

GAMEMAX RGB850

GAMEMAX RGB850 850W 80 Plus Gold Power Supply User Manual

Model: RGB850-WHITE

1. INTRODUCTION

Thank you for choosing the GAMEMAX RGB850 850W 80 Plus Gold Power Supply. This manual provides essential information for the proper installation, operation, and maintenance of your power supply unit (PSU). Please read this manual thoroughly before installation to ensure safe and efficient use.

1.1 Safety Information

- Always disconnect the AC power cord from the wall outlet before installing or removing the PSU or any other components.
- Do not open the PSU casing. High voltages are present inside, and opening the unit will void the warranty.
- Ensure the PSU is installed in a well-ventilated area.
- Use only the modular cables provided with this power supply. Using incompatible cables may damage the PSU and connected components.
- This product is designed for use in computer systems only.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- GAMEMAX RGB850 850W 80 Plus Gold Power Supply
- Modular Cable Set (various types for motherboard, CPU, PCIe, SATA, PATA/FDD, ARGB SYNC)
- AC Power Cord
- Mounting Screws
- User Manual

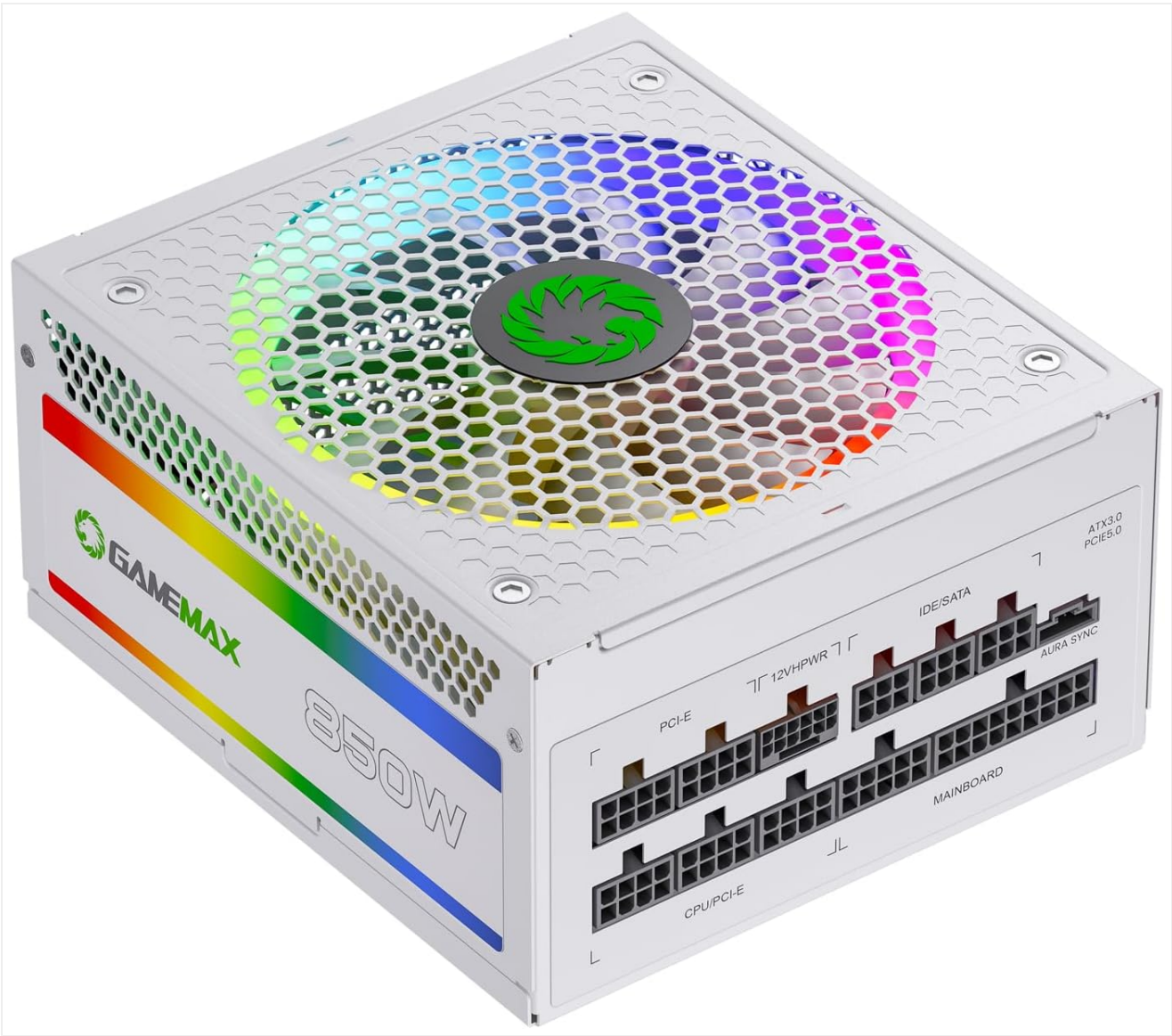


