SilverStone DA850R

SilverStone DA850R Gold 850W ATX 3.0 & PCIe 5.0 Power Supply User Manual

Model: DA850R Gold (SST-DA850R-GMA-WWW)

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your SilverStone DA850R Gold 850W ATX 3.0 & PCIe 5.0 Power Supply. Please read this manual thoroughly before installation to ensure proper and safe usage of the product. This power supply is designed to deliver stable and efficient power to your computer system, featuring ATX 3.0 compliance and a PCIe Gen5 12V-2x6 connector.

2. Safety Information

WARNING: Improper installation or use can lead to equipment damage, electric shock, or serious injury. Only qualified personnel should perform installation and servicing.

- Ensure the power supply is disconnected from the AC power outlet before installation or handling.
- Do not open the power supply casing. High voltages are present inside, even when disconnected.
- Install the power supply in a well-ventilated area, away from heat sources and moisture.
- Use only the modular cables provided with this power supply. Using incompatible cables may cause damage.
- Ensure all connectors are securely seated before powering on the system.
- This product is designed for use with personal computers. Do not use it for other applications.

3. Features

- White casing, white fan, and white cables (WWW model).
- 80 PLUS Gold certification for high efficiency.
- 24/7 continuous power output with 50°C operating temperature.
- Equipped with Gen5 12V-2x6 PCIe connector, meeting ATX 3.0 specification standard.
- Supports PCIe Gen 5 standard for up to 2X power excursion.
- Silent running 120mm fan with advanced semi-fanless operation (ECO mode).
- Compact 140mm depth design for easy integration.
- Fully modular cables utilizing SilverStone's 3rd generation modular interface.

4. Package Contents

- SilverStone DA850R Gold 850W Power Supply
- Modular Cable Set (MB 24-pin, EPS, PCIe, 12V-2x6, SATA, Peripheral)
- AC Power Cord
- Mounting Screws
- User Manual

5. Setup and Installation

5.1 Unpacking and Inspection

Carefully remove the power supply and all accessories from the packaging. Inspect for any signs of damage during transit. If any damage is found, contact your retailer immediately.

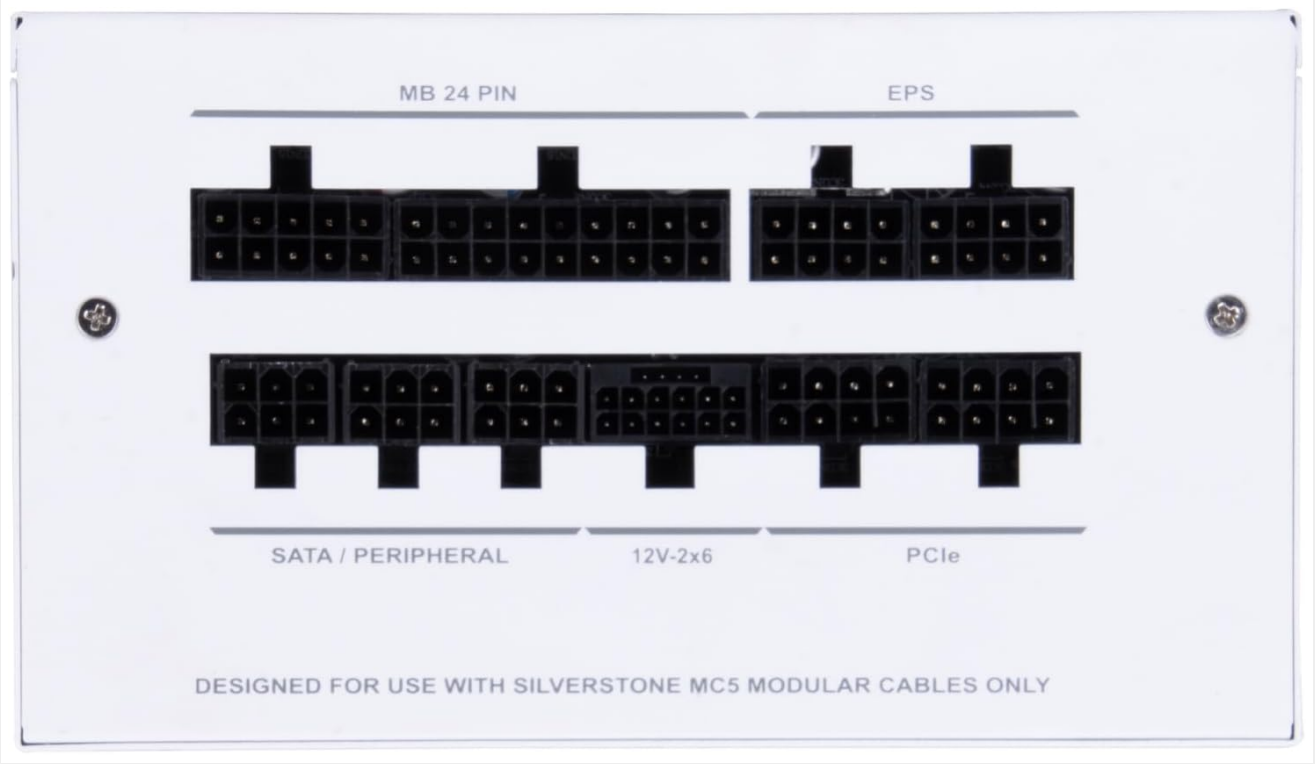
An overhead view of the SilverStone DA850R Gold 850W power supply, showcasing its white casing and the distinctive fan grille design.

