Vetroo 850 G5

Vetroo 850W 80 Plus Gold Full Modular ATX 3.1 Power Supply User Manual

Model: 850 G5

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your new Vetroo 850W 80 Plus Gold Full Modular ATX 3.1 Power Supply. Please read this manual thoroughly before installation and keep it for future reference.

Figure 1: Vetroo 850W Power Supply (White)

2. PRODUCT FEATURES

- **PCIe Gen 5.1 Ready:** Meets the latest PCIE 5.1 standards for improved performance and efficiency. Backward compatible with both PCIE 4.0 and 3.0.

- **Fully ATX 3.1 Compliant:** Designed to meet the newest, most advanced power supply standards.

- **Premium 105°C Capacitors:** High-quality materials and construction ensure stable, low-temperature operation.

- **80 Plus Gold Certified:** Meets high standards for quality and efficiency, ensuring reliable performance and energy savings.

- **Fully Modular Design:** Allows for easy cable management and customization, reducing cable clutter by only installing necessary cables.

- **Quiet Operation:** Features a 120mm FDB (Fluid Dynamic Bearing) fan for quiet cooling.

Figure 2: Overview of Vetroo 850W Power Supply features

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Vetroo 850W Power Supply Unit
- Modular Cable Set (including 24-pin ATX, CPU, PCIe, SATA, Molex, FDD connectors)
- AC Power Cord
- Mounting Screws
- Cable Management Ties
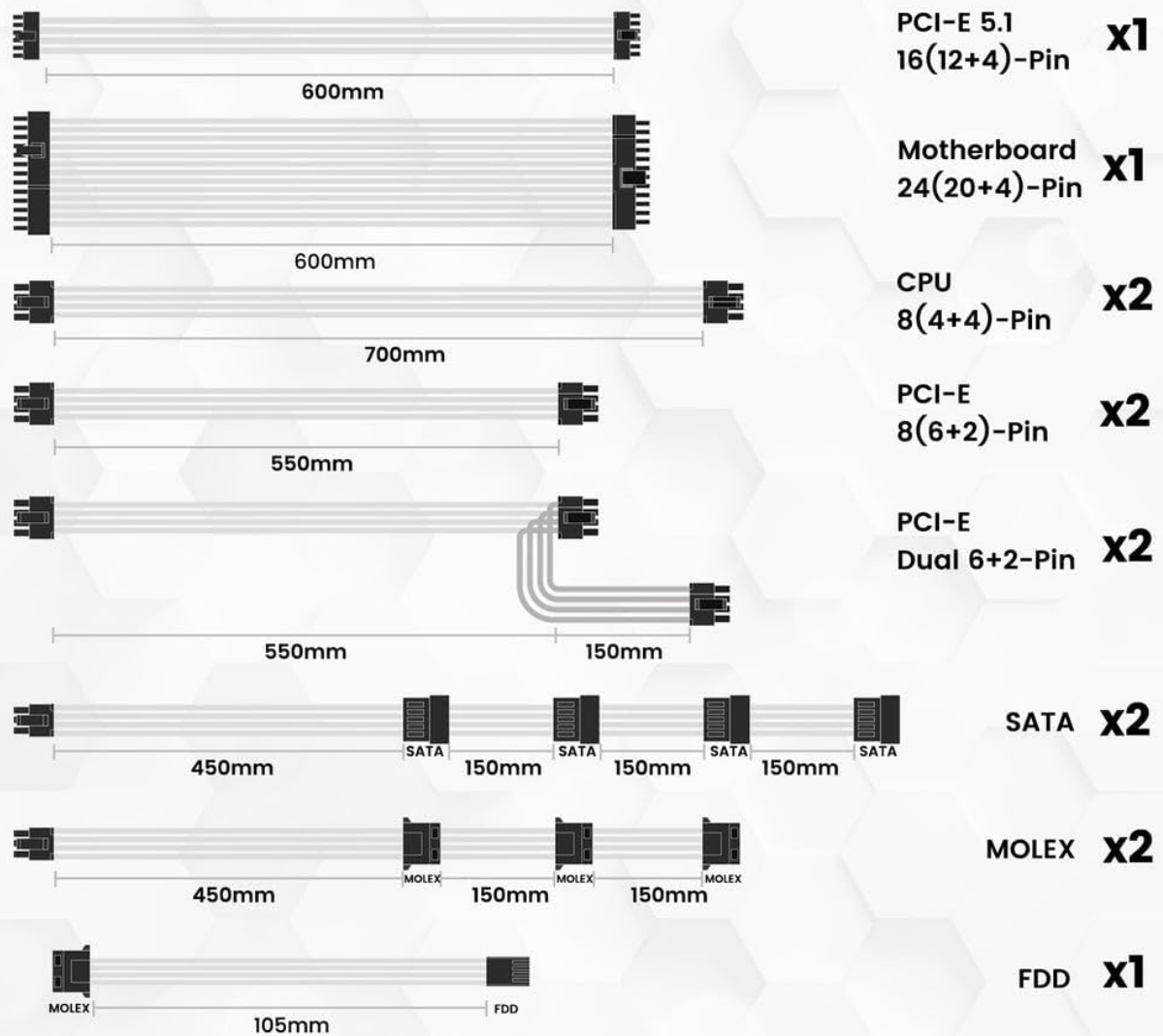- Storage Bag for Unused Cables

