

ASUS ROG-LOKI-850P-SFX-L-WHITE-GAMING

ASUS ROG Loki SFX-L 850W Platinum White Edition Power Supply User Manual

Model: ROG-LOKI-850P-SFX-L-WHITE-GAMING

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1. PRODUCT OVERVIEW

The ASUS ROG Loki SFX-L 850W Platinum White Edition is a fully modular power supply unit (PSU) designed for small form factor (SFF) gaming PCs. It delivers 850 watts of stable power, featuring 80 PLUS Platinum efficiency for reduced heat and noise. This PSU is ATX 3.0 compatible and PCIe 5.0 ready, ensuring compatibility with modern high-performance graphics cards. It incorporates a 120mm PWM ARGB fan with Aura Sync support for customizable lighting and efficient cooling.



Image: Front view of the ASUS ROG Loki SFX-L 850W Platinum White Edition power supply.

2. SAFETY INFORMATION

Please read and follow these safety guidelines carefully to prevent damage to the product or injury to yourself.

- **Power Disconnection:** Always disconnect the power cord from the wall outlet before installing, removing, or cleaning the power supply.
- **Proper Grounding:** Ensure the power supply is properly grounded to prevent electrical shock.
- **Ventilation:** Do not block any ventilation openings on the power supply. Ensure adequate airflow around the unit.
- **Moisture and Liquids:** Keep the power supply away from water, moisture, and other liquids. Do not operate in high-humidity environments.
- **Voltage Compatibility:** Use only the power cord provided with the unit and ensure it is compatible with your region's voltage.

- **Professional Service:** Do not attempt to open or repair the power supply. Refer all servicing to qualified service personnel.
- **Cable Management:** Avoid bending cables excessively, especially the 16-pin PCIe 5.0 cable, to ensure full insertion and prevent damage.

3. PACKAGE CONTENTS

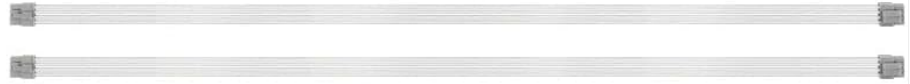
Verify that all items are present in your package:

- ASUS ROG Loki SFX-L 850W Platinum White Edition Power Supply Unit
- Modular Cable Set (including 16-pin PCIe 5.0 cable)
- AC Power Cord
- Mounting Screws
- Cable Ties/Velcro Straps
- User Manual and Documentation

Motherboard Power Cable x 1 (450mm)



CPU Cable x 2 (550mm)



PCIe Gen 5.0 16-pin Cable x 1 (450mm)



PCI-E 1-to-1 Cable x 1 (450mm)



PCI-E 1-to-2 Cable x 1 (450mm)



SATA 1-to-3 Cable x 2 (600mm)



Peripheral 1-to-4 Cable x 1 (600mm)



Addressable RGB Cable x 1 (800mm)



Image: Overview of the modular cables included with the power supply.

4. KEY FEATURES

- **ROG Heatsinks:** Integrated ROG heatsinks cover critical components, contributing to lower operating temperatures, extended lifespan, and reduced noise levels.
- **Axial-tech Cooling:** Features a 120mm PWM ARGB fan with Axial-tech design, optimized for improved

airflow and dispersion, ensuring efficient cooling with minimal noise.

- **ATX 3.0 & PCIe 5.0 Compatible:** Compliant with ATX 3.0 guidelines and includes a 16-pin PCIe cable capable of delivering up to 600W of power to PCIe Gen 5.0 graphics cards.
- **80 PLUS Platinum Certified:** Achieves up to 92% efficiency, resulting in lower heat generation, reduced power consumption, and enhanced reliability.
- **Lambda A Certification:** Certified for low noise levels, operating below 25 dB under typical loads.
- **Aura Sync:** Supports ASUS Aura Sync for customizable RGB lighting effects on the 120mm fan, allowing synchronization with other Aura-compatible components.

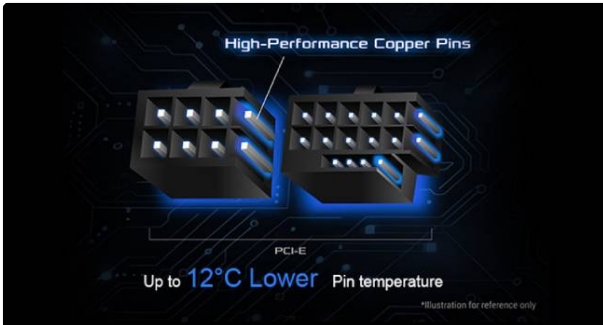


Image: ROG heatsinks for thermal management.



Image: Diagram illustrating Axial-tech fan design.

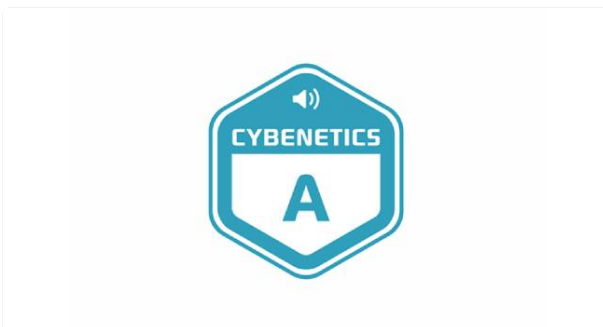


Image: High-performance copper pins in connectors.

