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SilverStone SST-ST85F-GS-V2

SilverStone Technology SST-ST85F-GS-V2 850W Power Supply User Manual

Fully Modular 80 PLUS Gold Certified ATX Power Supply

Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your SilverStone Technology SST-ST85F-GS-V2 850W Power Supply. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.
The SilverStone Strider Gold S Series power supplies are designed to meet the demands of modern desktop computers, offering high efficiency and a compact form factor. The SST-ST85F-GS-V2 model features 850W continuous output, 80 PLUS Gold certification, and a fully modular cable design for enhanced flexibility and cable management.

Safety Precautions

Always observe the following safety guidelines to prevent injury or damage to the product:

- Do not open the power supply unit. High voltages are present inside, even when disconnected from power. There are no user-serviceable parts inside.
- Ensure the power supply is disconnected from the AC outlet before installation or removal.
- Install the power supply in a well-ventilated area. Do not block any ventilation openings.
- This product is designed for indoor use only. Do not expose to water or high humidity.
- Use only the modular cables provided with this power supply. Using third-party cables may cause damage.

Package Contents

Verify that all components are present in the package:

- SilverStone SST-ST85F-GS-V2 850W Power Supply Unit
- Modular Cable Set (various types for motherboard, CPU, PCIe, SATA, Peripherals)
- AC Power Cord
- Mounting Screws

- Cable Ties
- User Manual



Image: Overview of the SilverStone SST-ST85F-GS-V2 power supply package contents, showing the PSU, various modular cables, mounting screws, and the user manual.

Specifications

Key technical specifications for the SST-ST85F-GS-V2 power supply:

Feature	Detail
Model No.	SST-ST85F-GS-V2
Max. DC Output	850W
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
Modular Cables	Fully Modular
Cooling System	120mm fan (18dBA minimum)
Dimensions (Depth)	140mm
Weight	3.42 pounds
Operating Temperature	24/7 continuous output at 40°C
Voltage Regulation	Strict 2.5%
+12V Rail	Class-leading single +12V rail



Image: The main product view of the SilverStone SST-ST85F-GS-V2 850W power supply, showing its compact design and the specification label on the side.



Image: A close-up view of the specification label on the SilverStone SST-ST85F-GS-V2 power supply, detailing AC input, DC output, and maximum power ratings.

Setup and Installation

Follow these steps to properly install your power supply unit into your computer system:

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case to access the power supply mounting area.
2. **Mount the Power Supply:** Carefully slide the SST-ST85F-GS-V2 power supply into the designated bay in your computer case. Align the screw holes on the PSU with those on the case. Secure the power supply using the provided mounting screws.
3. **Connect Modular Cables:**
    - **24-pin ATX Motherboard Cable:** Connect the large 24-pin cable from the PSU to the corresponding port on your motherboard.
    - **CPU Power Cable(s):** Connect the 4+4 pin or 8-pin CPU power cable(s) to the CPU power connector(s) on your motherboard.
    - **PCIe Power Cable(s):** For graphics cards, connect the appropriate 6+2 pin PCIe power cable(s) to your GPU.
    - **SATA Power Cables:** Connect SATA power cables to your storage drives (SSDs, HDDs) and optical drives.
    - **Peripheral (Molex) Power Cables:** Connect peripheral cables to any other components requiring Molex power.



Image: A rear view of the SilverStone SST-ST85F-GS-V2 power supply, highlighting the various modular cable connection ports for motherboard, CPU, PCIe, and peripherals.

