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› Apevia ATX-GX850W Galaxy 850W Power Supply User Manual

Apevia ATX-GX850W

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1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Apevia ATX-GX850W Galaxy 850W 80+ Gold Certified Semi-Modular Gaming Power Supply. Please read this manual thoroughly before installation and retain it for future reference.



Figure 1: Apevia ATX-GX850W Galaxy 850W Power Supply

The Apevia Galaxy 850W Power Supply is designed to deliver reliable and efficient power to your computer system. It features an 80+ Gold certification for high efficiency, a semi-modular cable design for improved cable management, and various protection mechanisms to safeguard your components.

2. SAFETY INFORMATION

- Always disconnect the power cord from the wall outlet before installing, removing, or cleaning the power supply.
- This power supply is designed for use in personal computers only. Do not use it for any other purpose.
- Do not open the power supply unit. High voltages are present inside, and opening the unit will void the warranty.
- Ensure proper grounding to prevent electrical shock.
- Keep the power supply away from moisture, extreme temperatures, and direct sunlight.
- Install the power supply in a well-ventilated area to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Apevia ATX-GX850W Galaxy 850W Power Supply Unit
- AC Power Cord
- Modular Cable Set (including 20/24pin Main Power, P8(4+4P) ESP 12V, 8(6+2)pin PCI-E, SATA, Peripheral, Floppy connectors)
- Mounting Screws
- User Manual (this document)



Figure 2: Power Supply Unit, Box, and Included Cables

4. PRODUCT FEATURES

- **850W 80+ Gold Certified:** Ensures high power efficiency (90%+ efficiency) at 20-100% load levels, reducing heat generation and electricity consumption.
- **Active PFC:** Power Factor Correction of 99% for stable power delivery.
- **Semi-Modular Design:** Allows connection of only necessary cables, improving airflow and cable management within the PC case.

- **Auto-Thermally Controlled 135mm Fan:** Features a quiet black fan that adjusts its speed based on the power supply's temperature, ensuring optimal cooling and reduced noise.
- **Heavy Duty Protections:** Includes Short-Circuit Protection (SCP), Over-Voltage Protection (OVP), Over-Power Protection (OPP), and Under-Voltage Protection (UVP) to safeguard your system components.
- **Double Forward Converter Design:** Enhances stability and efficiency.
- **Wide Compatibility:** Supports ATX 12V 2.3 Version, Dual/Quad Core CPUs, SLI/Crossfire configurations, and Haswell processors.
- **Large Japanese Capacitor:** Provides enhanced reliability and performance.
- **Single +12V Output:** Delivers strong, stable power for high-performance components.
- **Automatic Voltage Switching:** Automatically switches between 110V and 230V depending on the power grid.

5. INSTALLATION GUIDE

5.1 Pre-Installation Checklist

- Ensure your computer case is compatible with ATX form factor power supplies.
- Gather necessary tools: screwdriver, zip ties or cable management straps.
- Unplug your computer from the wall outlet and discharge any residual power by pressing the power button a few times.

