Lian Li SX0850P.W

Lian Li SX Platinum 850W ATX 3.1 Power Supply User Manual

Model: SX0850P.W

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Lian Li SX Platinum 850W SXP Compact ATX Form Factor Power Supply. Please read this manual thoroughly before installation and keep it for future reference.
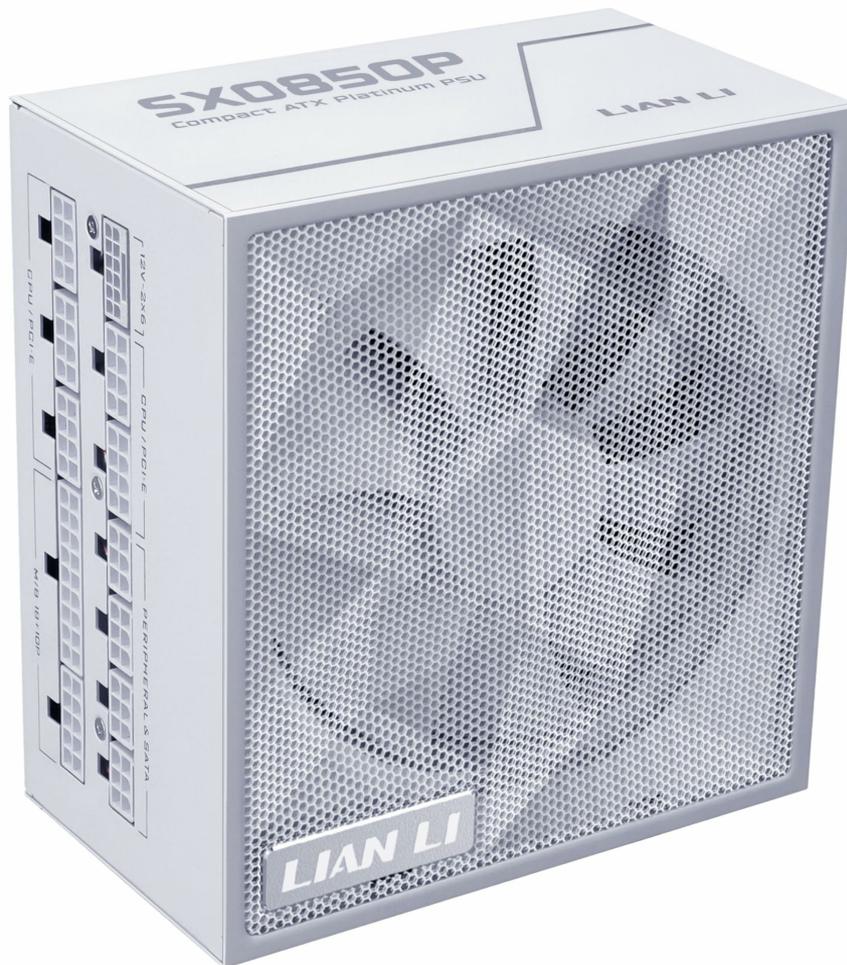
Image 1: Lian Li SX Platinum 850W Power Supply (White Model)

2. KEY FEATURES

- **80 Plus Platinum Certified:** Achieves up to 92% efficiency at 50% load, ensuring cooler, quieter, and more energy-efficient operation with stable voltage regulation.

- **ATX 3.1 & PCIe 5.1 Compliant:** Supports power excursions up to 200% of its rated output, delivering stable power for high-performance systems.

- **Compact ATX Form Factor:** With dimensions of 150 x 86 x 140 mm (5.9"W x 3.4"H x 5.5"D), it fits a wide range of cases, including mATX, leaving more interior space.

- **Fully Modular Design:** Allows installation of only necessary cables, reducing clutter and improving airflow.

- **Ample PCIe 6+2 Connectors:** Provides sufficient connectors for multiple accessories and modern graphics cards.

- **Smart Cooling Technology:** Features a fanless mode at ≤40% load for silent operation, maintaining optimal temperatures during high loads.

- **Flexible Braided Cables:** Super flexible DC cables facilitate effortless cable management and a clean aesthetic.

- **105°C-Rated Capacitors:** Built with 100% Japanese 105°C-rated capacitors for exceptional durability and stable performance under thermal stress.

- **10-Year Hardware Protection:** Ensures long-term stability and peace of mind.

3. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and disconnected from the main power source. Refer to your PC case manual for specific power supply mounting instructions.