FULL MODULAR

600mm	PCI-E 5.1 16(12+4)-Pin **x1**
600mm	Motherboard 24(20+4)-Pin **x1**
700mm	CPU 8(4+4)-Pin **x2**
550mm	PCI-E 8(6+2)-Pin **x2**
550mm	**150mm**	PCI-E Dual 6+2-Pin **x2**
450mm SATA **150mm** SATA **150mm** SATA **150mm** SATA	SATA **x2**
450mm MOLEX **150mm** MOLEX **150mm** MOLEX	MOLEX **x2**
MOLEX **105mm** FDD	FDD **x1**

Figure 3: Included Modular Cables

4. SAFETY INFORMATION

WARNING: Improper installation or use can result in serious injury or damage to your system.

- Always disconnect the AC power cord from the wall outlet before installing or removing the power supply.
- Do not open the power supply unit. High voltages are present inside, even when disconnected.
- Ensure all cables are securely plugged into their respective ports. Loose connections can cause damage.
- Use only the modular cables provided with this power supply. Third-party cables may not be compatible and could cause serious damage.
- Install the power supply in a well-ventilated area, away from high humidity and extreme temperatures.

5. SETUP AND INSTALLATION

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

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall outlet.

2. **Mount the Power Supply:** Secure the power supply unit into the designated bay in your PC case using the provided mounting screws.

3. **Connect Main Power Cables:** Connect the 24-pin ATX cable to your motherboard.

4. **Connect CPU Power Cables:** Connect the 8-pin (4+4) CPU power cable(s) to your motherboard.

5. **Connect PCIe Power Cables:** Connect the necessary PCIe power cables (e.g., 12V-2x6 for PCIe 5.1 GPUs, or 8-pin (6+2) for older GPUs) to your graphics card(s).
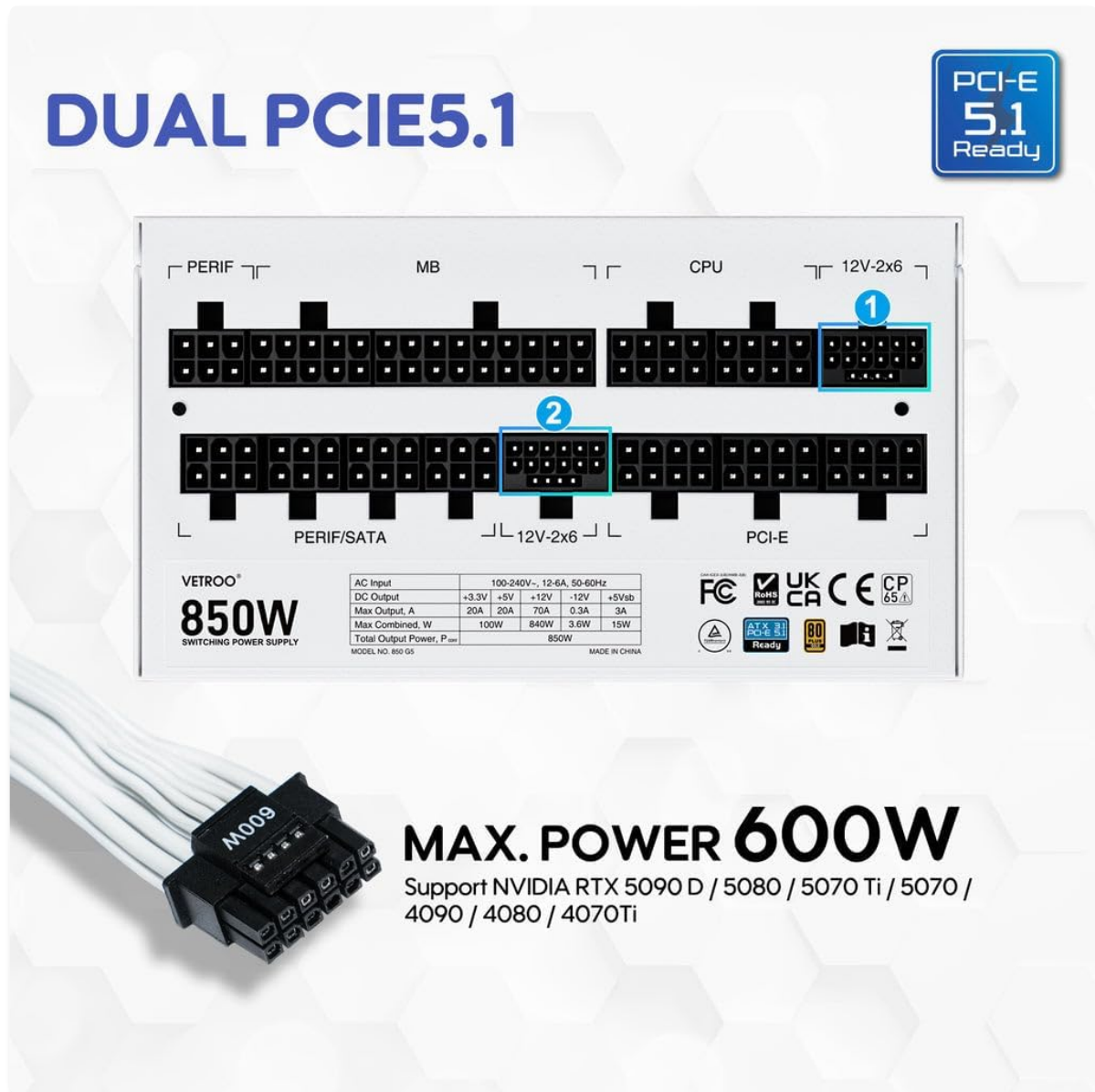

