

## KOLINK KL-R850FG

# KOLINK Regulator Series 850W Power Supply Unit User Manual

Model: KL-R850FG

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your KOLINK Regulator Series 850W Power Supply Unit (PSU). Please read this manual thoroughly before installation and retain it for future reference. This PSU is designed to provide stable and reliable power to your computer system, adhering to ATX 3.0 and PCIe 5.0 standards.

### Safety Information

- Always disconnect the power cord from the wall outlet before installing, removing, or cleaning the PSU.
- Do not open the PSU casing. High voltages are present inside, which can cause electric shock.
- Ensure the PSU is installed in a well-ventilated area.
- Use only the modular cables provided with this PSU. Using incompatible cables may damage your system.
- This product is designed for indoor use only.

## 2. PACKAGE CONTENTS

Verify that all items listed below are present in your product packaging:

- KOLINK Regulator Series 850W Power Supply Unit
- Modular Cable Set (including 24-pin ATX, 4+4 pin CPU, 6+2 pin PCIe, 12VHPWR, SATA, and Peripheral cables)
- AC Power Cord
- Mounting Screws
- User Manual (this document)



*Image: A collection of all modular cables supplied with the Kolink Regulator PSU, including 24-pin ATX, CPU, PCIe, 12VHPWR, and SATA power cables.*

### 3. KEY FEATURES

The KOLINK Regulator Series 850W PSU incorporates advanced features for optimal performance and reliability:

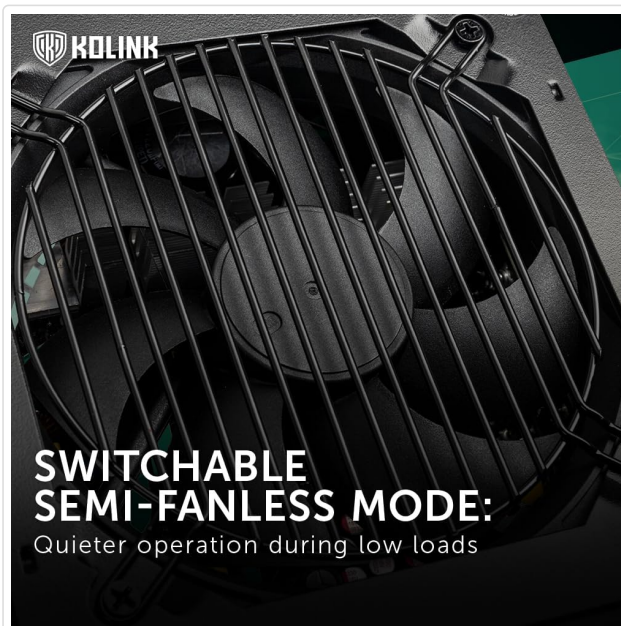
- **ATX 3.0 & PCIe 5.0 Ready:** Designed to meet the latest ATX 3.0 standard with native PCIe 5.0 support, including a 12VHPWR 600W cable for modern graphics cards.
- **80 PLUS Gold Certified:** Achieves up to 90% efficiency at half load, reducing energy consumption and heat generation.
- **Fully Modular Design:** Allows for custom cable management by connecting only the necessary cables, improving airflow and aesthetics.
- **100% Japanese Capacitors:** Utilizes high-quality Japanese capacitors for enhanced durability, stability, and long-term reliability.
- **Switchable Semi-Fanless Mode:** Features a 120mm Fluid Dynamic Bearing (FDB) fan that can operate in a

semi-fanless mode, reducing fan speeds or stopping the fan entirely at lower loads for quieter operation.

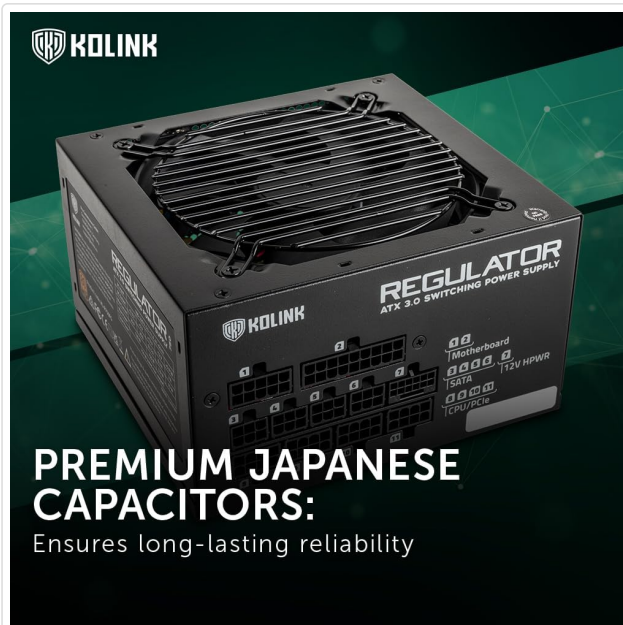
- **Multi-Protection Circuitry:** Integrated safeguards protect your components from over-voltage, under-voltage, over-power, short-circuit, and over-temperature conditions.
- **Compact Form Factor:** Designed to fit a wide range of PC cases with its optimized dimensions.