3.1 Unboxing and Component Check

Carefully unpack the power supply and its accessories. Verify all components listed in the package contents are present.

Your browser does not support the video tag.

Video 1: Lian Li SXP Platinum PSU unboxing video. This video demonstrates the unboxing process and shows the included components of the power supply.

3.2 Mounting the Power Supply

Install the power supply into the designated bay in your PC case. Secure it using the provided screws.

3.3 Cable Connection

Due to the fully modular design, connect only the cables required for your system components. Ensure all connections are firm and correctly oriented.
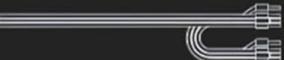
CABLE CONFIGURATION

Connector Type	Connector	850W	1000W 1200W	Cable Length
		Quantity		
Main Power (20+4 Pin)		1		600mm
ATX 12V (4+4 Pin)		2		700mm
PCIe (8 Pin)		2	3	550mm
PCIe (6+2 Pin)		1	0	550mm+150mm
12V-2×6 to Dual PCIe (6+2 Pin)		0	1	550mm
SATA (5 Pin)		2		400mm+150mm +150mm+150mm
Peripheral (4 Pin)		1		400mm+150mm +150mm+150mm
PCIe (12V-2×6)		1		600mm

Image 2: Cable Configuration. This image illustrates the various connector types, quantities, and cable lengths for the 850W, 1000W, and 1200W models. The SX Platinum series includes braided cables for a clean and professional look. Ensure the 12V-2x6 connector's blue section is fully inserted when connecting to the graphics card for safe and efficient power delivery.

100% JAPANESE RUBYCON 105°C CAPACITORS

All electrolytic and solid capacitors are sourced from leading Japanese brands, Rubycon, Nippon Chemi-Con, or Nichicon, and are 105°C-rated components. These high-grade capacitors ensure stable voltage regulation, lower ripple, and long-term reliability even under high-temperature operation.

Image 3: Braided Cables for a Finished Look. This image highlights the aesthetic and functional benefits of the braided cables and cable combs.

BRAIDED CABLES FOR A FINISHED LOOK

The SX Platinum Series includes braided cables and cable combs to enhance both appearance and durability, making cable management easier and giving your build a clean, professional finish.

Note: Main cables use braided sleeving. The 24-pin, CPU, and 12V-2×6 GPU cables include cable combs. Other cables, such as SATA and the 12V-2×6 to dual PCIe (6+2) Pin cable, use flat ribbon sleeving.

Image 4: Stable Dual-Color PCIe 5.1 Connector. This image details the construction of the 12V-2x6 copper-alloy terminal for enhanced stability and performance.