Figure 4: Dual PCIe 5.1 Connectors

6. **Connect Peripheral Cables:** Connect SATA, Molex, and FDD cables to your storage drives and other peripherals as needed.

7. **Cable Management:** Utilize the fully modular design and included cable ties to route cables neatly, improving airflow and aesthetics.

8. **Final Check:** Double-check all connections to ensure they are secure before closing your PC case.

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Video 1: Vetroo Power Supply Installation Guide. This video demonstrates the process of installing a Vetroo power supply into a PC case, including cable connections.

6. OPERATING INSTRUCTIONS

After successful installation, you can power on your system.

- **Power On:** Connect the AC power cord to the power supply and a wall outlet. Flip the main power switch on the power supply to the 'ON' position.

- **ECO Mode:** The power supply features an ECO mode switch. When 'ON', the fan will stop spinning unless the load is above approximately 50% of the rated capacity, ensuring silent operation at low loads. When 'OFF', the fan will spin continuously.
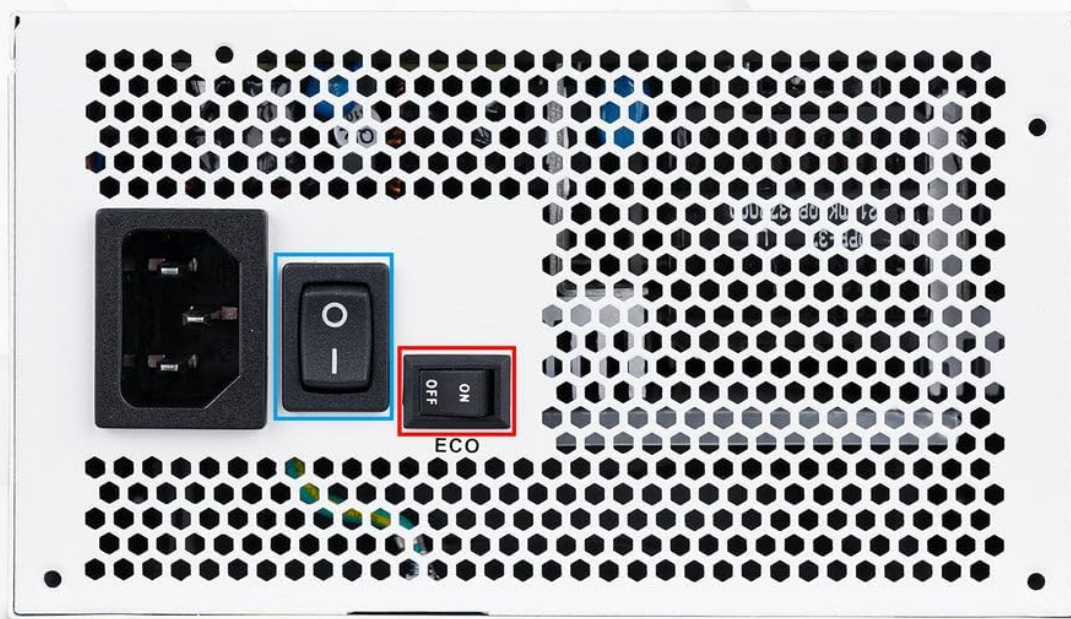

Figure 5: Power Switch and ECO Mode

7. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup, which can impede airflow and cooling. Use compressed air or a soft brush. Ensure the power supply is off and unplugged before cleaning.

