

Montech APX 550W

MONTECH APX 550W Non-Modular Power Supply User Manual

Model: APX 550W

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1. INTRODUCTION

Thank you for choosing the MONTECH APX 550W Non-Modular Power Supply. This power supply unit (PSU) is designed to provide stable and efficient power to your computer components. Featuring DC-to-DC converter technology and 80 PLUS White certification, it ensures reliable performance and reduced energy consumption. This manual will guide you through the installation, operation, and maintenance of your new PSU.



Figure 1: MONTECH APX 550W Power Supply

2. SAFETY INFORMATION

Please read and follow all safety instructions carefully before installing or operating the power supply. Failure to do so may result in personal 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 power supply casing. High voltages are present inside, and there are no user-serviceable parts.
- Install the power supply in a well-ventilated area to prevent overheating.
- Use only the cables provided with the power supply. Using incompatible cables may cause damage.
- Avoid exposing the power supply to moisture or extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- MONTECH APX 550W Power Supply Unit
- AC Power Cord
- Mounting Screws
- User Manual (this document)

4. SETUP

4.1. Physical Installation

1. Ensure your computer case is powered off and unplugged from the wall outlet.
2. Remove the side panel of your computer case to access the PSU mounting area.
3. Position the MONTECH APX 550W PSU into the designated bay in your computer case, typically at the bottom or top rear. Ensure the fan faces the correct direction for optimal airflow (usually facing downwards if there's a vent, or upwards if not).
4. Secure the PSU to the case using the provided mounting screws.

4.2. Cable Connections

The MONTECH APX 550W features a non-modular design with flat cables for improved thermal efficiency and easier cable management. Connect the necessary cables to your components:

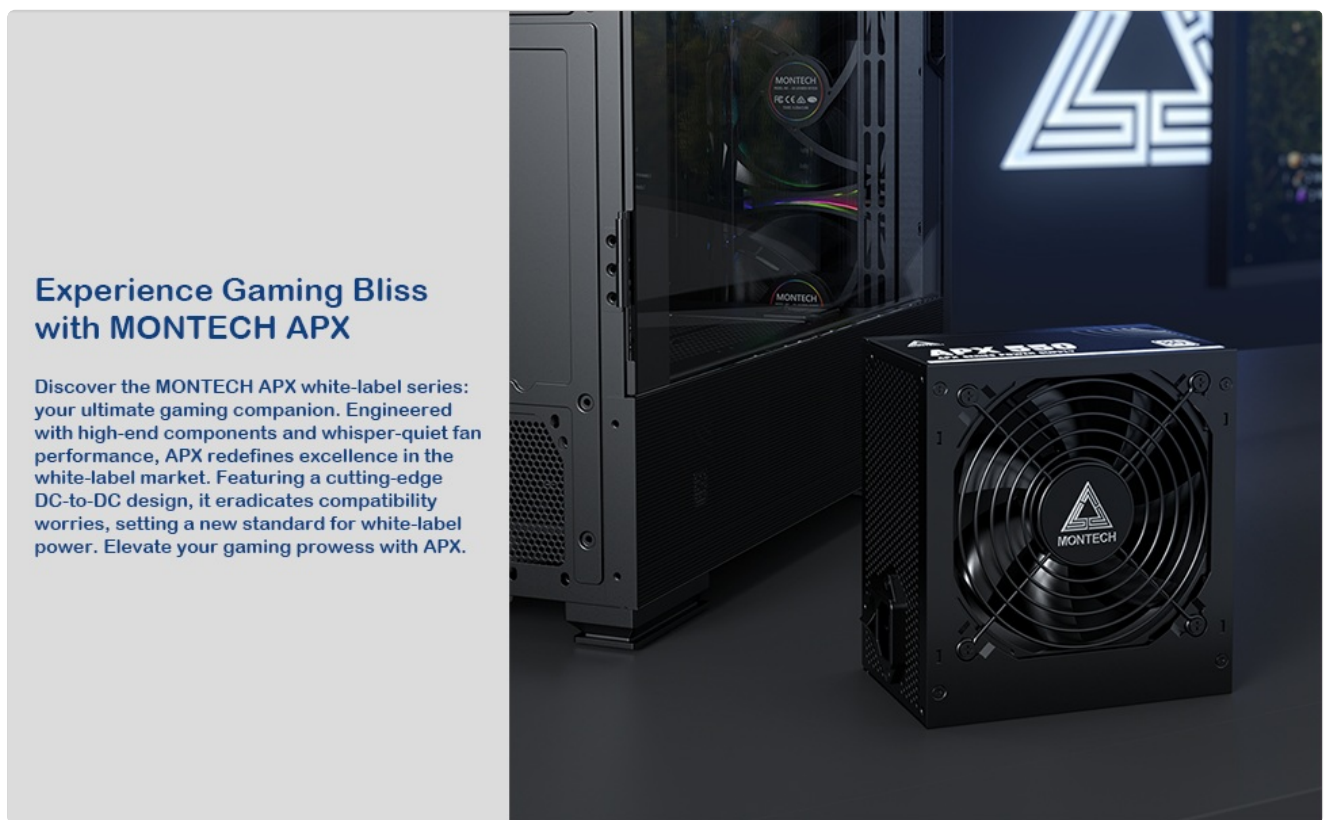


Figure 2: Flat Cable Design and Connectors

- **24-pin ATX Motherboard Connector:** Connect this to the main power socket on your motherboard.
- **4+4-pin CPU Power Connector:** Connect this to the CPU power socket on your motherboard. Some motherboards may require only 4 pins.
- **6+2-pin PCIe Power Connectors:** Connect these to your graphics card(s). Use the 6-pin or 8-pin configuration as required by your GPU.
- **SATA Power Connectors:** Connect these to your SATA hard drives, SSDs, and optical drives.
- **Molex Power Connectors:** Connect these to any peripherals that require Molex power, such as older fans or accessories.