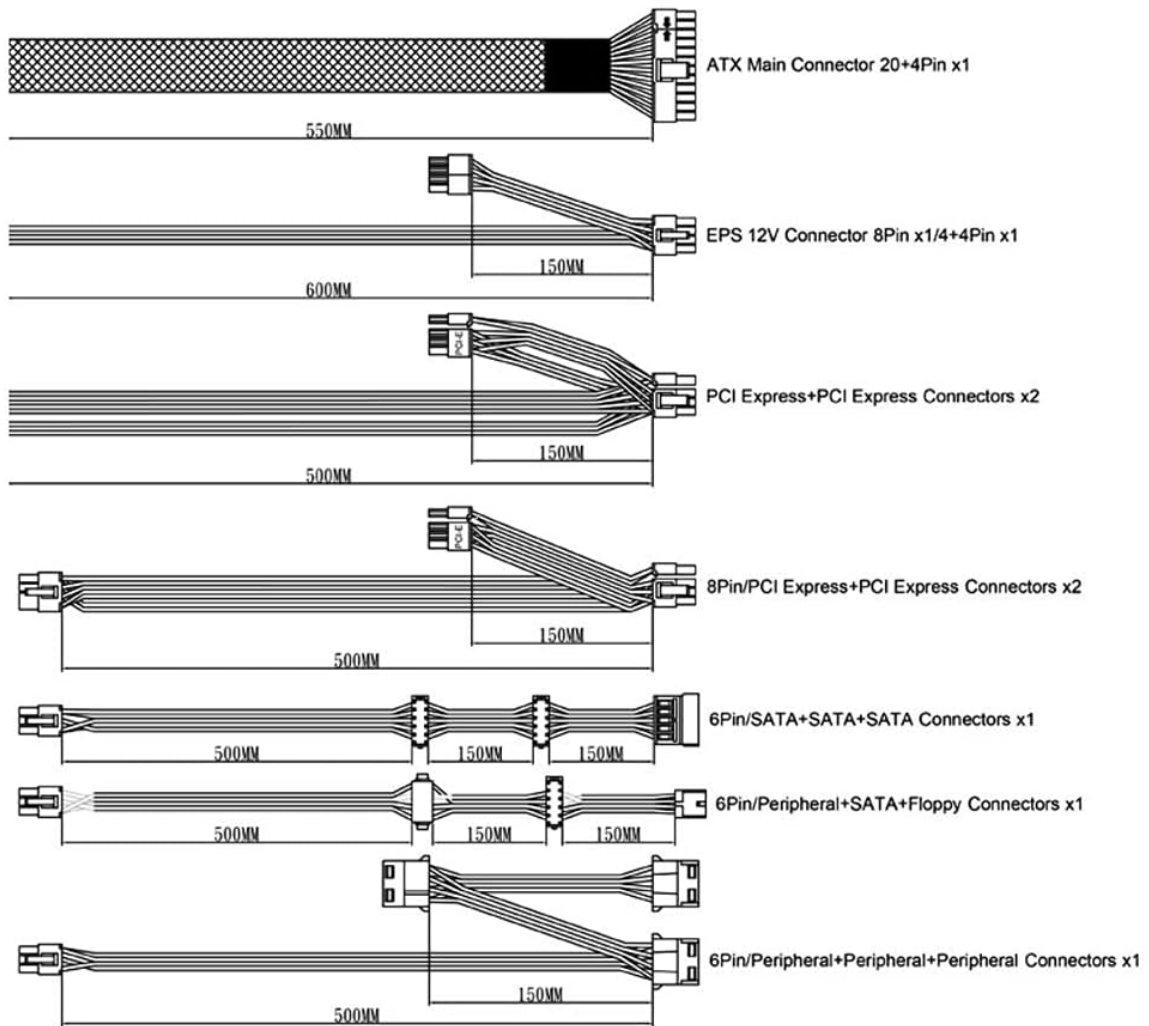
5.2 Physical Installation

1. Open your computer case.
2. Locate the power supply mounting bay, typically at the top or bottom rear of the case.
3. Carefully slide the Apevia ATX-GX850W into the bay, ensuring the fan is oriented correctly (usually facing downwards or inwards, depending on case design).
4. Secure the power supply to the case using the provided mounting screws.

5.3 Cable Connections

The Apevia ATX-GX850W is a semi-modular power supply. Connect only the cables required for your system components. Refer to your motherboard and component manuals for specific connection points.

Description of Connectors:



△ PEVIA

850W Galaxy Power

AC Input	100-240VAC, 10A / 5A, 50-60Hz				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	70.8A	0.3A	3A
Combined Power	100W		850W	3.6W	15W
Total Power	850W				

GALAXY850W

80
 PLUS
 GOLD

RoHS

Figure 3: Description of Connectors



Figure 4: Modular Cable Ports

1. **20/24-pin Main Power Connector:** Connect this to your motherboard. The 24-pin connector can be split into 20+4 pins for motherboards requiring a 20-pin connector.
2. **P8 (4+4P) EPS 12V Connector:** Connect this to your motherboard's CPU power input. The 8-pin connector can be split into 4+4 pins for motherboards requiring a 4-pin connector.
3. **8 (6+2)pin PCI-E Connectors:** Connect these to your graphics card(s). The 8-pin connector can be split into 6+2 pins for graphics cards requiring a 6-pin connector.
4. **SATA Connectors:** Connect these to SATA devices such as SSDs, HDDs, and optical drives.
5. **Peripheral (Molex) Connectors:** Used for older peripherals or case fans.
6. **Floppy Connector:** Used for legacy floppy drives or some fan controllers.

