



[Manuals.plus](#) /

> [Auotac](#) /

> Auotac 850W Fully Modular Power Supply User Manual

Auotac S-850MZ 850A-GR

Auotac 850W Fully Modular Power Supply User Manual

Model: S-850MZ 850A-GR | Brand: Auotac

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Auotac 850W Fully Modular Power Supply. This power supply unit (PSU) is designed to deliver stable and efficient power to your PC components, featuring 80 PLUS Gold certification, ATX 3.1 & PCIe 5.1 compliance, and a low-noise RGB fan.



Image: Auotac 850W Fully Modular Power Supply, showcasing its white casing and vibrant RGB fan.

2. SAFETY INFORMATION

Please read and follow these safety guidelines carefully to prevent injury or damage to your equipment:


- Ensure the power supply is disconnected from the main power outlet before installation or maintenance.
- Do not open the PSU casing. High voltages are present inside, even when disconnected.
- Install the PSU in a well-ventilated area, away from heat sources and moisture.
- Use only the modular cables provided with this power supply. Using incompatible cables can cause damage.
- Ensure all cable connections are secure before powering on the system.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Auotac 850W Fully Modular Power Supply Unit

- Modular Cable Set (including 24-pin Motherboard, 4+4-pin CPU, 12V-2x6 PCIe 5.1, 6+2-pin PCIe, SATA, 4-pin Molex)
- AC Power Cord
- PSU Tester
- Cable Management Combs
- Cable Ties
- Mounting Screws
- ARGB Light Cable



FULLY MODULAR DRAGON-PATTERNED **SOFT CABLES**









	<p>24P Motherboard (Total Length: 23.6in)</p> <p>24-pin configuration supports latest ATX PC.</p>
	<p>4+4P CPU +12V, in combined mode (Total Length: 25.6in)</p> <p>8-pin configuration supports dual CPU server/workstation systems and some single CPU PC systems.</p>
	<p>4+4P CPU +12V, in split mode (Total Length: 25.6in)</p> <p>4-pin configuration supports most ATX/BTX systems.</p>
	<p>12V-2 x6 (Total Length: 23.6in)</p> <p>12+4 pin configuration supports high-end graphic cards, which require 12VHPWR connector. (Only available on 700W and over 700W models)</p>
	<p>6+2P(8P) PCIe, in combined mode (Total Length: 25.6in)</p> <p>8-pin configuration supports performance graphic cards, which require 8-pin PCIe connector.</p>
	<p>6+2P(8P) PCIe, in split mode (Total Length: 25.6in)</p> <p>6-pin configuration supports entry-level graphic cards, which require 6-pin PCIe connector.</p>
	<p>SATA (Total Length: 35.4in)</p> <p>For SATA drives.</p>
	<p>4P Molex (Total Length: 31.5in)</p> <p>For devices with traditional 4P power in socket.</p>

Image: Overview of the modular cables and their respective lengths included with the power supply.

4. SETUP AND INSTALLATION

Follow these steps to install your power supply:

4.1 Physical Installation

1. Ensure your PC case is compatible with ATX power supplies. The Auotac 850W PSU has dimensions of

150mm (L) x 150mm (W) x 86mm (H).

2. Mount the PSU into the designated PSU bay in your PC case using the provided mounting screws.

4.2 Modular Cable Connections

The fully modular design allows you to connect only the necessary cables, improving airflow and cable management.