Ensure all connections are secure and properly seated. Organize cables to maintain good airflow within the case.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

1. After all components are connected, plug the AC power cord into the power supply and then into a wall outlet.
2. Flip the power switch on the back of the PSU to the 'I' (On) position.
3. Press the power button on your computer case to start your system.
4. To power off, shut down your operating system normally, then flip the PSU switch to 'O' (Off) if desired for complete power disconnection.

5.2. Smart Zero Fan Feature

The MONTECH APX 550W is equipped with a 120mm hydraulic bearing fan designed for silent operation and efficient cooling. The fan operates intelligently, adjusting its speed based on the power supply's load and temperature to minimize noise while maintaining optimal thermal performance.



Figure 3: 120mm Hydraulic Bearing Fan

6. 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 to prevent dust buildup. Use compressed air to gently remove dust from the fan blades and internal components. Ensure the PSU is unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed and do not obstruct airflow within the computer case.

7. TROUBLESHOOTING

If you encounter issues with your MONTECH APX 550W Power Supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
System does not power on	Loose power connections, PSU switch off, faulty components	Check all cable connections (24-pin, CPU, PCIe). Ensure PSU switch is 'On'. Test with a different power cord or outlet.
System powers on but no display	Graphics card not powered, RAM issues	Ensure PCIe power cables are securely connected to the graphics card. Reseat RAM modules.
System randomly shuts down	Overheating, power fluctuations, faulty PSU	Check for proper ventilation and dust buildup. Ensure stable power source. If issues persist, contact support.
Loud fan noise	Dust buildup, fan malfunction	Clean the fan and grille. If noise persists and is excessive, contact support.

8. SPECIFICATIONS

Feature	Detail
Model Name	APX 550W
Wattage	550 watts
Efficiency Certification	80 PLUS White
Form Factor	ATX
Cooling Method	Air (120mm Hydraulic Bearing Fan)
PFC	Active PFC
DC-to-DC Converter	Yes
Safety Mechanisms	OVP, UVP, OCP, OPP, SCP, OTP
Dimensions (L x W x H)	5.91 x 5.51 x 3.39 inches
Item Weight	3.93 pounds (1.79 Kilograms)
Compatible Devices	Personal Computer



Figure 4: DC-to-DC Converter Technology for Stable Power

9. WARRANTY & SUPPORT

The MONTECH APX 550W Power Supply comes with a comprehensive 5-year warranty, providing coverage against defects and issues. This ensures long-term reliability and peace of mind for your investment.

Robust Protection & 5-Year Warranty

Experience industrial-grade power protection with APX, featuring all six essential mechanisms to ensure stable and safe system operation. Backed by a 5-year warranty, APX guarantees long-term reliability for worry-free usage. Power up with confidence with APX.

OPP

Over Power
Protection

OVP

Over Voltage
Protection

UVP

Under Voltage
Protection

SCP

Short Circuit
Protection

OCP

Over Current
Protection

OTP

Over Temperature
Protection



Figure 5: 5-Year Warranty and Safety Features

For technical support, warranty claims, or any questions regarding your product, please visit the official Montech

website or contact their customer service directly. Please have your product model and serial number ready when contacting support.

Official Product Videos

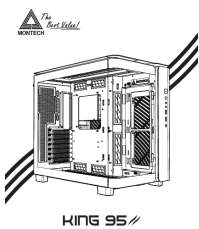

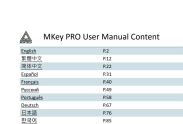
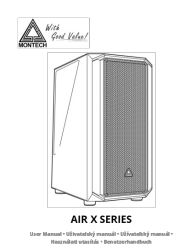

Product Summary Video

Video 1: A brief overview of the MONTECH APX 550W Power Supply, highlighting its key features and benefits.

Product Overview Video

Video 2: A detailed product overview of the MONTECH APX 550W Power Supply, showcasing its design and functionalities.

Related Documents - APX 550W

	<p>Montech KING 95 PC Case User Manual and Specifications</p> <p>Detailed specifications, component breakdown, and installation guides for the Montech KING 95 and KING 95 PRO PC cases. Learn about fan and radiator support, drive bay configurations, I/O interfaces, and cable management.</p>
	<p>MONTECH HyperFlow DIGITAL AIO Liquid CPU Cooler - Specifications & Installation Guide</p> <p>Comprehensive guide for the MONTECH HyperFlow DIGITAL AIO Liquid CPU Cooler, featuring detailed specifications, included accessories, and step-by-step installation instructions for Intel and AMD systems. Learn about thermal paste application, cable connections, and software setup.</p>
	<p>MKey PRO User Manual - Comprehensive Guide to Features and Connectivity</p> <p>Explore the MKey PRO user manual for detailed instructions on Windows and Mac modes, dual-mode switching, tri-mode connectivity (Bluetooth 5.2, 2.4GHz wireless, USB Type-C), warranty information, and safety precautions. Learn how to optimize your MKey PRO experience.</p>
	<p>Montech AIR X SERIES PC Case User Manual</p> <p>User manual for the Montech AIR X SERIES PC case, detailing specifications, installation, and compatibility for components like motherboards, graphics cards, and cooling systems.</p>
	<p>MKey PRO Firmware Update Guide</p> <p>A step-by-step guide for updating the firmware of the Montech MKey PRO keyboard using the QMK Toolbox.</p>



[MONTECH QUICK-SET QS-40 Operating Instructions: Mounting System Components](#)

Comprehensive operating instructions for the MONTECH QUICK-SET QS-40 mounting system. Details profiles, accessories, clamping elements, and tools for mechanical engineering applications.