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› High Power 1300W Modular Gold Power Supply User Manual

## High Power HP1-O21300GD-F14C

# High Power 1300W Modular Gold Power Supply User Manual

Model: HP1-O21300GD-F14C | Brand: High Power

## 1. INTRODUCTION

Welcome to the user manual for your new High Power 1300W Fully Modular Power Supply. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your power supply unit (PSU). Please read this manual thoroughly before installation and keep it for future reference.



Image: The High Power 1300W Modular Gold Power Supply, showcasing its compact design and modular cable ports.

## 2. SAFETY INFORMATION

To prevent personal injury or damage to your equipment, observe the following safety precautions:

- **Electrical Hazard:** This power supply contains hazardous voltages. Do not open the unit. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- **Ventilation:** Ensure adequate airflow around the power supply. Do not block ventilation openings.
- **Moisture:** Do not expose the power supply to water or excessive humidity.
- **Power Source:** Connect the power supply only to a grounded electrical outlet with the correct voltage range (100-240V AC).
- **Cable Management:** Ensure all cables are properly connected and routed to avoid pinching or damage.

- **Temperature:** Operate the power supply within its specified temperature range. Avoid extreme heat or cold.

**Warning:** Hazardous voltages are contained within this power supply. This power supply is not user serviceable. Return to service center for repair.

### 3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- High Power 1300W Fully Modular Power Supply Unit
- AC Power Cord
- Modular Cable Set (including 24-pin ATX, CPU, PCIe, SATA, HDD, and 12VHPWR cables)
- Mounting Screws

**80 PLUS GOLD CERTIFIED**

Offer up to 90% efficiency, for low power consumption, energy costs, and cooler temperatures.

SATA MB CPU

Peripherals / IDE / SATA PCI-E 12VHPWR

**80 PLUS GOLD**

**ATX 3.0 READY**

**POWER 2X TOTAL POWER EXCURSION**

**VGA 3X GPU POWER EXCURSION**

**PCIe Gen5 12VHPWR EXCURSION**

Image: The power supply unit shown with its modular cables, highlighting its 80 Plus Gold certification for energy efficiency.

### 4. PRODUCT OVERVIEW

## 4.1 Key Features

- **1300 Watts of Pure Power & ATX 3.0 Compliance:** Provides ample power for demanding components and adheres to the latest ATX 3.0 standards for modern compatibility.
- **80 Plus Gold Certified Efficiency:** Ensures outstanding energy efficiency, reducing power consumption and operating costs.
- **Versatile Connectivity & Wide Voltage Input:** Features a wide range of connectors for various components and operates over a broad voltage range (100-240V AC).
- **Whisper-Quiet Cooling & Comprehensive Protection:** Equipped with a silent fan and intelligent thermal management, alongside multiple protections (over-voltage, under-voltage, over-current, short-circuit, and over-temperature).
- **Sturdy and Durable:** Built with a robust chassis and high-quality components for long-lasting performance.

## 4.2 Components

The High Power 1300W PSU features a standard ATX form factor with a fully modular design. Key components include:

- **135mm Silent Fan:** Located on the top/bottom (depending on orientation) for efficient and quiet cooling.
- **Modular Cable Ports:** Located on the side for connecting all necessary power cables.
- **AC Power Inlet:** For connecting the main power cord.
- **Power Switch:** To turn the power supply on or off.
- **Product Label:** Contains model number, electrical specifications, and certifications.

 **HIGH POWER**



**EXPERIENCE SUPERIOR POWER TO FUEL  
YOUR DEMANDING COMPONENTS**

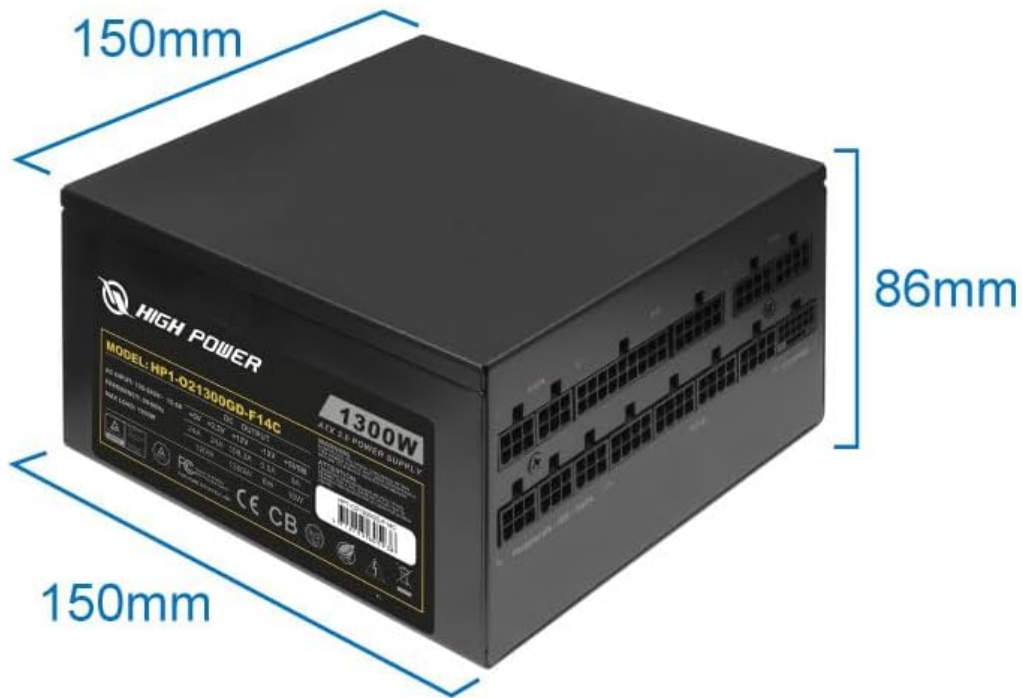
Image: A detailed view of the modular cable connection ports on the power supply, including SATA, MB, CPU, and PCIe connectors.

