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› Lian Li EDGE1200W Fully Modular ATX Power Supply Instruction Manual

Lian Li EG1200G

Lian Li EDGE1200W Fully Modular ATX Power Supply Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Lian Li EDGE1200W Fully Modular Low-Noise ATX Power Supply. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

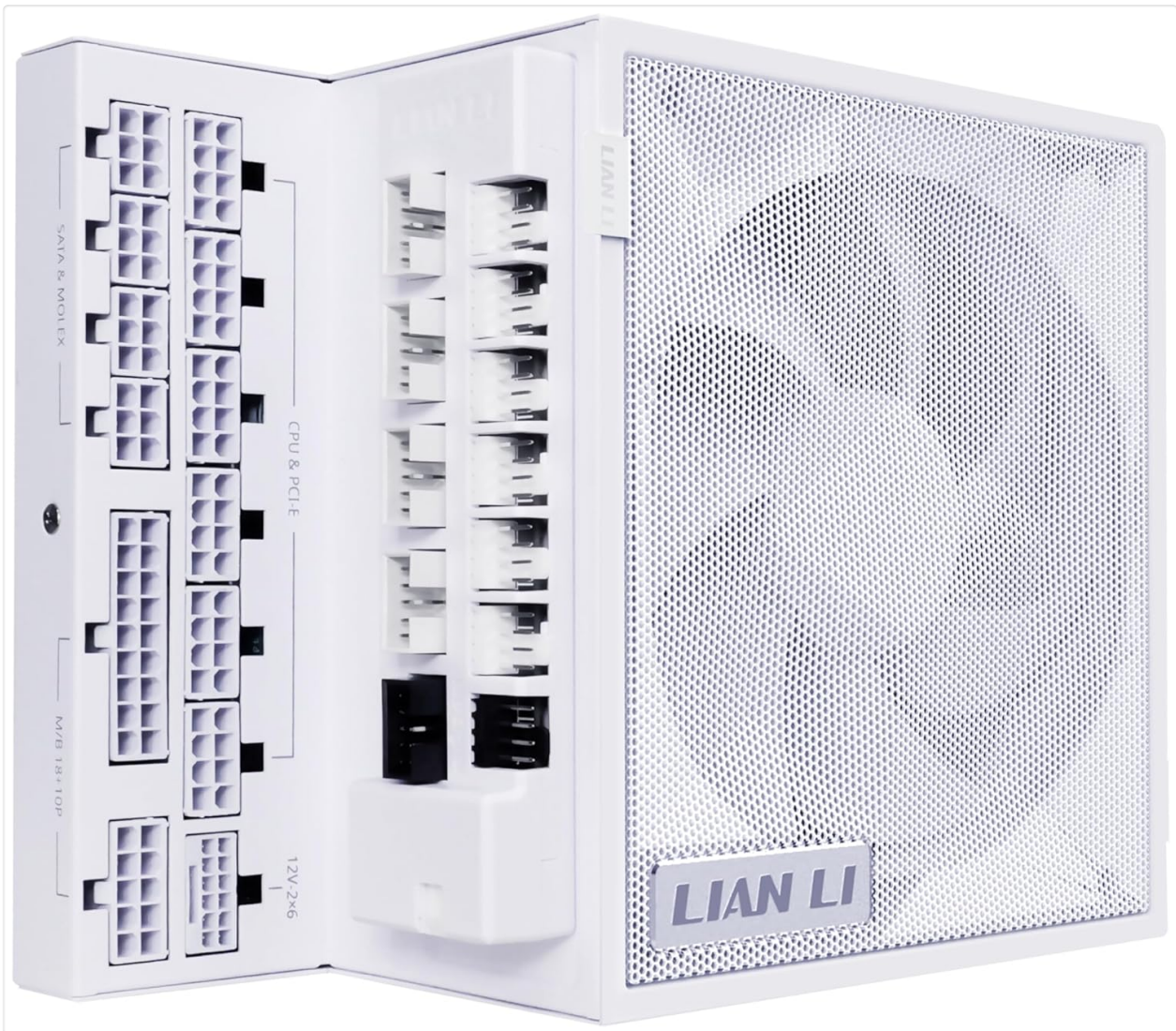


Image 1.1: The Lian Li EDGE1200W Power Supply, showcasing its L-shaped modular connector panel.

2. KEY FEATURES

- **USB/Fan Hub Integration:** Features an EDGE Hub supporting four devices and up to eight downstream connections, ideal for RGB controllers and fan management. The hub includes six 4-pin connectors, each rated for 2A.
- **50/40 Series Ready:** Equipped with a 12V-2x6 connector for NVIDIA GeForce RTX 50 and 40 Series graphics cards, including dual 8-pin to 12VHPWR connectors for broad compatibility.
- **ATX 3.1 Compliant:** Ensures stable and efficient power delivery for high-performance PC components, supporting PCIe 5.1 with enhanced resistance to transient power spikes.
- **High Efficiency & Low Noise:** Certified with 80 PLUS Gold and Cybenetics Gold for optimal efficiency and quiet operation.
- **L-Shape Design:** Unique form factor reorients connectors outward, simplifying cable management in various PC chassis.
- **Magnetic Dust Filter Mesh:** Easily removable for cleaning, ensuring hassle-free maintenance and quiet fan operation.