Image: The GAMEMAX RGB850 850W Power Supply, showcasing its white chassis and RGB fan, as typically found in its retail packaging.

3. KEY FEATURES

The GAMEMAX RGB850 Power Supply offers advanced features for reliable and efficient performance:

- **80 Plus Gold Certified:** Delivers 90% or higher efficiency under typical loads, reducing heat and energy consumption.
- **ATX 3.0 & PCIe 5.0 Ready:** Supports up to 200% total power excursion and 300% GPU power excursion, ensuring compatibility with high-performance NVIDIA 40 series graphics cards.
- **100% Japanese Capacitors:** Utilizes premium Japanese capacitors for enhanced reliability and stable output with 5V/3.3V DC-DC conversion.
- **ARGB SYNC:** Integrated ARGB lighting effects can be synchronized with compatible motherboard A-RGB software.
- **Whisper-Quiet Fan:** Equipped with a 140mm ultra-quiet fan for efficient heat dissipation with minimal noise.
- **Fully Modular Design:** Allows for clean cable management by connecting only the necessary cables.



Image: An overview of the GAMEMAX RGB850 Power Supply highlighting its 80 Plus Gold certification, 100% Japanese capacitors, ARGB Addressable lighting, ATX 3.0 compatibility, 12VHPWR connector, and DC-DC conversion.