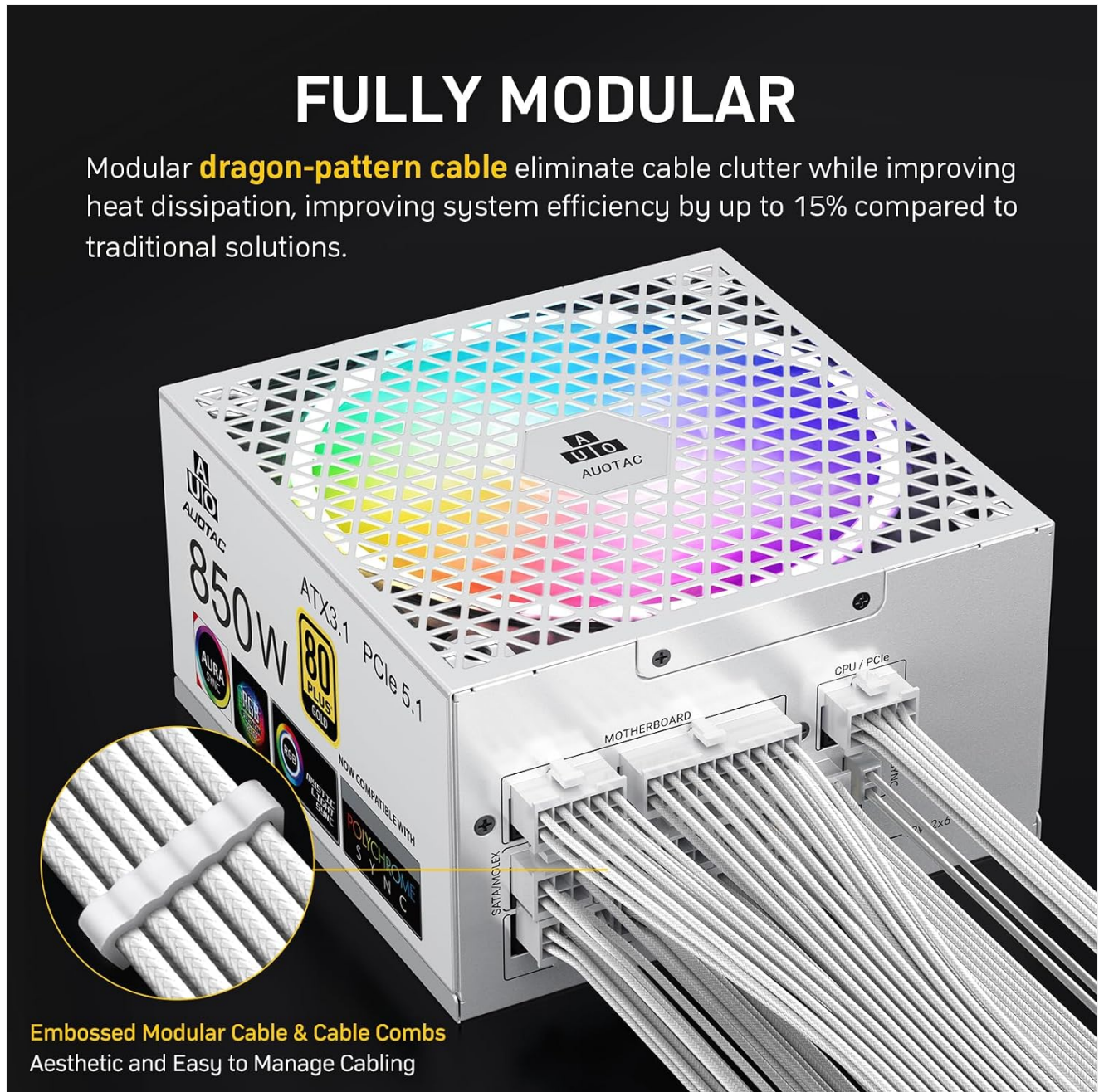


Image: Fully modular power supply with organized cables using cable combs.

1. Identify the required cables for your motherboard, CPU, graphics card(s), and storage devices.
2. Connect the appropriate modular cables to the corresponding ports on the PSU. Refer to the labels on the PSU for correct placement (e.g., Motherboard, CPU/PCIe, SATA/Molex).
3. Connect the other end of each cable to your PC components.
4. **12V-2x6 PCIe 5.1 Cable:** For modern high-end graphics cards, use the dual-color 12V-2x6 cable. The yellow connector is designed to indicate proper seating. Ensure it is fully inserted until the yellow portion is no longer visible, confirming a secure connection.

DUAL-COLOUR 16-PIN CABLE

The Dual-color dragon-pattern 12V-2x6 PCI-E 5.1 cable for modern high-end graphics cards.

