SilverStone SST-ST1300-TI-X

SilverStone Technology ST1300-TI 1300W Power Supply
USER MANUAL

Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your SilverStone Technology ST1300-TI 80 Plus Titanium 1300W Fully Modular ATX/PS2 Power Supply. Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

An overview of the SilverStone ST1300-TI 1300W power supply, showcasing its design and the product packaging.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the power supply and connected components:

- Do not open the power supply unit. High voltages are present inside, even when disconnected from power.
- Ensure the power supply is disconnected from the AC outlet before installation or maintenance.
- Install the power supply in a well-ventilated area.
- Use only the modular cables provided with the power supply. Using incompatible cables may cause damage.
- Avoid exposing the power supply to moisture or extreme temperatures.
- If the power supply is damaged or malfunctions, discontinue use immediately and contact SilverStone support.

Package Contents

Verify that all items are present in the package:

- SilverStone ST1300-TI Power Supply Unit
- Modular Cable Set (ATX 20+4 pin, EPS/ATX 4+4 pin, PCIe 6+2 pin, SATA, 4-pin Peripheral)
- AC Power Cord
- Mounting Screws
- User Manual (this document)
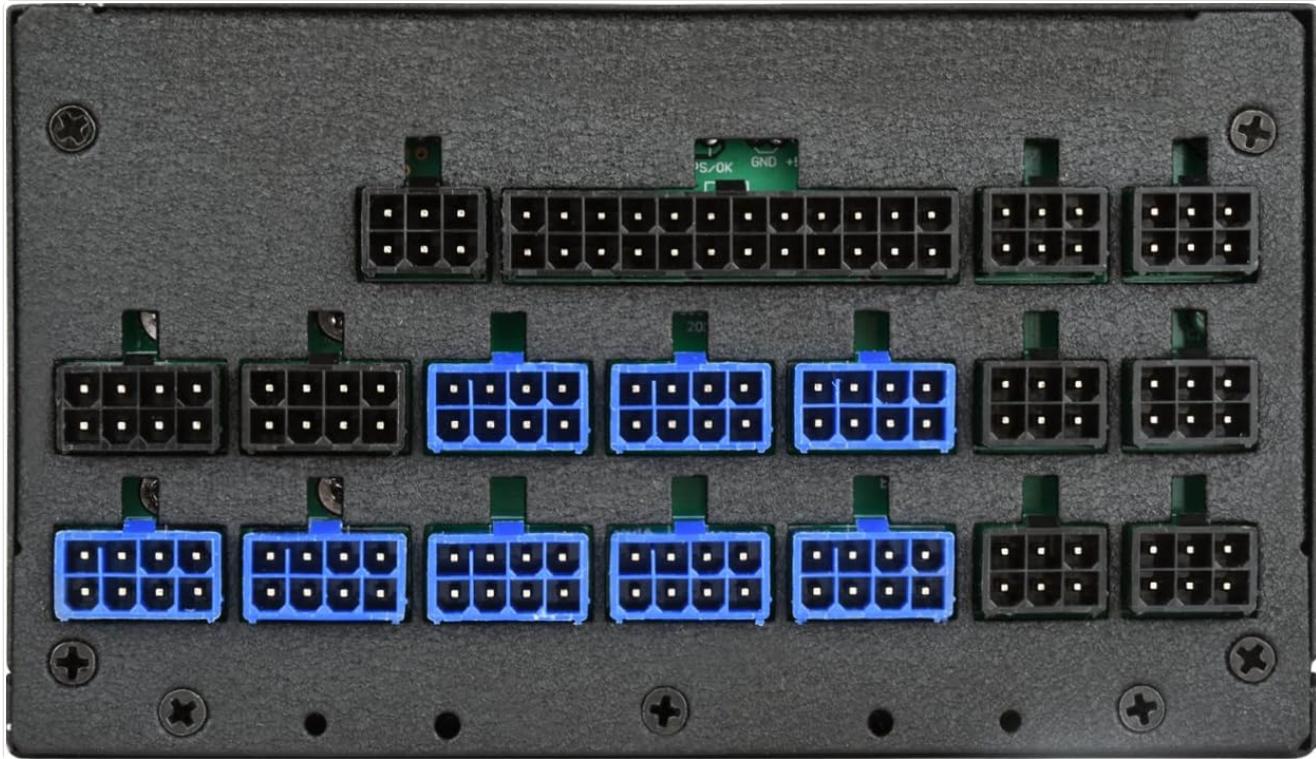- Cable Ties (optional, may be included)

Setup and Installation

Follow these steps for proper installation of your power supply:

1. **Prepare Your System:** Ensure your computer case is compatible with ATX/PS2 form factor power supplies. Disconnect all power from your system and open the computer case.