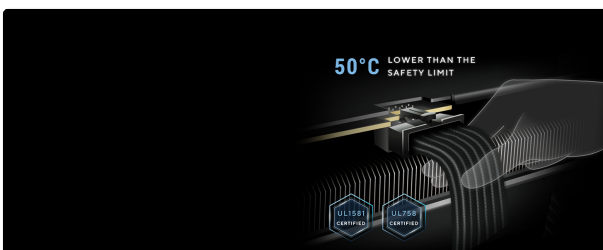


Image: ATX 3.1 Compatibility.

5. SETUP AND INSTALLATION

Follow these steps to install your ASUS ROG Loki SFX-L 850W Platinum White Edition power supply:

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your PC case to access the PSU mounting area.
2. **Remove Old PSU (if applicable):** Disconnect all cables from your old power supply and remove it from the case.
3. **Mount the New PSU:** Carefully place the ROG Loki SFX-L PSU into the designated SFX-L or ATX PSU bay. Use the provided mounting screws to secure it to the case. If installing in an ATX bay, use the included adapter plate.
4. **Connect Modular Cables:** Identify the necessary cables for your motherboard, CPU, graphics card(s), and storage devices. Connect the modular cables to the appropriate ports on the PSU first. Ensure the 16-pin PCIe 5.0 cable is fully inserted into your graphics card and the PSU. Avoid excessive bending of cables near the connectors.
5. **Connect to Components:** Route the cables neatly through your case and connect them to your motherboard (24-pin ATX, 8-pin EPS/CPU), graphics card(s) (PCIe), and storage devices (SATA, Peripheral).
6. **Power On:** Once all connections are secure, close your PC case. Plug the AC power cord into the PSU and then into a wall outlet. Flip the power switch on the back of the PSU to the 'ON' position.



Image: Close-up of the modular cable ports on the power supply.



Image: Rear panel of the power supply showing the power input and switch.

6. OPERATING INSTRUCTIONS

Operating the ASUS ROG Loki SFX-L 850W Platinum White Edition PSU is straightforward:

- **Power On/Off:** Use the main power switch located on the rear of the PSU to turn the unit on or off. Ensure the switch is in the 'ON' position before attempting to power on your computer.
- **ARGB Lighting:** The integrated ARGB fan supports ASUS Aura Sync. Connect the PSU's ARGB cable to a compatible motherboard header to control and synchronize lighting effects using ASUS Aura Sync software.
- **Fan Control:** The 120mm PWM fan automatically adjusts its speed based on the power supply's temperature and load, ensuring optimal cooling and quiet operation.

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Video: Official ASUS ROG Loki SFX-L Series overview, showcasing features like ARGB lighting and modularity.

7. 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. Always disconnect power before cleaning.
- **Airflow:** Ensure that the PSU's intake and exhaust vents are not obstructed. Maintain good airflow within your PC case to prevent heat buildup.
- **Cable Inspection:** Occasionally inspect all modular cables for any signs of wear, fraying, or damage.

Replace any damaged cables immediately.

8. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the AC power cord is securely connected to both the PSU and the wall outlet.
 - Verify the power switch on the back of the PSU is in the 'ON' position.
 - Check if the wall outlet is functioning by plugging in another device.
 - Confirm all modular cables are correctly and fully seated in both the PSU and the system components.
- **System Instability/Crashes:**
 - Ensure your system's power requirements do not exceed the PSU's 850W capacity.
 - Check for loose cable connections, especially to the motherboard and graphics card.
 - Monitor system temperatures to rule out overheating issues from other components.
- **Excessive Noise:**
 - Verify that the PSU fan is not obstructed by cables or dust.
 - Ensure the PSU is securely mounted to prevent vibrations.
 - If the noise persists and is unusual, contact ASUS support.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	ROG-LOKI-850P-SFX-L-WHITE-GAMING
Brand	ASUS
Compatible Devices	Desktop, Personal Computer
Connector Type	SFX
Output Wattage	850.0 W
Form Factor	ATX (with adapter), SFX-L
Cooling Method	Air (120mm PWM ARGB Fan)
Item Dimensions (L x W x H)	4.9 x 4.9 x 2.5 inches
Item Weight	4 Pounds
Power Supply Design	Full Modular

Feature	Specification
Number of Fans	1
Fan Size	124.46 Millimeters
Maximum Input Voltage	240 Volts
Minimum Input Voltage	90 Volts (AC)
System Bus Connector Type	16 Pin (PCIe 5.0)
UPC	195553722377
Efficiency Certification	80 PLUS Platinum
Noise Certification	Lambda A Certified (<25 dB)

10. WARRANTY AND SUPPORT

The ASUS ROG Loki SFX-L 850W Platinum White Edition power supply comes with the following warranty:

- **Core Product Operation Warranty:** 10 Years
- **RGB LED Warranty:** 3 Years

For technical support, troubleshooting assistance, or warranty claims, please visit the official ASUS support website or contact their customer service department. Keep your proof of purchase for warranty validation.

EU Spare Part Availability Duration: 10 Years