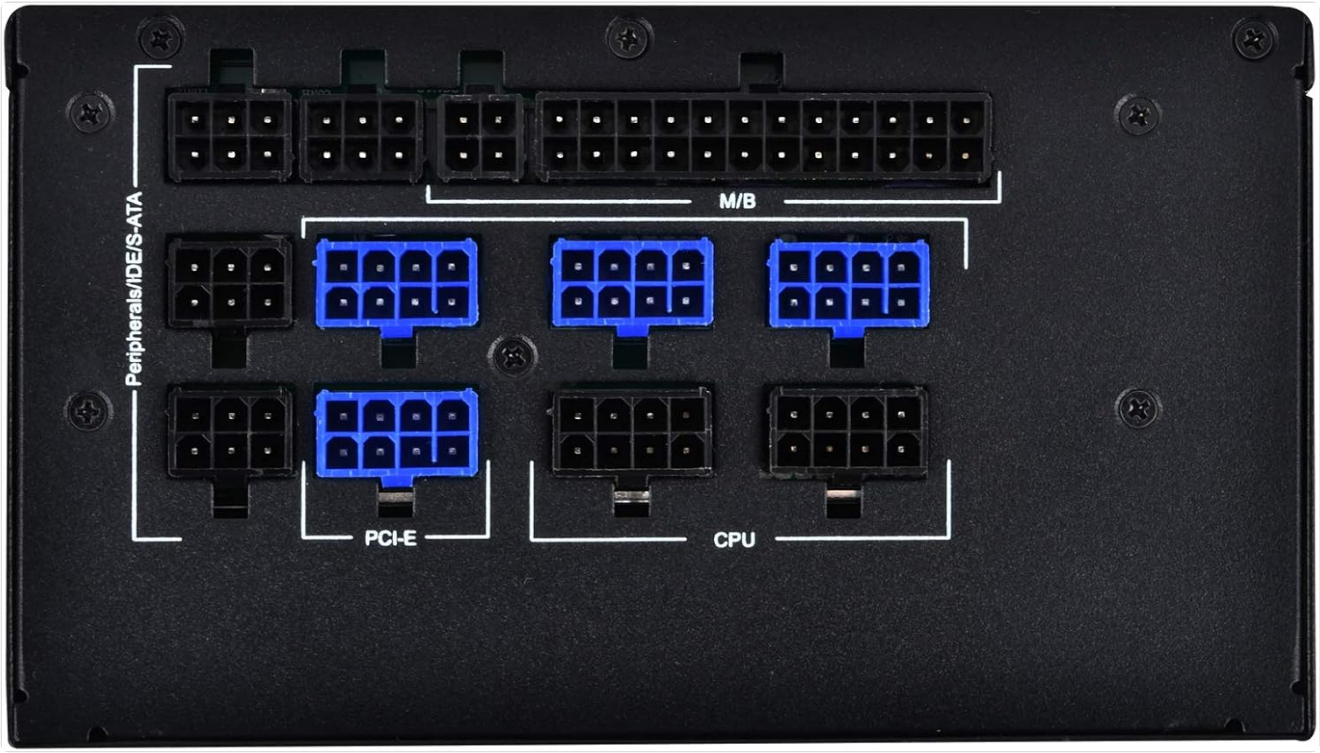


Image: A top-down perspective of the SilverStone SST-ST85F-GS-V2 power supply, clearly showing the labeled modular cable ports for different components like M/B, CPU, PCIe, and Peripherals/IDE/S-ATA.



Image: An illustration demonstrating the connection of the main ATX power cable from the SilverStone SST-ST85F-GS-V2 power supply to a motherboard, indicating proper cable routing.

4. **Cable Management:** Route cables neatly to improve airflow and aesthetics within your case. Use the provided cable ties if necessary.
5. **Close Case and Connect Power:** Once all connections are secure, close your computer case. Connect the AC power cord to the power supply and then to a wall outlet.

Operation

After successful installation, operating your SilverStone power supply is straightforward:

1. **Power On:** Ensure the power switch on the back of the power supply is in the 'ON' (I) position.
2. **System Boot:** Press the power button on your computer case. The power supply will provide stable power to all connected components, allowing your system to boot up.
3. **Fan Operation:** The 120mm fan on the power supply will operate to cool the unit. Its speed is automatically controlled based on the power supply's temperature and load to maintain optimal cooling while minimizing noise.



Image: The rear panel of the SilverStone SST-ST85F-GS-V2 power supply, showing the AC power inlet and the main power switch (On/Off).



Image: A top-down view of the SilverStone SST-ST85F-GS-V2 power supply, showcasing its 120mm cooling fan with the SilverStone logo at its center.

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. Use compressed air to gently blow dust out. Ensure the power supply is off and unplugged before cleaning.
- **Environmental Conditions:** Operate the power supply in a clean, dry, and well-ventilated environment. Avoid extreme temperatures and humidity.
- **Cable Inspection:** Occasionally check all modular cable connections to ensure they are securely seated.

Troubleshooting

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	Power switch off, AC cable loose, faulty outlet, internal short.	Ensure PSU power switch is 'ON' (I). Check AC power cord connection at both PSU and wall outlet. Test the wall outlet with another device. Verify all modular cables are securely connected to the PSU and components. If problem persists, consult a qualified technician.
System powers on but shuts down immediately.	Overload, overheating, short circuit, component failure.	Ensure total power draw does not exceed 850W. Check for proper ventilation and clear any obstructions around the PSU fan. Inspect for any loose screws or components that might be causing a short circuit. Disconnect non-essential components to isolate the issue.
Fan is excessively loud.	Dust buildup, high load/temperature, faulty fan.	Clean dust from the fan and grilles (with power off and unplugged). Ensure adequate airflow within the case. If noise persists after cleaning and under normal load, the fan may be faulty.

If these steps do not resolve your issue, please contact SilverStone customer support or your retailer for further assistance.

Warranty Information

SilverStone Technology provides a limited warranty for its products. Please refer to the official SilverStone website or the warranty card included with your product for the most current and detailed warranty terms and conditions specific to your region.
Typically, the warranty covers defects in materials and workmanship under normal use. Damage resulting from improper installation, accident, abuse, misuse, natural disaster, or unauthorized modification is not covered.

Customer Support

For technical support, product inquiries, or warranty claims, please visit the official SilverStone Technology website: www.silverstonetek.com
You may find FAQs, driver downloads, and contact information for your specific region on their support pages.

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Model: SST-ST85F-GS-V2

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