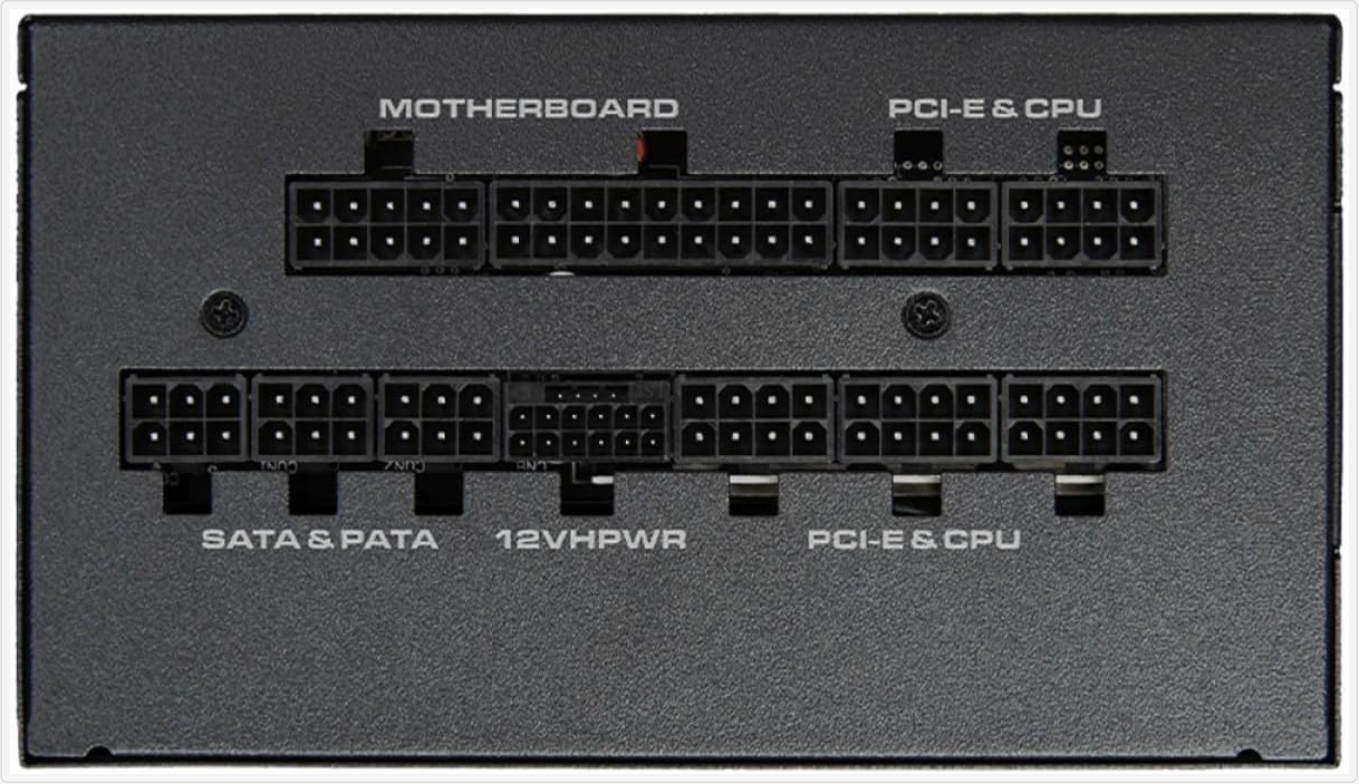



Image: A close-up view of the COUGAR GEX 1050's modular cable connection panel, clearly labeled for Motherboard, PCI-E & CPU, 12VHPWR, and SATA & PATA connections.

1. **24-pin ATX Motherboard Cable:**

   Connect the 24-pin cable from the PSU to the corresponding 24-pin connector on your motherboard. Ensure it clicks into place.

2. **4+4 pin EPS/CPU Cable:**

   Connect the 4+4 pin EPS cable(s) from the PSU to the CPU power connector(s) on your motherboard. Modern motherboards may have one or two 8-pin (4+4) CPU power connectors.

3. **6+2 pin PCIe Cable:**

   Connect the 6+2 pin PCIe cables from the PSU to your graphics card(s). High-performance graphics cards may require multiple PCIe power connectors. The GEX 1050 supports PCI Express 4.0 next-generation graphics cards.