4. OPERATING INSTRUCTIONS

4.1 Smart Stop/Start Fan Mode

The power supply features a Smart Stop/Start fan mode. When the PSU load is at or below 40%, the fan enters this mode to keep the system quiet under low loads. This feature can be enabled or disabled using the switch on the rear of the unit.
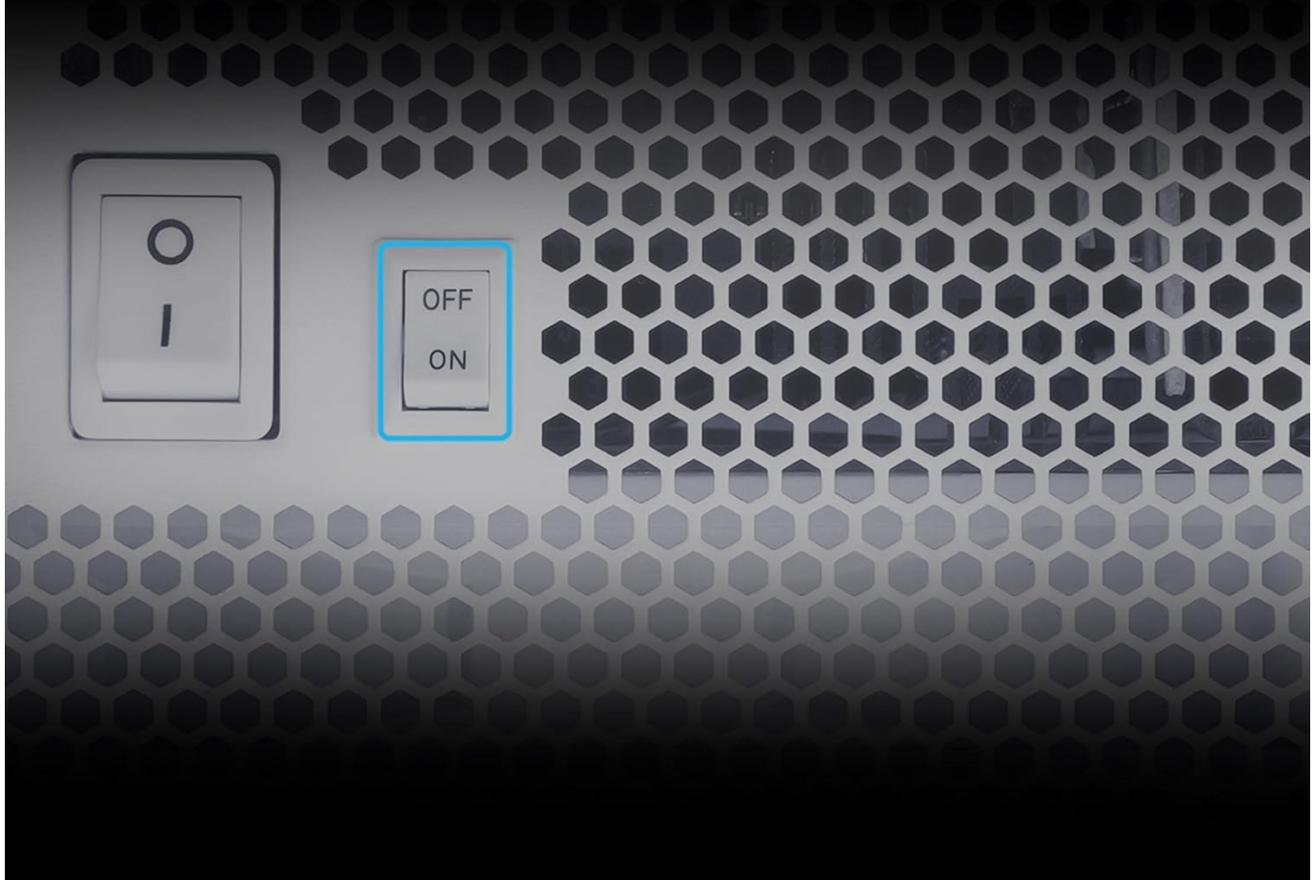
Image 5: Smart Stop/Start Switch. This image shows the physical switch on the power supply for enabling or disabling the fanless mode.

4.2 Power On/Off

After all connections are made, connect the power supply to a wall outlet and flip the main power switch to the 'ON' position. Your system should now be ready to power on.

Your browser does not support the video tag.

Video 2: LianLi - SX Series PSU product video. This video provides an overview of the SX Series Power Supply, showcasing its features and design.

5. MAINTENANCE

To ensure optimal performance and longevity of your power supply, regular maintenance is recommended:

- **Keep Vents Clear:** Ensure the power supply's intake and exhaust vents are free from dust and obstructions to allow for proper airflow.
- **Dust Removal:** Periodically clean the power supply and surrounding area with compressed air to prevent dust buildup, which can hinder cooling efficiency.
- **Cable Management:** Maintain tidy cable management to improve airflow within your PC case, contributing to lower operating temperatures for all components, including the PSU.

6. TROUBLESHOOTING

If you encounter issues with your Lian Li SX Platinum Power Supply, consider the following steps:

- **No Power:** Check all power connections, including the wall outlet, power cable to the PSU, and internal connections (24-pin ATX, CPU, PCIe). Ensure the main power switch on the PSU is in the 'ON' position.
- **System Instability/Crashes:** Verify that your system's power requirements do not exceed the 850W capacity of the PSU. Ensure all cables are securely connected, especially the 12V-2x6 connector for the GPU.
- **Fan Noise:** If the fan is operating at high loads, this is normal. If the fan is excessively noisy at low loads, check if the Smart Stop/Start feature is enabled or disabled as desired.
- **Missing Parts or Cable Issues:** For any missing parts or cable color issues, contact Lian Li RMA support for assistance or replacement.

If problems persist after following these steps, please contact Lian Li customer support.