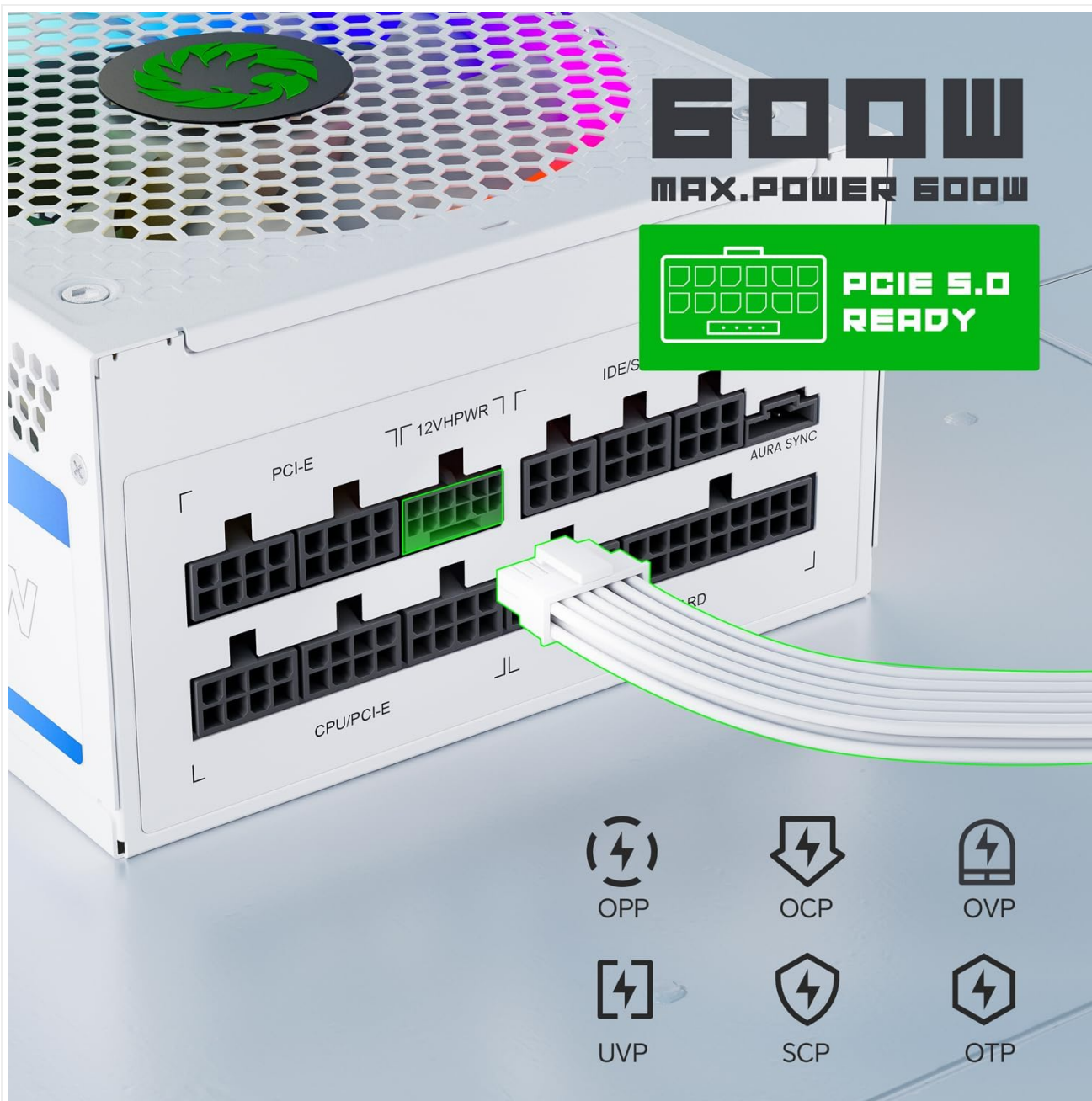


Image: A close-up of the GAMEMAX RGB850 Power Supply's modular connectors, emphasizing its PCIe 5.0 readiness and various protection mechanisms (OPP, OCP, OVP, UVP, SCP, OTP).

A-RGB SYNC

Compatible with A-RGB software of most mainstream motherboards



Image: A detailed view of a 100% Japanese capacitor, illustrating the high-quality components used for durability and stability within the power supply.

**100%
JAPANESE
CAPACITORS**

**PROVIDING GREAT DURABILITY AS WELL AS
OFFERING THE HIGHEST STABILITY**

Image: The GAMEMAX RGB850 Power Supply positioned next to a PC case, demonstrating its ARGB SYNC compatibility with major motherboard brands like ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, and ASRock Polychrome RGB.



Image: A close-up of the 140mm fan of the GAMEMAX RGB850 Power Supply, highlighting its features: PWM temperature control, quiet operation, 50,000 hours lifespan, hydraulic bearing, and large air volume from 9 blades.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checklist

- Ensure your computer case is compatible with ATX form factor power supplies.
- Gather all necessary tools, including a screwdriver.
- Unplug the computer from the wall outlet and discharge any residual power by pressing the power button for a few seconds.

4.2 Physical Installation

1. Open your computer case according to its manufacturer's instructions.
2. Locate the PSU mounting area, typically at the bottom or top rear of the case.
3. Carefully slide the GAMEMAX RGB850 PSU into the designated slot.

- Secure the PSU to the case using the provided mounting screws.

4.3 Modular Cable Connections

Connect only the cables required for your system components. This improves airflow and cable management.

- **Mainboard:** Connect the 24-pin ATX cable to the mainboard connector on the PSU and your motherboard.
- **CPU:** Connect the ATX 12V (4+4-pin) cable(s) to the CPU connector(s) on the PSU and your motherboard.
- **GPU (PCIe):** Connect the PCIe (6+2-pin) cable(s) or the 12VHPWR cable (for compatible GPUs) to the PSU and your graphics card(s).
- **Storage (SATA/PATA):** Connect SATA (4 in 1) or PATA/FDD cables as needed for your hard drives, SSDs, and optical drives.
- **ARGB SYNC:** Connect the ARGB SYNC cable from the PSU to a compatible 3-pin 5V ARGB header on your motherboard for synchronized lighting control.