4. **SATA and PATA Cables:**

   Connect SATA power cables to your SSDs, HDDs, and optical drives. Use PATA (Molex) cables for older peripherals or case fans if needed.

5. **Cable Management:**

   Route cables neatly behind the motherboard tray or in designated cable management channels to improve airflow and aesthetics.

6. **AC Power Cord:**

   Once all internal connections are made, connect the AC power cord to the PSU's power inlet and then to a grounded wall outlet or surge protector.

## 5. Operation

After successful installation, you can power on your system.

1. **Power On:**

   Flip the power switch on the back of the PSU to the "ON" (I) position. Then, press the power button on your

computer case.

2. **Fan Operation:**

   The GEX 1050 features a Hydro Dynamic Bearing (HDB) fan with superior fan curve tuning for optimized noise minimization. The fan may not spin at low loads, as it is designed to operate only when necessary to maintain optimal temperatures, ensuring quiet operation.

3. **Stable Performance:**

   The PSU is designed for flawless operation at 40°C ambient temperature, providing powerful and stable performance under various conditions.

## 6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your COUGAR GEX 1050 PSU.

- **Dust Removal:**

  Periodically (e.g., every 6-12 months), power off and unplug your computer. Use compressed air to gently blow dust out of the PSU's fan grille and ventilation openings. Do not open the PSU casing.

- **Cable Check:**

  Occasionally check all modular cable connections to ensure they are securely seated. Loose connections can lead to instability.

- **Environmental Control:**

  Ensure your computer operates in a clean, dry, and well-ventilated environment to prevent dust buildup and overheating.

## 7. Troubleshooting

If you encounter issues with your COUGAR GEX 1050 PSU, refer to the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| System does not power on. | ◦ AC power cord not connected or loose.<br>◦ PSU power switch is OFF.<br>◦ Motherboard 24-pin or CPU 4+4 pin cable not connected properly.<br>◦ Faulty wall outlet or surge protector. | ◦ Ensure AC cord is firmly connected to PSU and wall outlet.<br>◦ Flip PSU switch to "ON" (I) position.<br>◦ Check and re-seat all power cables to the motherboard and CPU.<br>◦ Try a different wall outlet or bypass the surge protector. |
| System reboots unexpectedly or is unstable. | ◦ Overload or short circuit.<br>◦ Loose power connections to components (e.g., graphics card).<br>◦ Overheating. | ◦ The GEX 1050 has strong safeguards (OCP, OPP, OVP, UVP, SCP, OTP). If these trigger, the PSU will shut down. Reduce load or check for shorts.<br>◦ Ensure all PCIe and SATA power cables are securely connected to components.<br>◦ Check for proper case airflow and ensure PSU fan is not obstructed. |

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Fan is not spinning. | ◦ PSU is under low load (fanless mode).<br>◦ Fan obstruction. | ◦ This is normal for the GEX 1050 at low temperatures/loads. The fan will spin up as needed.<br>◦ Ensure no cables or debris are blocking the fan. |

If problems persist after following these steps, please contact COUGAR customer support.

## 8. Specifications

Detailed technical specifications for the COUGAR GEX 1050 Power Supply Unit:

| Feature | Detail |
| --- | --- |
| Model Name | GEX 1050 |
| Output Wattage | 1050 Watts |
| 80 PLUS Certification | Gold |
| Form Factor | ATX |
| Product Dimensions (L x W x H) | 7.09 x 5.91 x 3.39 inches (180 x 150 x 86 mm) |
| Item Weight | 4.6 pounds (2.09 Kilograms) |
| Cooling Method | Air (Hydro Dynamic Bearing Fan) |
| Connector Type | ATX (Fully Modular) |
| Compatible Devices | Personal Computer |
| Capacitors | Japanese Electrolytic Capacitors |
| Protections | OCP, OPP, OVP, UVP, SCP, OTP |




Image: Top view of the COUGAR GEX 1050 PSU, showing the product label with detailed electrical specifications and certifications.

## 9. Warranty and Support

COUGAR products are manufactured to the highest quality standards. For information regarding warranty coverage and technical support, please refer to the official COUGAR website or contact their customer service directly.
For further assistance, visit the official COUGAR store or support page:

Visit COUGAR Store on Amazon

© 2024 COUGAR. All rights reserved.

### Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**

---

**Open the live page**

**https://manuals.plus/asin/B0993VVFJH**

More documents and user manuals: **https://manuals.plus/**