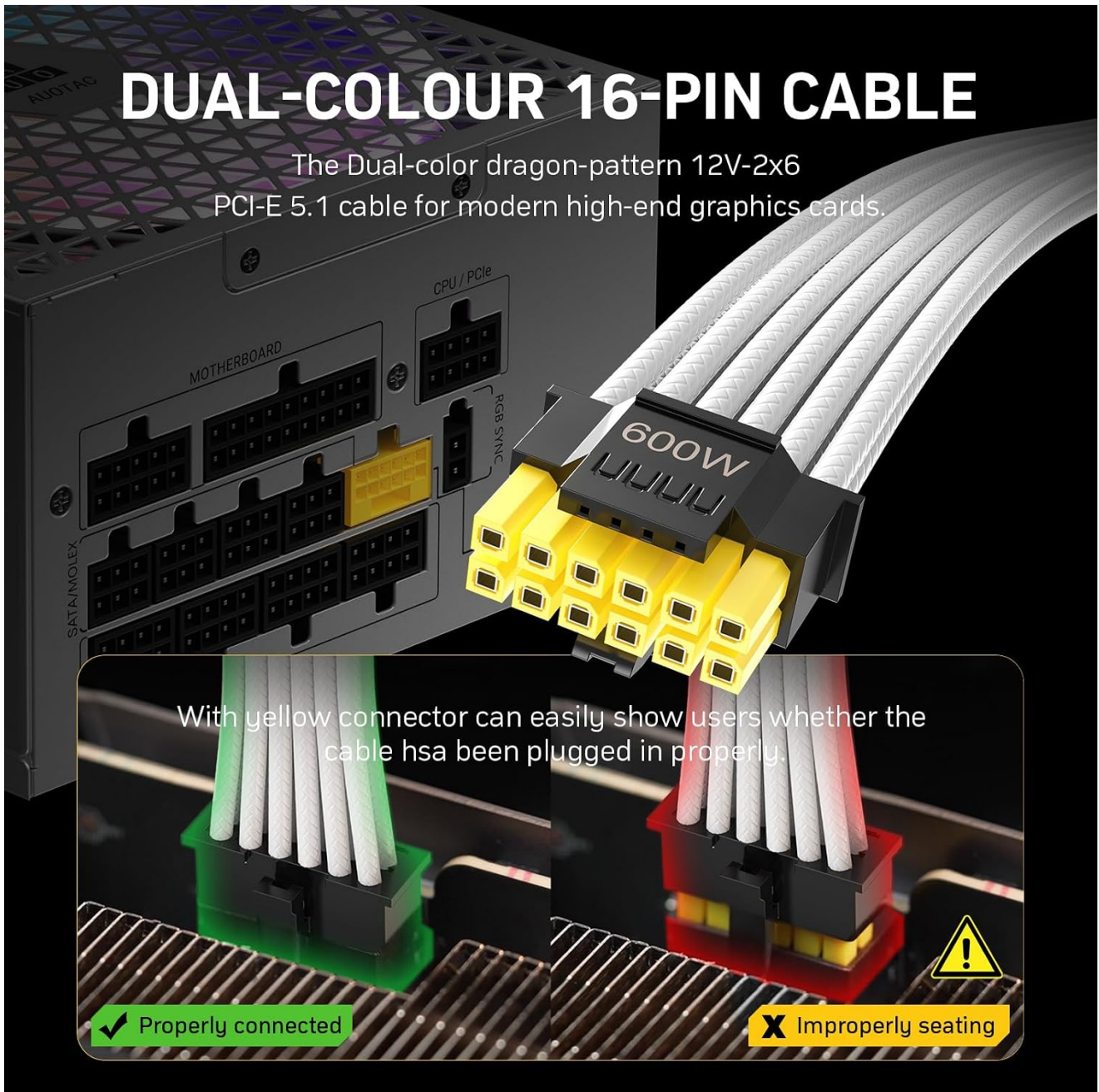


Image: Illustration of the dual-color 12V-2x6 cable, highlighting the yellow connector for proper connection verification.

4.3 Using the PSU Tester

The included PSU tester allows you to verify the power supply's functionality before connecting it to your motherboard.

1. Connect the 24-pin main power cable from the PSU to the PSU tester.
2. Plug the AC power cord into the PSU and a wall outlet.
3. Turn on the PSU using the main power switch. The tester will indicate if the PSU is functioning correctly.
4. Disconnect the PSU from power and the tester once testing is complete.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

After all components are connected, plug the AC power cord into the PSU and a wall outlet. Use the main power switch on the back of the PSU to turn the unit on or off.

5.2 Silent Mode and RGB Lighting Control

The PSU features a 140mm low-noise fan with a silent mode and adjustable RGB lighting. Control switches are located on the back of the unit.

ADD LOW-NOISE FAN & RGB LIGHTING CONTROL SWITCHES

The concept of energy conservation and environmental protection has been integrated into the product design. Turn on the PSU, then choose between silent mode and adjustable RGB lighting based on your needs. (Under high load conditions, the silent mode will be automatically disabled, and the super-strong cooling function will be activated.)