5.2 Mounting the Power Supply

1. Ensure your computer case has a compatible ATX power supply mounting bay.
2. Slide the power supply into the designated bay, ensuring the fan faces the correct direction for optimal airflow (typically facing downwards or towards the inside of the case, depending on case design).
3. Secure the power supply to the case using the provided mounting screws.

5.3 Cable Connections

The DA850R Gold is a fully modular power supply. Connect only the necessary cables to reduce clutter and improve airflow. Ensure each cable is firmly inserted into both the power supply and the corresponding component.



Close-up of the modular connector panel on the SilverStone DA850R Gold power supply, indicating ports for MB 24-pin, EPS, PCIe, 12V-2x6, and SATA/Peripheral cables.

A detailed view of the 12V-2x6 PCIe Gen5 connector, emphasizing its design for high-power graphics cards and compliance with ATX 3.0 specifications.

- **MB 24-pin:** Connect to the motherboard's main power connector.
- **EPS (CPU):** Connect to the motherboard's CPU power connector(s).

- **PCIe:** Connect to graphics cards requiring 6-pin or 8-pin PCIe power.
- **12V-2x6:** Connect to PCIe Gen5 graphics cards requiring the 12V-2x6 (12+4 pin) connector. This connector is crucial for modern high-performance GPUs.
- **SATA/Peripheral:** Connect to SATA devices (SSDs, HDDs, optical drives) and other peripherals.

Important: Only use SilverStone MC5 modular cables with this power supply.

5.4 Initial Power-Up

1. After all internal connections are made, connect the AC power cord to the power supply's inlet and then to a wall outlet.
2. Ensure the main power switch on the power supply's rear panel is in the 'ON' position.
3. Power on your computer system.

The rear panel of the power supply, featuring the AC power inlet, main power switch, and a toggle switch for ECO mode (semi-fanless operation).

6. Operating Instructions

6.1 Semi-Fanless Operation (ECO Mode)

The SilverStone DA850R Gold features a semi-fanless mode, controlled by the 'ECO' switch on the rear panel. When 'ECO' mode is enabled (switch in 'ON' position), the fan will remain off during low to moderate loads to minimize noise. The fan will automatically activate when the power supply load or internal temperature exceeds a certain threshold, ensuring optimal cooling. When 'ECO' mode is disabled (switch in 'OFF' position), the fan will operate continuously.

7. Maintenance

To ensure the longevity and optimal performance of your power supply, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille using a soft, dry cloth. For internal cleaning (e.g., dust removal from fan blades), use compressed air. Ensure the power supply is

completely disconnected from AC power before cleaning.