2. **Mount the Power Supply:** Carefully slide the ST1300-TI into the power supply bay of your computer case. Align the screw holes and secure the power supply with the provided mounting screws.

3. **Connect Modular Cables:**

This image provides an angled perspective of the ST1300-TI power supply, highlighting the array of modular cable connection ports on the front panel and the top-mounted cooling fan.

Connect only the necessary modular cables to the power supply. The ST1300-TI is fully modular, allowing for cleaner cable management.

A detailed view of the modular cable connection ports on the SilverStone ST1300-TI power supply, indicating various types of connectors for different components.

- **20+4 Pin ATX Motherboard Cable:** Connect to the main power connector on your motherboard.
- **4+4 Pin EPS/ATX 12V Cable:** Connect to the CPU power connector on your motherboard.
- **6+2 Pin PCIe Cables:** Connect to your graphics cards (GPUs) as required.
- **SATA Power Cables:** Connect to SATA devices such as SSDs, HDDs, and optical drives.
- **4-pin Peripheral (Molex) Cables:** Connect to older peripherals or case fans if needed.

4. **Cable Management:** Route cables neatly to improve airflow and aesthetics within your case.

5. **Close Case:** Once all connections are secure, close your computer case.

6. **Connect AC Power:** Plug the provided AC power cord into the power supply's AC inlet and then into a wall outlet or surge protector.

Operating Instructions

To power on your system:

1. Ensure the power switch on the back of the ST1300-TI power supply is in the "ON" (I) position.

2. Press the power button on your computer case.

The ST1300-TI features an ultra-silent 135mm fan with intelligent semi-fanless operation. The fan may not spin at low loads to minimize noise, activating only when necessary to maintain optimal temperatures.

A direct overhead view of the 135mm cooling fan and its protective grille on the SilverStone ST1300-TI power supply.

Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your power supply:

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille using a soft, dry cloth. For deeper cleaning, use compressed air to remove dust from the fan and internal components, ensuring the system is powered off and unplugged.
- **Inspection:** Regularly inspect cables for any signs of wear, fraying, or damage. Ensure all connections are secure.
- **Ventilation:** Ensure that the power supply's intake and exhaust vents are not obstructed to allow for proper airflow.

Troubleshooting

If you encounter issues with your ST1300-TI power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	Power switch is off. AC power cord is loose or disconnected. Main motherboard cable is not fully seated. Faulty component (e.g., motherboard, CPU).	Ensure power switch is in "ON" (I) position. Check AC power cord connection at both the PSU and wall outlet. Verify all modular cables are securely connected to the PSU and components. Test components individually if possible, or consult a technician.
System powers on but shuts down immediately.	Overload or short circuit. Overheating. Faulty component.	Disconnect non-essential components and retest. Ensure adequate ventilation and clean dust from fan/vents. Verify all cables are correctly installed and not shorting.

Problem	Possible Cause	Solution
Fan is not spinning.	Semi-fanless mode is active (low load). Fan malfunction.	This is normal behavior at low loads. The fan will spin up under higher load. If fan does not spin under high load and PSU is hot, contact support.

For further assistance, please refer to the support section or SilverStone's official website.

Specifications

Key specifications for the SilverStone ST1300-TI power supply:

The product label on the SilverStone ST1300-TI power supply, displaying electrical specifications such as AC input, DC output voltages, and maximum power ratings.

Feature	Detail
Model Name	SST-ST1300-TI-X
Brand	SilverStone
Form Factor	ATX
Output Wattage	1300W
Efficiency Rating	80 Plus Titanium
Modularity	Fully Modular
Cooling Method	Air (135mm fan with intelligent semi-fanless operation)
Operating Temperature	24/7 continuous power output with 50°C operating temperature
Capacitors	Japanese electrolytic capacitors
Voltage Regulation	Strict ±3% voltage regulation and low ripple & noise
Dimensions (LxWxH)	7.09 x 5.91 x 3.39 inches (180 x 150 x 86 mm)

Feature	Detail
Weight	8.7 pounds (3.95 kg)

Warranty and Support

For detailed warranty information, please refer to the official SilverStone Technology website or the warranty card included with your product. SilverStone provides technical support for their products.

Online Support: Visit the official SilverStone Technology website for FAQs, driver downloads, and support contact information.
www.silverstonetek.com