Image: Rear panel of the PSU, indicating switches for Silent Mode and RGB Lighting control.

- **Silent Mode:** Toggle the switch to activate or deactivate silent mode. In silent mode, the fan operates at a lower RPM for reduced noise. Under high load conditions, the silent mode may automatically disable, and the fan speed will increase for optimal cooling.
- **RGB Lighting:** Use the RGB lighting switch to cycle through various lighting effects or turn the RGB off.
- **A-RGB Sync:** The PSU is compatible with A-RGB software from most mainstream motherboards. Connect the included ARGB light cable to your motherboard's 5V 3-pin ARGB header to synchronize lighting effects with your system.

A-RGB SYNC

Compatible with A-RGB software of most mainstream motherboards.



Image: Example of A-RGB synchronization with other PC components.

AUOTAC 140mm LOW-NOISE FAN

The 140mm low-noise fan outperforms standard 120mm fans in quietness, cooling, and durability, making it ideal for users pursuing silent yet high-efficiency performance.

The diagram compares two fans. On the left is the AUOTAC 140mm low-noise fan, shown with blue airflow lines. On the right is a standard 120mm fan, shown with white airflow lines. A central 'VS' graphic separates them. The 140mm fan side lists benefits: 'LOW-NOISE' (with a crossed-out speaker icon), 'Airflow increased by 75%' (with a fan icon) and 'Cybenetics certification <20dBA', and 'Increase service life 120%' (with a circular arrow icon). A yellow banner at the bottom left says 'Our High-quality fan' with a checkmark icon. The 120mm fan side lists drawbacks: 'Noisy' (with a speaker icon), 'Insufficient Fan Airflow' (with a fan icon and wavy lines), and 'Short service life' (with a circular arrow icon and a crossed-out 'X'). A grey banner at the bottom right says 'Others small fan' with a crossed-out 'X' icon. A dimension line above the 120mm fan indicates its size.

VS

120mm

LOW-NOISE

Airflow increased by **75%**
Cybenetics certification <20dBA

Increase service life **120%**

Our High-quality fan

Noisy

Insufficient Fan Airflow

Short service life

Others small fan

Image: Diagram illustrating the benefits of the 140mm low-noise fan compared to a standard 120mm fan.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your power supply.

- **Cleaning:** Periodically clean the exterior of the PSU and its fan grille to prevent dust buildup. Use compressed air to gently remove dust from the fan blades and internal components. Ensure the PSU is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed and not obstructing airflow within the PC case. Use the provided cable combs and ties for organization.

7. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

- **No Power:**
 - Check if the AC power cord is securely plugged into both the PSU and the wall outlet.

- Ensure the main power switch on the PSU is in the 'ON' position.
- Verify all modular cables are correctly and securely connected to both the PSU and the components. Pay special attention to the 24-pin motherboard and CPU power connectors.
- Use the included PSU tester to confirm the power supply itself is functional.

- **System Instability/Crashes:**

- Ensure your system's power requirements do not exceed the PSU's 850W capacity.
- Check for loose cable connections, especially the 12V-2x6 PCIe cable for graphics cards. The yellow connector should be fully seated.
- Verify that your wall outlet is providing stable power.

- **Fan Noise:**

- Ensure silent mode is activated if you prefer quieter operation (note: it may disable under high load).
- Clean any dust buildup from the fan and grille.

If problems persist after following these steps, please contact Auotac customer support.

8. SPECIFICATIONS

Feature	Detail
Model Name	S-850MZ 850A-GR
Brand	Auotac
Output Wattage	850 Watts
Efficiency Certification	80 PLUS Gold (92% efficiency)
Form Factor	ATX
Dimensions (L x W x H)	150mm x 150mm x 86mm (5.91 x 5.91 x 3.39 inches)
Cooling Method	Air (140mm Low-Noise Fan)
Power Supply Design	Fully Modular
ATX Standard	ATX 3.1 & PCIe 5.1 Ready
Capacitors	100% Japanese-made 105°C Electrolytic Capacitors
Minimum Input Voltage	100 Volts (AC)
Maximum Input Voltage	240 Volts (AC)
Frequency	47-63Hz
System Bus Connector Type	20+4 Pin
UPC	746205393034

8.1 DC Output Table

+3.3V	+5V	+12V	-12V	+5VSB
-------	-----	------	------	-------

+3.3V	+5V	+12V	-12V	+5VSB
20A	20A	70.5A	0.3A	3.0A
		846W	3.6W	15W
Combined Power: ≤130W (+3.3V & +5V) Total Output: 850W				

SUPPORT ATX 3.1 & PCIE 5.1

Compliant with ATX 3.1 and PCIe 5.1, it provides reliable power for top-performance PCs. Compatible with the vast majority of graphics cards on the market.