- **Ventilation:** Ensure that the power supply's intake and exhaust vents are not obstructed. Good airflow is crucial for efficient cooling.
- **Cable Management:** Proper cable management within your PC case can improve airflow and reduce dust accumulation.

8. Troubleshooting

If you encounter issues with your 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 main power switch on the power supply's rear panel is in the 'ON' position.
  - Verify that all modular cables are correctly and firmly connected to both the power supply and the components.
  - Test the wall outlet with another device to confirm it has power.
- **System Instability/Random Shutdowns:**
  - Ensure your system's power requirements do not exceed the power supply's capacity.
  - Check for proper ventilation and ensure the power supply is not overheating.
  - Verify all power connections are secure.
- **Fan Not Spinning (in ECO mode):**
  - This is normal behavior for semi-fanless operation under low loads. The fan will activate automatically when needed.
  - If the fan never spins even under heavy load, try disabling ECO mode to force continuous fan operation. If it still doesn't spin, contact support.

If problems persist after following these steps, please contact SilverStone customer support or your retailer.

9. Specifications

The product label displaying model number (SST-AX0850MCGD-D), electrical specifications, certifications, and warnings.

Feature	Specification
Brand	SilverStone
Model Name	SST-DA850R-GMA-WWW
Item Model Number	SST-AX0850MCGD-D
Output Wattage	850W
80 PLUS Certification	Gold
ATX Standard	ATX 3.0
PCIe Connector	12V-2x6 (PCIe Gen5)
Form Factor	ATX
Power Supply Design	Full Modular
Cooling Method	Air (120mm fan with semi-fanless operation)

Color	White
Dimensions (LxWxH)	5.51 x 5.91 x 3.39 inches (140 x 150 x 86 mm)
Item Weight	5.59 pounds
Operating Temperature	Up to 50°C

10. Warranty and Support

SilverStone Technology provides a limited warranty for its products. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official SilverStone website. For technical support, troubleshooting assistance, or warranty claims, please contact SilverStone customer service through their official website or the contact information provided in your product packaging.

Official SilverStone Website: www.silverstonetek.com

Related Documents - DA850R

	SilverStone HELA Series 850W/750W ATX PSU Specifications Detailed specifications for the SilverStone HELA Series 850R Platinum and 750R Platinum fully modular ATX Power Supply Units (PSUs), including AC input, DC output, efficiency, environmental, and safety information.
	SilverStone Decathlon Series DA1000R Gold / DA1200R Gold ATX 3.0 Power Supply Specifications Detailed technical specifications for the SilverStone Decathlon Series DA1000R Gold and DA1200R Gold ATX 3.0 fully modular power supplies, covering electrical characteristics, efficiency, protection features, environmental requirements, and connector usage guidelines.
	SilverStone Gemini Series Redundant Power Supplies: Specifications and Features Explore the SilverStone Gemini Series 2U redundant power supplies (SST-GM600-2UG to SST-GM1000-2UG), featuring 80 PLUS Gold certification, hot-swappable design, active PFC, and industry-leading reliability for critical server and workstation applications.

	[SilverStone HELA 1200R Platinum 1200W ATX 3.0 Power Supply Specifications] Detailed specifications for the SilverStone HELA 1200R Platinum 1200W ATX 3.0 fully modular ATX power supply, including electrical characteristics, output regulations, protection features, environmental requirements, and connector usage guidelines.
	[SilverStone SFX Form Factor Power Supplies: SST-SX700-G, SX650-G, SX500-G Specifications] Detailed specifications for SilverStone's SFX Form Factor power supplies, including SST-SX700-G, SST-SX650-G, and SST-SX500-G models. Features 80 PLUS Gold efficiency, modular design, and comprehensive protection.
	[SilverStone Extreme Series 550W/650W SFX Power Supply Specifications] Detailed specifications for SilverStone's Extreme Series 550Rz Gold and 650Rz Gold SFX power supplies, including input/output characteristics, efficiency, protection features, and environmental requirements.