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› Lian Li SP0850P Platinum 850W SFX Power Supply User Manual

## Lian Li SP0850P

# Lian Li SP0850P Platinum 850W SFX Power Supply User Manual

Model: SP0850P

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Lian Li SP0850P Platinum 850W SFX Form Factor Power Supply. Please read this manual thoroughly before installation and keep it for future reference.

The Lian Li SP0850P is a compact SFX power supply designed for high-performance systems, offering 850 watts of stable power with 80 Plus Platinum efficiency. It features a fully modular design, 100% Japanese 105°C capacitors, and ATX 3.1 & PCIe 5.1 compliance with a 12V-2x6 connector.

## 2. SAFETY INFORMATION

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- Ensure the power supply is disconnected from the main power outlet before installation or maintenance.
- Do not open the power supply unit. High voltages are present inside, and opening the unit will void the warranty.
- Install the power supply in a well-ventilated area to prevent overheating.
- Use only the modular cables provided with your Lian Li power supply. Using third-party cables may cause damage to the PSU or connected components.
- Ensure all cable connections are secure and fully seated to prevent electrical shorts or instability.
- Keep the product away from water, humidity, and extreme temperatures.

## 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- Lian Li SP0850P Platinum 850W SFX Power Supply Unit
- Fully Modular Cable Set (including 12V-2x6 cable)
- SFX-to-ATX Bracket
- AC Power Cord
- Mounting Screws
- Cable Ties
- User Manual
- Convenient Internal Power Switch Cable (C14-to-C13 with inline switch)

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**Video:** Unboxing the Lian Li SP Platinum PSU. This video demonstrates the contents of the power supply package, including the unit itself, modular cables, and accessories.

## 4. INSTALLATION

### 4.1 Installing the Power Supply

1. Identify the power supply mounting area in your PC case. For SFX cases, the unit fits directly. For ATX cases, attach the included SFX-to-ATX bracket to the power supply first.
2. Secure the power supply to the case using the provided mounting screws.



**Image:** The Lian Li SP0850P Platinum SFX Power Supply shown with the included SFX-to-ATX bracket, illustrating its compatibility with both SFX and ATX case form factors. Examples of case installations are also displayed.

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**Video:** SFX ATX Bracket Installation Guide. This video demonstrates the process of installing the SFX-to-ATX bracket onto the power supply and then mounting it into a PC case.

### 4.2 Connecting Modular Cables

1. Connect the necessary modular cables to the power supply unit. Refer to the "Comprehensive Connectivity" section for cable types and quantities.
2. Connect the other end of the cables to your motherboard, graphics card, and other components. Ensure all connections are firm and fully seated.
3. For the 12V-2x6 connector, ensure the blue-marked connector is fully inserted into your graphics card for proper connection and safe operation.



**Image:** A detailed view of the 12V-2x6 power connector and its corresponding port on a graphics card. A note emphasizes that the blue-marked connector must be fully inserted to ensure proper connection and safe operation.

The super flexible DC cables simplify cable routing for a clean, clutter-free build and improved airflow within your system.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

Connect the AC power cord to the power supply and a wall outlet. If using the included internal power switch cable, ensure the switch is in the "ON" position before connecting or disconnecting the main power cable.



**Image:** A visual guide demonstrating the use of the convenient internal power switch cable. It shows the cable connected to the power supply within a PC chassis and a close-up of the switch, advising to keep it in the ON position when connecting or disconnecting the main power cable.

### 5.2 Smart Cooling Feature

The power supply features a smart cooling system with a fanless mode. The fan remains off for silent operation when the system load is at or below 40%. As performance demands increase and the load exceeds 40%, the fan will automatically engage and ramp up to maintain optimal temperatures and ensure long-term reliability.



**Image:** A close-up view of the power supply's fan, illustrating the "Smart Cooling, Whisper Quiet" feature. It highlights the zero-RPM mode for silent operation under 40% load and the fan ramping up as performance demands increase to maintain temperatures.

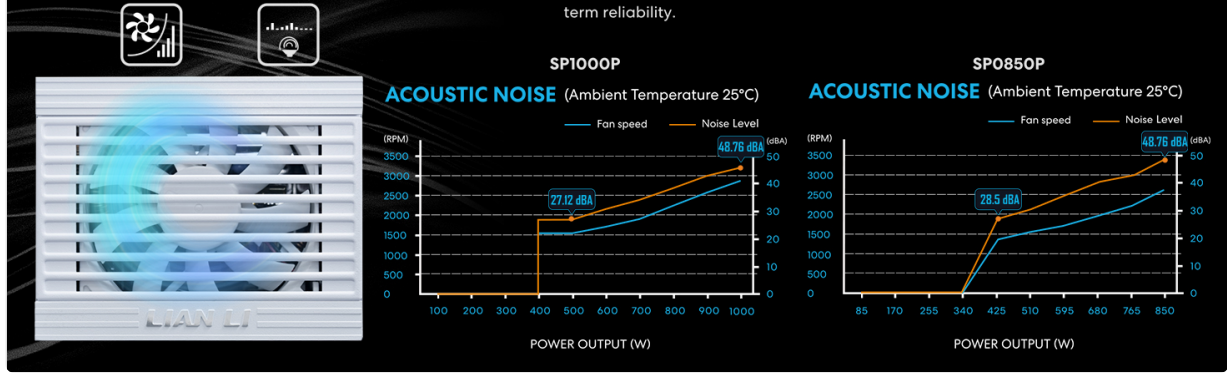
## 6. COMPREHENSIVE CONNECTIVITY

The SP Platinum Series is equipped with a variety of cables to support high-performance builds. Below is a table detailing the included cables and their quantities for the 850W model:

Cable Type	Description	Quantity (850W)
Motherboard	1x 24 / 20-pin, 350mm	1
CPU/ATX 12V	1x 4+4pin CPU, 450mm	2
PCI-E	2x 8 / 6+2 pin, 400mm+150mm	1
PCI-E	1x 8x6+2 pin, 400mm	1
12V-2x6	1x 12-20x6, 400mm (600W)	1
SATA	3x SATA, 350-150-150mm	1
SATA-PATA	2x SATA + 2x PATA, 300-150-150-150mm	1

## SMART COOLING, WHISPER QUIET

Enjoy true silence with a zero-RPM mode under 40% load. When performance demands increase, the fan ramps up seamlessly to keep temperatures in check and ensure long-term reliability.



**Image:** A comprehensive diagram showcasing the modular cables provided with the Lian Li SP Platinum power supply. It details each cable type (Motherboard, CPU/ATX 12V, PCI-E, 12V-2x6, SATA, SATA-PATA), their configurations, and the quantities included for both 750W and 850W models.

## 7. SPECIFICATIONS

Feature	Detail
Model	SP0850P
Dimensions (L x W x H)	125mm x 63.5mm x 100mm (4.92 x 2.5 x 3.94 inches)
Output Cable	Fully Modular
Color	Black
Material	SECC
ATX12V Version	ATX 3.1
Efficiency Certification	80 PLUS Platinum
Max. DC Output	850W
Combined +3.3V & +5V	100W
Combined +12V	849.6W
Input Rating	100-240Vac, 50-60Hz, 6-12A
PFC	Active PFC (PF>0.95 under full load @ 115Vac, 60Hz)
Protection	OPP/NLP/OVP/OCP/SCP/UVP/OTP/SIP
Fan	92mm FDB Fan
Fan RPM	2500RPM
Fanless Mode	Yes
Noise Level	40dBA
Working Temperature	0-40°C
Hardware Protection	10 Years

The power supply is built with 100% Japanese Rubycon 105°C capacitors for superior durability and stable performance.

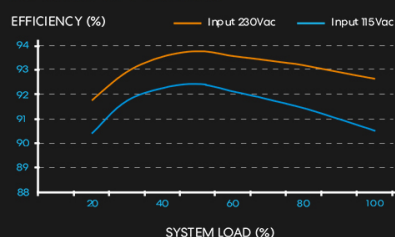
## PLATINUM EFFICIENCY

Certified with both 80 PLUS® Platinum and PPLP Platinum, the SP Series delivers up to 92% efficiency at 50% load for cooler operation, quieter acoustics, and lower energy costs. Designed for professional reliability, it ensures exceptional performance with tight voltage regulation and ultra-low ripple, keeping your GPU and CPU stable even during sudden power swings.



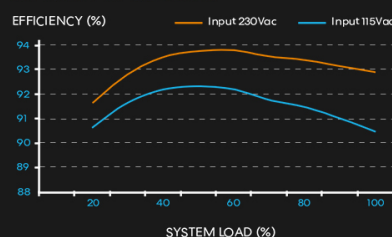
SP1000P

### 80 PLUS EFFICIENCY



SP0850P

### 80 PLUS EFFICIENCY



**Image:** An internal view of the Lian Li SP Platinum power supply, highlighting its construction with 100% Japanese Rubycon 105°C capacitors and other protection features, ensuring reliable and stable performance.

## 8. MAINTENANCE

- Keep the power supply and surrounding area free from dust. Use compressed air to gently clean the fan and vents periodically.
- Ensure adequate airflow around the power supply within the PC case.
- Avoid placing objects on top of the power supply or blocking its ventilation.

## 9. TROUBLESHOOTING

- **No Power:** Check all power connections, including the AC power cord, the internal power switch cable (if used), and the 24-pin ATX connector to the motherboard. Ensure the wall outlet is functional.
- **System Instability/Crashes:** Verify all modular cables are securely connected to both the power supply and the components. Ensure your system's power requirements do not exceed the PSU's capacity.
- **Fan Not Spinning:** The power supply features a fanless mode below 40% load. If the system load is low, the fan may not spin. If the system is under heavy load and the fan is still not spinning, ensure there are no obstructions and contact support if the issue persists.
- **Overheating:** Ensure proper case ventilation and that the power supply's fan and vents are not obstructed by dust or other components.

## 10. WARRANTY AND SUPPORT

The Lian Li SP0850P Platinum 850W SFX Power Supply comes with a **10-year warranty**, covering defects in materials and workmanship under normal use. For warranty claims or technical support, please visit the official Lian Li website or contact their customer service.

For further assistance, please refer to the official Lian Li website [www.lian-li.com](http://www.lian-li.com)