# 135mm SILENT FAN

Whisper quiet 135mm fan brings more airflow volume



Image: Diagram showing the airflow path through the 135mm silent fan, indicating air intake and exhaust for effective cooling.



## 100% JAPANESE - MADE CAPACITORS

Longer lifespan than  
electrolytic capacitors.

Image: A diagram illustrating the physical dimensions of the power supply unit, measuring 150mm in length, 150mm in width, and 86mm in height.

## 5. SETUP AND INSTALLATION

Follow these general steps for installing your power supply. Always refer to your PC case and motherboard manuals for specific instructions.

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Mount the PSU:** Secure the power supply into the designated PSU bay in your PC case using the provided mounting screws. Ensure the fan is oriented correctly for optimal airflow (typically facing down if there's a bottom vent, or up if not).
3. **Connect Modular Cables:** Identify the necessary cables for your components (motherboard, CPU, GPU, storage drives). Connect the appropriate modular cables to the power supply's output ports first, then route them to your components.

**4. Main Power Connections:**

- Connect the 24-pin ATX cable to your motherboard.
- Connect the 8-pin (or 4+4 pin) CPU power cable(s) to your motherboard.

**5. Component Power Connections:**

- Connect PCIe 6+2 pin cables to your graphics card(s).
- Connect SATA power cables to your SSDs/HDDs and other SATA devices.
- Connect 4-pin HDD (Molex) cables to any compatible peripherals.
- Connect the 12VHPWR (600W) cable to compatible PCIe 5.0 graphics cards if applicable.

**6. Cable Management:** Route cables neatly to improve airflow and aesthetics.

**7. Final Check:** Double-check all connections to ensure they are secure.









Connector Type	Connector QTY
 24 Pin	x1
 CPU 8 Pin	x1
 CPU 4+4 Pin	x1
 PCI-E 6+2 Pin	x8
 4 Pin HDD	x4
 SATA	x12
 Floppy	x1
 12VHPWR (600W)	x1

Image: A table detailing the types and quantities of connectors included with the power supply, such as 24 Pin, CPU 8 Pin, PCI-E 6+2 Pin, SATA, and 12VHPWR.

**6. OPERATING INSTRUCTIONS**

Once the power supply is correctly installed and all components are connected:

1. **Connect AC Power:** Plug the AC power cord into the power supply's inlet and then into a grounded wall outlet.
2. **Power On:** Flip the power switch on the back of the power supply to the 'ON' (I) position.
3. **System Boot:** Press the power button on your computer case to start your system.

The High Power 1300W PSU is designed for high performance and efficiency, operating quietly even under load due to its intelligent thermal management and silent fan.

## 7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power supply:

- **Dust Removal:** Periodically clean dust from the power supply's fan and ventilation grilles using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Environmental Conditions:** Keep the operating environment clean, dry, and well-ventilated.
- **Do Not Open:** As stated in the safety information, do not attempt to open the power supply unit. This will void the warranty and expose you to hazardous voltages.

## 8. TROUBLESHOOTING

If you encounter issues with your power supply, try the following basic troubleshooting steps:

- **No Power:**
  - Ensure the AC power cord is securely plugged into both the power supply and the wall outlet.
  - Check that the power switch on the PSU is in the 'ON' (I) position.
  - Verify the wall outlet is functional by plugging in another device.
- **System Instability/Crashes:**
  - Ensure all modular cables are firmly seated in both the power supply and the components.
  - Check for any loose connections or damaged cables.
  - Ensure your system's power requirements do not exceed the PSU's capacity.
- **Unusual Noises:**
  - A slight fan noise is normal. If you hear grinding or excessive noise, ensure no cables are obstructing the fan.
  - If the noise persists and is abnormal, discontinue use and contact support.

For issues that cannot be resolved with these steps, or if you suspect a malfunction, please contact High Power customer support. Do not attempt to repair the unit yourself.

## 9. SPECIFICATIONS

Detailed specifications for the High Power 1300W Modular Gold Power Supply:

Specification	Value
Model Number	HP1-O21300GD-F14C
Output Wattage	1300 Watts

Efficiency Certification	80 Plus Gold
ATX Standard	ATX 3.0
PCIe Standard	PCIe 5.0 Compliant (with 12VHPWR connector)
Form Factor	ATX
Product Dimensions (L x W x H)	8 x 5 x 4 inches (203.2 x 127 x 101.6 mm)
Item Weight	7.25 pounds (3.29 kg)
Cooling Method	Air (135mm Silent Fan)
Input Voltage Range	100-240V AC
Protections	OVP, UVP, OCP, SCP, OTP



Image: The product label displaying detailed electrical output specifications for the High Power 1300W ATX 3.0 Power Supply.

## 10. WARRANTY AND SUPPORT

High Power is committed to the quality of its products. Your power supply comes with a comprehensive warranty service.

For any inquiries, technical assistance, or warranty claims, please contact High Power customer support. We are dedicated to ensuring your satisfaction and will assist you promptly.

For more information and support resources, you may visit the official High Power store on Amazon: [High Power Store](#)