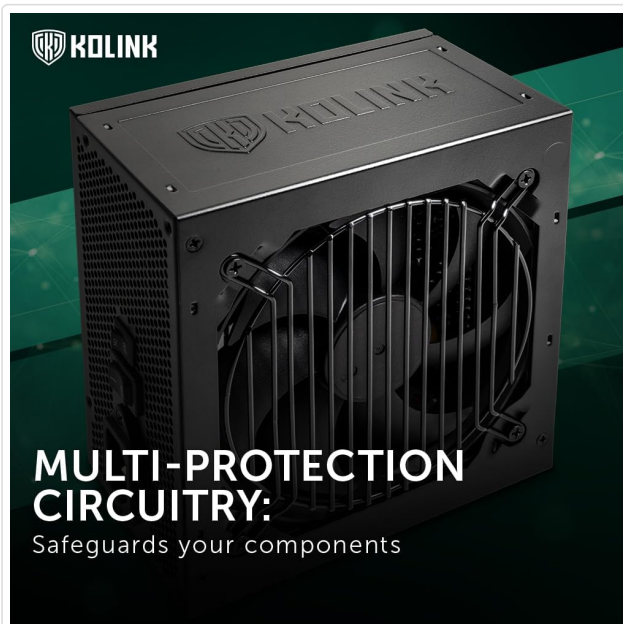
*Image: A close-up of the fully modular cable connection ports on the Kolink Regulator PSU, labeled for Motherboard, SATA, CPU/PCIe, and 12VHPWR.*



*Image: A detailed view of the 120mm Fluid Dynamic Bearing fan within the Kolink Regulator PSU, highlighting its switchable semi-fanless operation for quieter performance at low loads.*



*Image: An internal perspective of the Kolink Regulator PSU, emphasizing the high-quality 100% Japanese capacitors used for enhanced reliability and performance.*



*Image: The Kolink Regulator PSU, illustrating its robust multi-protection circuitry designed to safeguard connected components.*

## 4. SETUP AND INSTALLATION

### Pre-Installation Checklist

- Ensure your computer case is compatible with ATX PSUs.
- Verify that your motherboard and other components require 850W or less power.
- Gather necessary tools: screwdriver, zip ties (for cable management).

## Installation Steps

1. **Prepare Your System:** Disconnect the computer from the power outlet. Open your computer case to access the PSU mounting area. If replacing an old PSU, remove it first.
2. **Mount the PSU:** Carefully slide the KOLINK Regulator PSU into the designated PSU bay in your computer case. Ensure the fan is oriented correctly (typically facing downwards or inwards, depending on case design). Secure the PSU with the provided mounting screws from the rear of the case.
3. **Connect Modular Cables:** Identify the necessary cables for your components. Connect the modular cables to the corresponding ports on the PSU first, then route them to your components. Refer to the labels on the PSU for correct port identification.
  - **Motherboard Power:** Connect the 24-pin ATX cable to your motherboard.
  - **CPU Power:** Connect the 4+4 pin CPU cable(s) to your motherboard's CPU power connector(s).
  - **PCIe Power:** For graphics cards, use the 6+2 pin PCIe cables. For modern GPUs requiring 12VHPWR, use the dedicated 12VHPWR 600W cable. Ensure all connectors are fully seated.
  - **SATA Power:** Connect SATA power cables to your SSDs, HDDs, and optical drives.
  - **Peripheral Power:** Use peripheral (Molex) cables for any other components requiring them.
4. **Cable Management:** Route cables neatly to improve airflow and aesthetics. Use zip ties or cable straps to secure them.
5. **Close Case:** Once all connections are secure and verified, close your computer case.





*Image: An angled view of the Kolink Regulator 850W Power Supply Unit, showcasing its black casing and fan grille, ready for installation.*

## 5. OPERATING INSTRUCTIONS

1. **Connect AC Power:** Plug the provided AC power cord into the PSU's power inlet and then into a wall outlet or surge protector.
2. **Power On PSU:** Locate the power switch on the rear of the PSU (next to the AC inlet) and flip it to the 'I' (On) position.
3. **Power On Computer:** Press the power button on your computer case to start your system.