- **Fan Operation:** The 120mm Fluid Dynamic Bearing fan is designed for durability and quiet operation. In ECO mode, the fan may not spin at low loads; this is normal.

8. TROUBLESHOOTING

If you encounter issues with your power supply, consider the following:

- **No Power:** Ensure the AC power cord is securely connected to both the power supply and the wall outlet. Verify the main power switch on the power supply is in the 'ON' position. Check your wall outlet with another device.

- **System Instability/Shutdowns:** This power supply includes multiple protection features (OVP, OCP, OPP, SCP, UVP, OTP) to safeguard your components. If your system is unstable or shuts down unexpectedly, it could indicate an issue with power delivery or another component. Ensure all power connections are firm.

- **Fan Not Spinning:** If the ECO mode is enabled, the fan will not spin until the power supply reaches approximately 50% load. This is normal operation for quiet performance. If the fan does not spin under heavy load, contact support.

- **Unusual Noises:** If you hear unusual noises (e.g., coil whine, grinding), power down your system immediately and contact support.

9. SPECIFICATIONS

Feature	Detail
Model Name	850 G5
Output Wattage	850 Watts
Efficiency Certification	80 Plus Gold
ATX Standard	ATX 3.1 Compliant
PCIe Standard	PCIe Gen 5.1 Ready
Form Factor	ATX
Cooling Method	Air (120mm FDB Fan)
Modular Type	Full Modular
Capacitors	Premium 105°C
Product Dimensions (L x W x H)	5.9 x 5.5 x 3.4 inches
Item Weight	5.7 pounds (2.59 Kilograms)

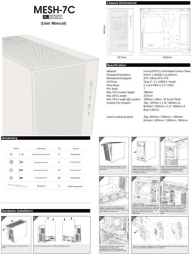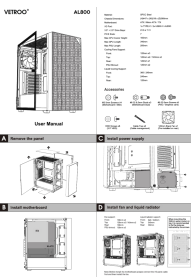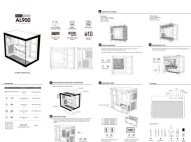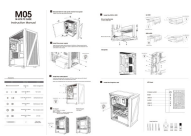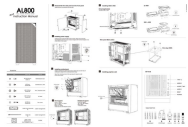| Feature	Detail
Compatible Devices	Personal Computer
Protection Features	OVP (Over Voltage Protection), OCP (Over Current Protection), OPP (Over Power Protection), SCP (Short Circuit Protection), UVP (Under Voltage Protection), OTP (Over Temperature Protection)

10. WARRANTY AND SUPPORT

The Vetroo 850W Power Supply comes with a **10-Year Warranty**, ensuring long-term reliability and peace of mind. For technical support, warranty claims, or any questions regarding your product, please visit the official Vetroo website or contact their customer service department.

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Video 2: Vetroo 850W Power Supply - White Product Overview. This video provides a visual overview of the white Vetroo 850W Power Supply.

Related Documents - 850 G5

[Vetroo MESH-7C AL SERIES PC Case User Manual](#)
Detailed user manual for the Vetroo MESH-7C AL SERIES PC case, covering specifications, dimensions, accessories, and hardware installation steps for building your computer.

[Vetroo AL800 PC Case User Manual](#)
User manual for the Vetroo AL800 PC case, detailing installation steps for components like the motherboard, power supply, fans, liquid radiators, HDDs, SSDs, and graphics cards. Includes I/O panel connection guide and accessory list.

[Vetroo AL900 ATX PC Case User Manual](#)
User manual for the Vetroo AL900 ATX PC Gaming Case, detailing assembly, installation of components like the power supply, and I/O panel connections.

[Vetroo M05 M-ATX PC Case Instruction Manual](#)
Detailed instruction manual for assembling the Vetroo M05 M-ATX PC Case, covering component installation, accessory usage, and I/O panel connections.

[Vetroo AL800 Full Tower Gaming Case Instruction Manual](#)

Comprehensive instruction manual for the Vetroo AL800 Full Tower Gaming PC Case. Learn how to install your power supply, motherboard, storage drives (SSD/HDD), graphics card, and understand fan and radiator support options. Includes accessory list and detailed step-by-step guidance.

[Vetroo DARKSTORM CPU Cooler Installation Guide](#)

Step-by-step installation instructions for the Vetroo DARKSTORM CPU Cooler, compatible with Intel LGA 1700/1200/115X and AMD AM4/AM3+ sockets. Includes component overview and installation steps for both Intel and AMD platforms.