IMPORTANT: The power supply will not power on simply by connecting the power cord to both the power supply and wall outlet. Ensure that all the power supply cables are properly connected to the PC for it to power on.

5.4 Power Connection

1. Once all internal connections are made, close your computer case.
2. Connect the AC power cord to the power supply's input socket.
3. Plug the other end of the AC power cord into a grounded wall outlet.
4. Flip the power switch on the back of the power supply to the 'ON' position.



Figure 5: Power Supply Rear Panel with AC Input and Switch

6. OPERATING INSTRUCTIONS

After successful installation, you can power on your computer. The power supply's 135mm fan will automatically adjust its speed based on the internal temperature, providing efficient cooling while minimizing noise.

To power off your computer, use the operating system's shutdown function. For a complete power cycle, you can also switch off the power supply using the switch on its rear panel after the system has shut down.

7. MAINTENANCE

To ensure optimal performance and longevity of your power supply:

- **Cleaning:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup. Use compressed air to gently clear dust from the fan and vents. Ensure the power supply is disconnected from the wall outlet before cleaning.
- **Ventilation:** Ensure your PC case has adequate airflow and that the power supply's fan is not obstructed.
- **Cable Management:** Proper cable management not only improves aesthetics but also enhances airflow, contributing to better cooling for all components, including the PSU.

8. TROUBLESHOOTING

8.1 Power Supply Does Not Turn On

- **Check Power Cord:** Ensure the AC power cord is securely connected to both the power supply and a working wall outlet.
- **Power Switch:** Verify that the power switch on the back of the power supply is in the 'ON' position.
- **Internal Connections:** Double-check all modular cables are firmly connected to both the power supply and your computer components (motherboard, CPU, GPU, drives). A loose connection can prevent the system from powering on.
- **Motherboard Stand-offs:** Ensure your motherboard is correctly installed with stand-offs to prevent short circuits.
- **Faulty Components:** If the issue persists, try testing the power supply with a known working system or consult a qualified technician.

8.2 Excessive Fan Noise

- **Dust Buildup:** Clean the power supply fan and vents as described in the Maintenance section.
- **Overload:** Ensure your system's power requirements do not exceed the 850W capacity of the power supply. High loads can cause the fan to spin faster.
- **Obstruction:** Check for any cables or objects obstructing the fan's rotation.

9. SPECIFICATIONS

Feature	Specification
Model Name	Galaxy
Brand	Apevia
Compatible Devices	Personal Computer
Connector Type	ATX, Floppy, PCI-E, SATA
Output Wattage	850 Watts
Form Factor	ATX
Cooling Method	Air (135mm fan)
Item Dimensions (L x W x H)	6.2 x 5.9 x 3.4 inches
Item Weight	4.6 Pounds
Power Supply Design	Semi-Modular
Number of Fans	1
Maximum Input Voltage	230 Volts
Minimum Input Voltage	110 Volts
System Bus Connector Type	24 Pin
UPC	810047130796
Mfr Part Number	ATX-GX850W

Output Table:

Output	Current
+3.3V	20A
+5V	20A
+12V	66A
-12V	0.3A
+5Vsb	3A

10. WARRANTY INFORMATION

The Apevia ATX-GX850W Galaxy 850W 80+ Gold Certified Power Supply typically comes with a 3-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Apevia website or contact their customer support.

11. SUPPORT

For further assistance, technical support, or to view other Apevia products, please visit the official Apevia store:

Apevia Official Store