### Semi-Fanless Mode Operation

The KOLINK Regulator PSU features a semi-fanless mode. This means the 120mm FDB fan will remain off or spin at very low RPMs during low system loads to minimize noise. As the system load increases and the internal temperature rises, the fan will automatically activate and adjust its speed to maintain optimal cooling. This operation is normal and contributes to a quieter computing experience.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your PSU.

- **Keep Vents Clear:** Ensure that the PSU's intake and exhaust vents are not obstructed by dust, cables, or other objects. Good airflow is crucial for cooling.
- **Dust Cleaning:** Periodically clean dust from the PSU's exterior and fan grille using compressed air.**Do not open the PSU casing.**
- **Environmental Conditions:** Operate the PSU within recommended temperature and humidity ranges. Avoid extreme conditions.

## 7. TROUBLESHOOTING

If you encounter issues with your KOLINK Regulator PSU, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	PSU power switch off, AC cable loose, faulty wall outlet.	Ensure PSU switch is 'On'. Check AC power cable connection. Test wall outlet with another device. Verify all modular cables are securely connected.
System powers on but shuts down unexpectedly.	Overload, overheating, loose connections, component fault.	Ensure total system wattage does not exceed 850W. Check for proper airflow. Verify all modular cables are fully seated. If problem persists, test components individually.
PSU fan is not spinning.	Semi-fanless mode active, low system load.	This is normal operation in semi-fanless mode. The fan will activate under higher loads. If the fan never spins even under heavy load, contact support.
Unusual noise from PSU.	Loose screws, fan obstruction, coil whine.	Check PSU mounting screws. Ensure no cables or debris are obstructing the fan. Minor coil whine can be normal; if excessive, contact support.

If troubleshooting steps do not resolve the issue, please contact KOLINK customer support.

## 8. SPECIFICATIONS

Detailed technical specifications for the KOLINK Regulator Series 850W PSU:

Feature	Specification
Model Number	KL-R850FG
Output Wattage	850 Watts
Efficiency Rating	80 PLUS Gold
Form Factor	ATX
Power Supply Design	Fully Modular
Cooling Method	Air (120mm FDB fan with semi-fanless mode)
Capacitors	100% Japanese Capacitors
Connector Type	12VHPWR, 24-pin ATX, 4+4 pin CPU, 6+2 pin PCIe, SATA, Peripheral
Product Dimensions (L x W x H)	11.61 x 8.46 x 4.33 inches
Item Weight	5.5 pounds
Compatible Devices	Gaming PC with ATX motherboard and high-end graphics card





# 80 PLUS GOLD CERTIFIED:

Efficient power delivery, lower energy costs

Image: The rear panel of the Kolink Regulator PSU, displaying the electrical specifications label, power input, and on/off switch.

## 9. WARRANTY AND SUPPORT

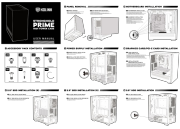
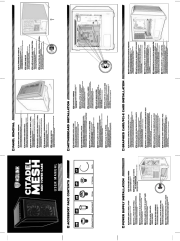


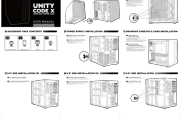
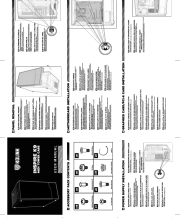
### Warranty Information

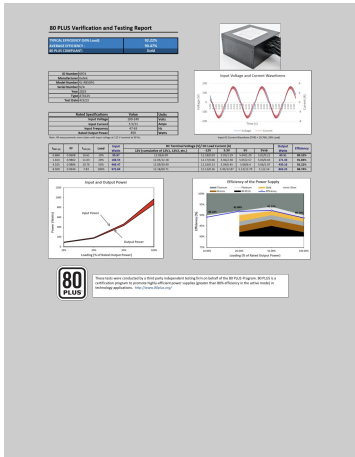
KOLINK products are manufactured to the highest quality standards. This PSU is covered by a manufacturer's warranty against defects in materials and workmanship. The specific warranty period may vary by region and retailer. Please retain your proof of purchase for warranty claims.