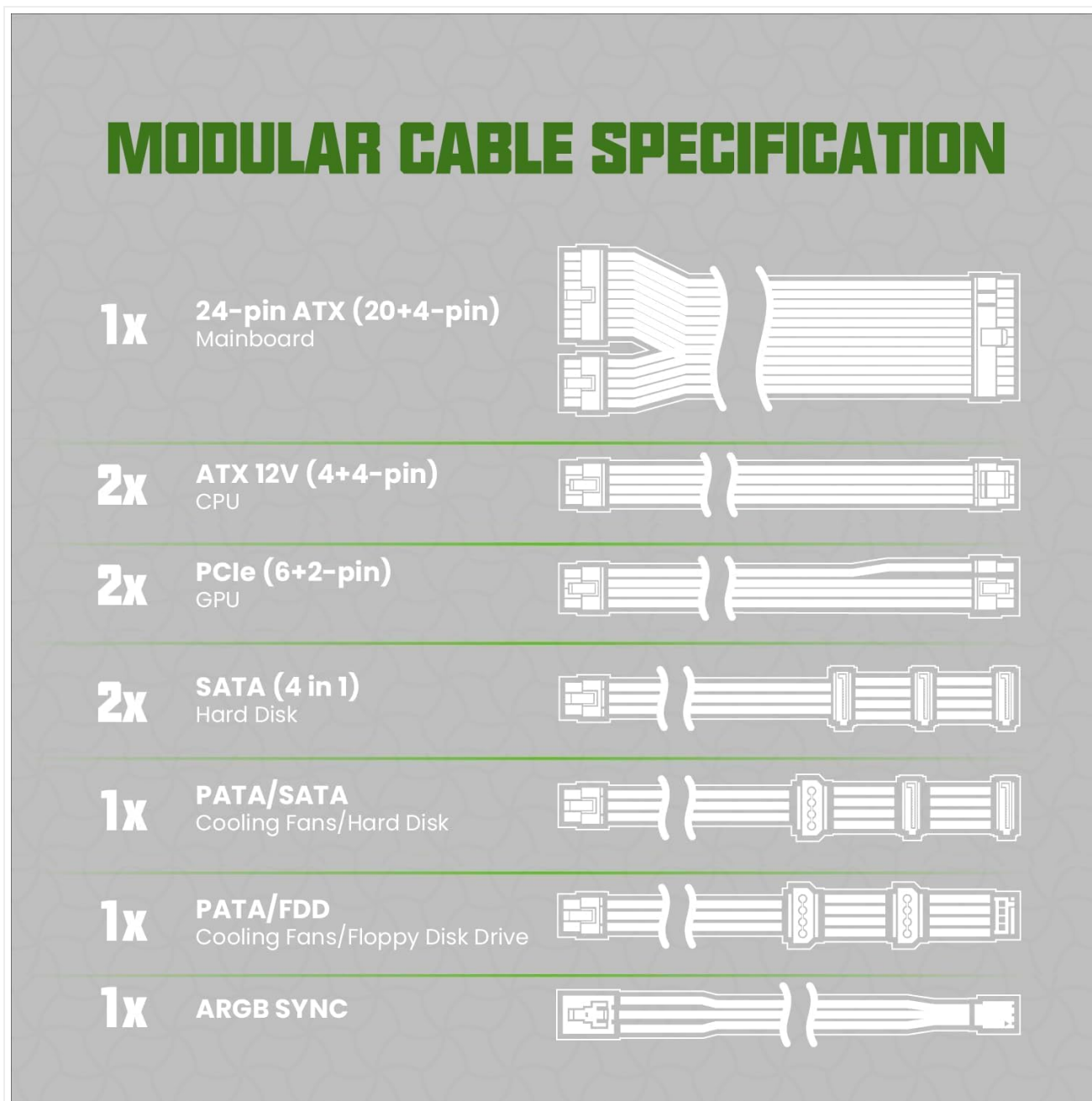


Image: A diagram illustrating the various modular cable types and quantities included with the GAMEMAX RGB850 Power Supply, including 24-pin ATX, ATX 12V (4+4-pin), PCIe (6+2-pin), SATA, PATA/FDD, and ARGB SYNC cables.

4.4 Initial Power-Up

1. Double-check all cable connections to ensure they are secure.
2. Connect the AC power cord to the PSU and then to a wall outlet.
3. Flip the power switch on the back of the PSU to the 'ON' position.
4. Power on your computer.

5. OPERATION

5.1 Basic Operation

Once installed and connected, the GAMEMAX RGB850 Power Supply will provide stable power to your system. The 140mm fan operates quietly, adjusting its speed based on load to maintain optimal temperatures.

5.2 ARGB Lighting Control

The integrated ARGB lighting can be controlled via your motherboard's A-RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome RGB). Refer to your motherboard manual for specific instructions on controlling ARGB devices.

6. MAINTENANCE

To ensure the longevity and optimal performance of your GAMEMAX RGB850 Power Supply, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the fan and ventilation grilles to prevent dust buildup. Use compressed air to gently remove dust. Ensure the PSU is powered off and unplugged before cleaning.
- **Environment:** Operate the PSU in a clean, dry, and well-ventilated environment. Avoid extreme temperatures and humidity.
- **Cable Management:** Ensure cables are neatly routed and do not obstruct airflow within the computer case.