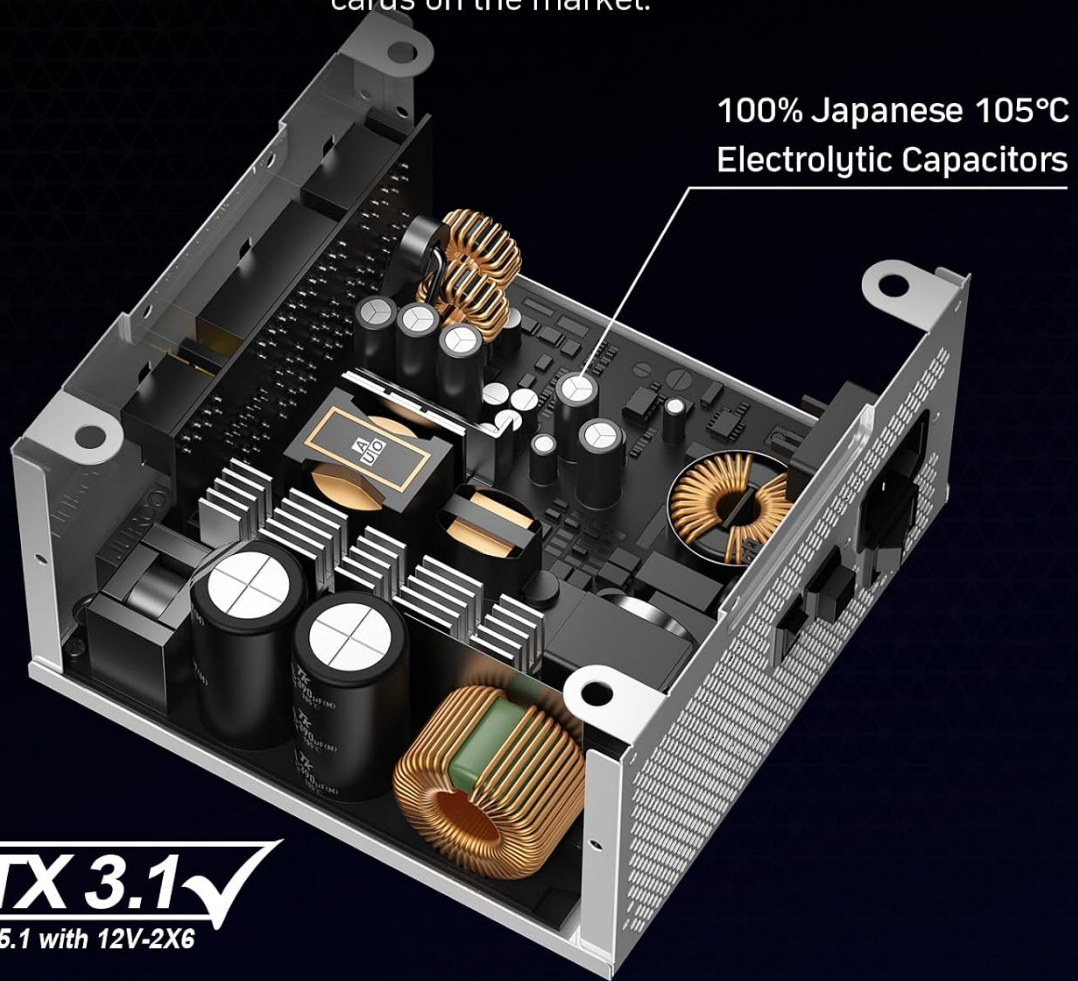


Image: Internal components of the PSU, emphasizing the high-quality Japanese capacitors.

9. WARRANTY INFORMATION

The Auotac 850W Fully Modular Power Supply comes with a **10-Year Limited Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official Auotac website or contact customer support.

10. CUSTOMER SUPPORT

For technical assistance, warranty claims, or any questions regarding your Auotac 850W Fully Modular Power Supply, please visit the official Auotac website or contact their customer support team. Contact details can typically be found on the product packaging or the manufacturer's website.