### Customer Support

For technical assistance, warranty inquiries, or further information, please visit the official KOLINK website or contact your local retailer. You can often find support resources, FAQs, and contact details on the manufacturer's website: [www.kolink.eu](http://www.kolink.eu)

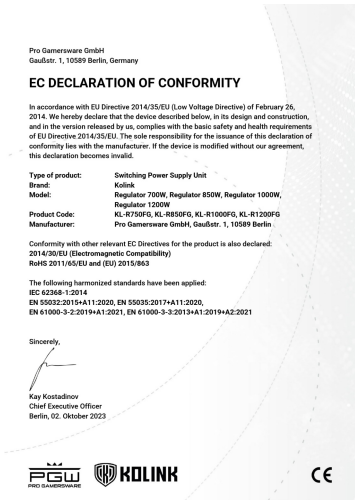
## Related Documents - KL-R850FG

	<p><a href="#">Kolink Stronghold Prime MIDI Tower Case User Manual   Installation Guide</a></p> <p>Comprehensive user manual for the Kolink Stronghold Prime MIDI Tower Case, detailing installation of motherboards, power supplies, graphics cards, storage drives, fans, and radiators.</p>
	<p><a href="#">Kolink Citadel Mesh Midi Tower Case User Manual and Installation Guide</a></p> <p>Comprehensive user manual and installation guide for the Kolink Citadel Mesh Midi Tower PC Case, detailing component installation steps for a seamless build.</p>
	<p><a href="#">Kolink Observatory Y ARGB MIDI Tower Case User Manual</a></p> <p>Comprehensive user manual for the Kolink Observatory Y ARGB MIDI Tower Case, detailing installation steps for components like motherboards, power supplies, graphics cards, SSDs, HDDs, fans, and radiators.</p>
	<p><a href="#">Kolink Unity Lateral ARGB PC Case User Manual</a></p> <p>Comprehensive user manual for the Kolink Unity Lateral ARGB ATX MIDI Tower PC Case, detailing installation steps for components, fans, and cooling.</p>
	<p><a href="#">Kolink Unity Code X ARGB MIDI Tower Case User Manual</a></p> <p>User manual for the Kolink Unity Code X ARGB MIDI Tower Case, detailing installation steps for components like power supply, motherboard, graphics card, SSDs, HDDs, fans, and radiators.</p>
	<p><a href="#">Kolink Inspire K9 Midi Tower Case User Manual and Installation Guide</a></p> <p>Comprehensive guide for installing components in the Kolink Inspire K9 Midi Tower PC case, covering panel removal, motherboard, PSU, GPU, storage, fans, and I/O connections.</p>



[pdf] Specifications Label

Peter Ostendorp Energy label Kolink Regulator 80 PLUS Gold 850W ATX 3 0 KL-R850FG Price Comparison Skinflint UK b44a684737cd0ebb1e6cedb8830aba9a02b2 gzhls at blob ldb a 5 9 b ||| 80 PLUS Verification and Testing Report TYPICAL EFFICIENCY 50 Load : AVERAGE EFFICIENCY : 80 PLUS COMPLIANT: 92.22 90.47 Gold ID Number 6974 Manufacturer Kolink Model Number **KL-R850FG** Serial Number N/A Year 2023 Type ATX12V Test Date 4/3/23 Input Voltage and Current Waveforms 200 8 100 4... lang:en score:41 filesize: 209.27 K page\_count: 1 document date: 2023-07-05



[pdf] Decleration of Conformity

Emmanuel Mends Download Declaration of Conformity REGULATOR SERIES kolink eu Kolink Regulator series onewebmedia PSU ||| Pro Gamersware GmbH Gaustr. 1, 10589 Berlin, Germany EC DECLARATION OF CONFORMITY In accordance wit ... ower Supply Unit Kolink Regulator 700W, Regulator 850W, Regulator 1000W, Regulator 1200W KL-R750FG, **KL-R850FG**, KL-R1000FG, KL-R1200FG Pro Gamersware GmbH, Gaustr. 1, 10589 Berlin Conformity with othe... lang:en score:33 filesize: 158.88 K page\_count: 1 document date: 2023-10-20



[pdf] Datasheet Dimension Guide Warranty

231020 KL Regulator Data Sheet Download Datasheet REGULATOR SERIES kolink eu 1 onewebmedia PSU ||| 3 YEAR WARRANTY SILENT DESIGN FLUID DYNAMIC BEARING FAN SWITCHABLE SEMI-FANLESS MODE ATX 3.0 PCI3 ... e compact design with 14 cm depth AC Input DC Output Max Current Max Power Total Power KL-R750FG **KL-R850FG** KL-R1000FG KL-R1200FG 100240 V, 5.511 A, 4763 Hz 100240 V, 5.511 A, 4763 Hz 100240 V,... lang:en score:23 filesize: 5.61 M page\_count: 2 document date: 2023-10-20