7. TROUBLESHOOTING

If you encounter issues with your GAMEMAX RGB850 Power Supply, refer to the following common problems and solutions:

- **No Power:**
 - Check if the AC power cord is securely connected to both the PSU and the wall outlet.
 - Ensure the power switch on the back of the PSU is in the 'ON' position.
 - Verify that the 24-pin ATX and ATX 12V (CPU) cables are correctly connected to the motherboard.
 - Test the wall outlet with another device to confirm it has power.
- **System Instability/Crashes:**
 - Ensure all modular cables are fully seated into both the PSU and the components.
 - Confirm that your system's power requirements do not exceed the PSU's 850W capacity.
 - Check for proper ventilation within the case to prevent overheating.
- **Fan Noise:**
 - A certain level of fan noise is normal under heavy load.
 - If the noise is excessive or unusual, ensure the fan is free from obstructions and dust.

- If the noise persists and is abnormal, contact customer support.
- **ARGB Lighting Not Working:**
 - Verify the ARGB SYNC cable is correctly connected to a compatible 3-pin 5V ARGB header on your motherboard.
 - Ensure your motherboard's ARGB software is installed and configured correctly.

If these steps do not resolve the issue, please contact GAMEMAX customer support for further assistance.

8. SPECIFICATIONS

Below are the technical specifications for the GAMEMAX RGB850 850W 80 Plus Gold Power Supply:

Specification	Value
Brand	GAMEMAX
Model	RGB850-WHITE
Wattage	850W
Efficiency Certification	80 Plus Gold
ATX Standard	ATX 3.0
PCIe Standard	PCIe 5.0 Ready
Capacitors	100% Japanese Capacitors
Modularity	Full Modular
Cooling Method	Air (140mm fan)
Form Factor	ATX
Product Dimensions (L x W x H)	11.41 x 10.28 x 5.24 inches
Item Weight	6.3 pounds (2.86 Kilograms)
Compatible Devices	Gaming PC
Date First Available	October 20, 2023

9. WARRANTY AND SUPPORT







9.1 Warranty Information

The GAMEMAX RGB850 Power Supply comes with a **5-year warranty**, providing peace of mind regarding its long-lasting reliability. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty inquiries, or any other questions regarding your GAMEMAX product, please visit the official GAMEMAX website or contact their customer support channels. Refer to the product packaging or the GAMEMAX website for the most current contact information.

Related Documents - RGB850

	<p>GameMax RGB-850 SE 850W 80 Plus Gold Power Supply User Manual</p> <p>Detailed user manual for the GameMax RGB-850 SE 850W 80 Plus Gold fully modular power supply, covering product introduction, features, safety instructions, installation, specifications, and cable overview.</p>
	<p>GAMEMAX RGB ATX Power Supply User Manual - Models RGB-750, RGB-850, RGB-1050</p> <p>User manual for GAMEMAX RGB ATX Power Supply series, detailing product introduction, features, specifications, protection mechanisms, environmental requirements, connector pin descriptions, cable configurations, and safety instructions. Covers models RGB-750, RGB-850, and RGB-1050 with 80 PLUS Gold certification.</p>
	<p>GameMax GX RAMPAGE Series Power Supply User Manual</p> <p>User manual for the GameMax GX RAMPAGE Series power supply, detailing features, installation, specifications, safety, and cable configurations. Supports ATX 12V V3.0/3.1 and PCIe 5.0/5.1.</p>
	<p>GameMax RGB SMART Power Supply User Manual</p> <p>This user manual provides comprehensive information on the GameMax RGB SMART power supply, detailing its features, installation, and specifications. It highlights the product's 80 Plus Gold efficiency, customizable RGB lighting, fully modular design, and support for the latest PCIe 5.0/5.1 GPUs, making it an ideal choice for gamers and system builders.</p>
	<p>GameMax RGB PRO 80 PLUS Power Supply User Manual</p> <p>Comprehensive user manual for the GameMax RGB PRO series 80 PLUS power supplies, covering safety, specifications, installation, connectors, and cable management for models like 1300P, 1050G, 850G, and 750G.</p>
	<p>GameMax GX Series Power Supply User Manual</p> <p>User manual for the GameMax GX Series power supplies, detailing product introduction, features, safety reminders, installation instructions, specifications, and cable configurations. Available in modular and normal versions, featuring 80 Plus Gold certification.</p>