7. SPECIFICATIONS

Feature	Detail
Model Name	SX0850P.W
Brand	Lian Li
Output Wattage	850 Watts
Form Factor	ATX
Product Dimensions	5.91 x 3.39 x 5.51 inches (150 x 86 x 140 mm)
Item Weight	6.38 pounds
Efficiency Certification	80 Plus Platinum
Connector Type	PCI Express (12V-2x6)
Cooling Method	Air (140mm FDB fan)
Fan Count	1
Hardware Protection	10 Years

VENTED FRONT PANEL FOR BETTER AIRFLOW

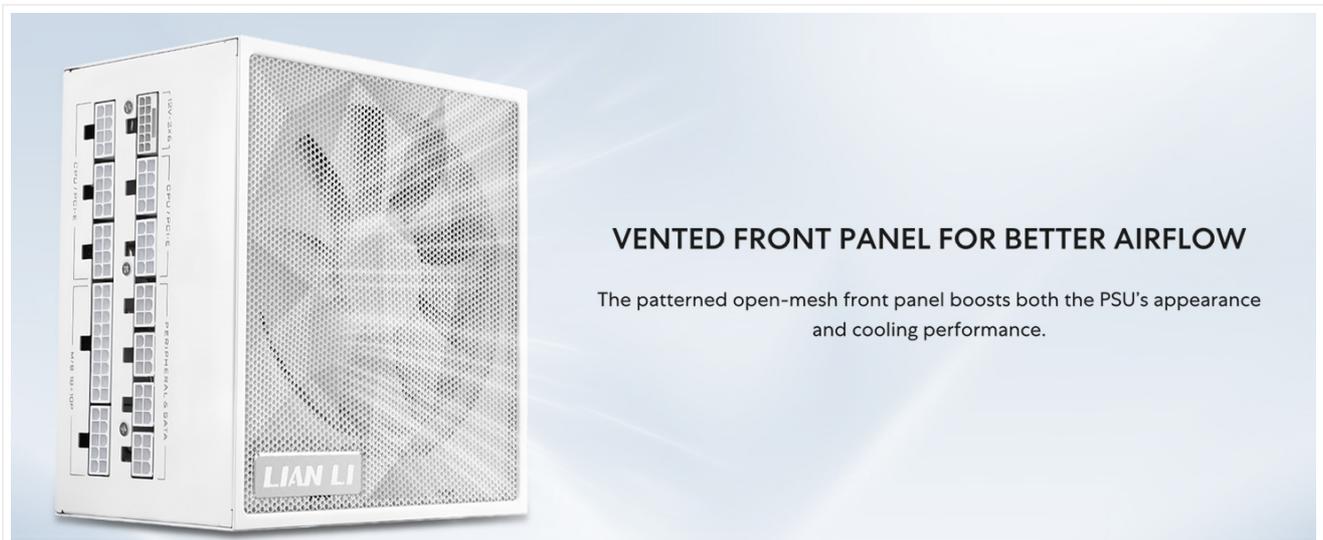The patterned open-mesh front panel boosts both the PSU's appearance and cooling performance.

Image 6: Detailed Specifications Table. This table provides comprehensive technical details for the SX Platinum series, including the SX0850P model.

8. WARRANTY AND SUPPORT

The Lian Li SX Platinum 850W Power Supply comes with a **10-year hardware protection warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or inquiries regarding missing parts or cable issues, please contact Lian Li customer support through their official website or the retailer where the product was purchased. Please have your product model number (SX0850P.W) and proof of purchase ready.

SPECIFICATIONS

PRODUCT NAME	MODEL	DIMENSIONS	DC OUTPUT CABLING	COLOR	ATX12V VERSION	EFFICIENCY CERTIFICATION	MAX.DC OUTPUT	COMBINED +3.3V& 5V OUTPUT	COMBINED +12V OUTPUT	INPUT VOLTAGE	INPUT CURRENT RANGE	POWER FACTOR CORRECTION (PFC)	PROTE-CTION	FAN TYPE	MAX. FAN SPEED	AVERAGE FANLESS OPERATING TIME	HARDWARE PROTECTION
SX0850P	SX0850P						850W	100W	849.6W		6-12A,50-60Hz						
SX1000P	SX1000P	(W)150 mm X (H)86mm X(D)140 mm	Fully-Modular	Black/ White	ATX3.1	80 PLUS Platinum	1000W	100W	999.6W	100-240Vac	6-12A,50-60Hz	Active PFC, PF ≥ 0.95 at full load @ 115 Vac, 60 Hz	OPP/ NLP/ OVP/ SCP/ UCP / OTP/ UVP/ SIP	120 mm FDB fan	2000RPM	Minimum 100,000 hours @ 25℃/ 75% load	10 Years
SX1200P	SX1200P						1200W	100W	1200W		7.5-14.8A, 50-60Hz						

Image 7: 10-Year Hardware Protection. This image highlights the extensive warranty period for the SX Platinum Series.