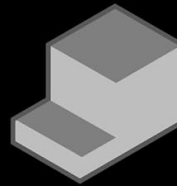
The EDGE Gold PSU series features a unique L-shape design, a removable USB and fan PWM hub, longer modular cables, and a conveniently removable dust filter. Experience efficient cable management in a dual chamber or tower chassis that blends aesthetics and convenience in your PC build.



80 PLUS
GOLD



CYBENETIC
PLATINUM



L-SHAPE
DESIGN



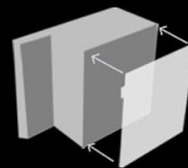
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Year



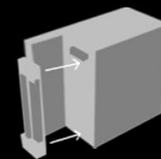
PCI-E 5.1



ATX 3.1



REMOVABLE
DUST FILTER



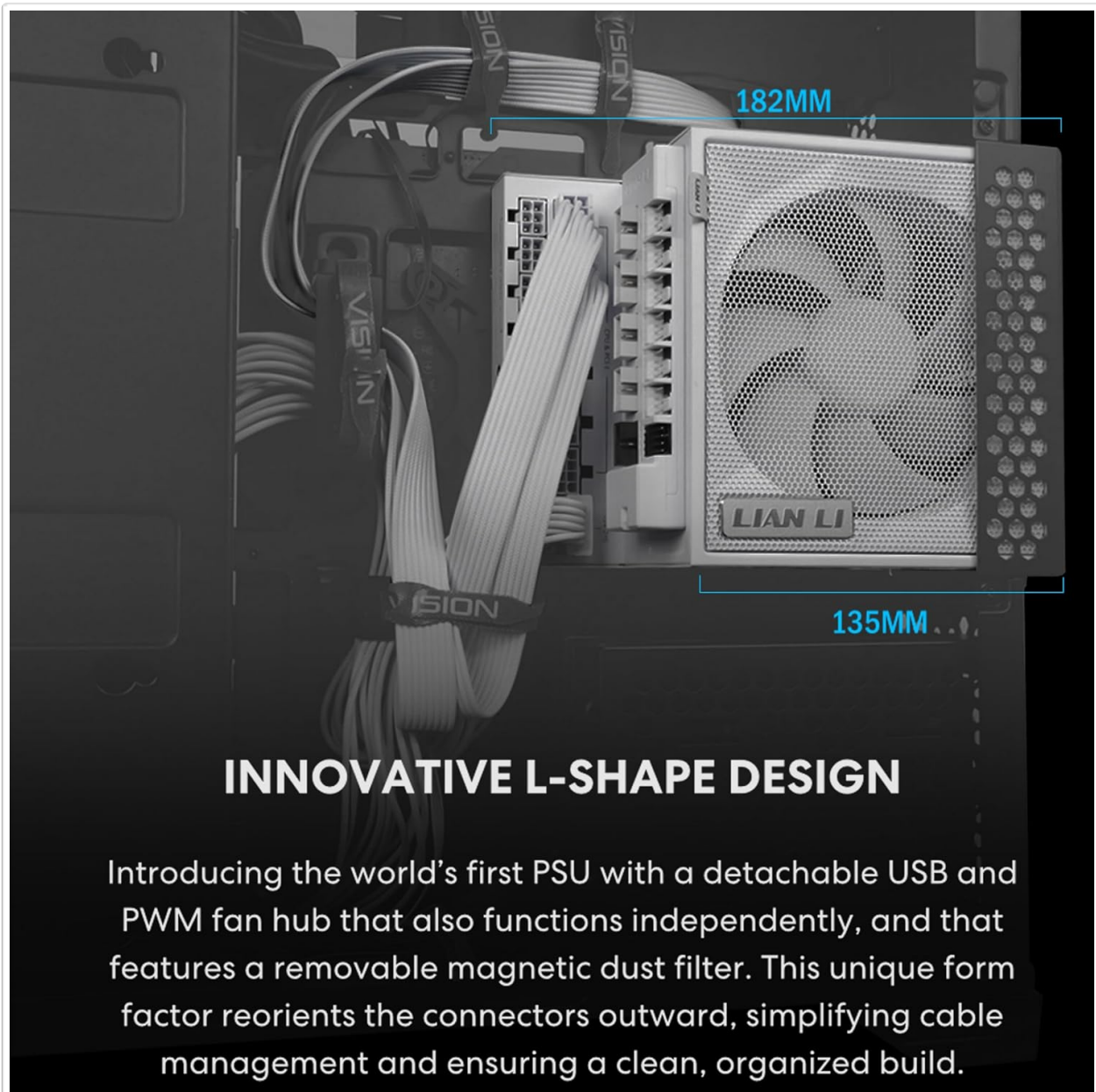
MODULAR
USB/PWM HUB

Image 2.1: Visual summary of key features including efficiency certifications and design elements.

3. SETUP AND INSTALLATION

3.1 Physical Installation

The L-shape design of the Lian Li EDGE1200W PSU is engineered to simplify installation and cable routing, particularly in dual-chamber or tower chassis. Install the PSU into the designated power supply bay of your PC case, ensuring proper alignment with mounting holes.



INNOVATIVE L-SHAPE DESIGN

Introducing the world's first PSU with a detachable USB and PWM fan hub that also functions independently, and that features a removable magnetic dust filter. This unique form factor reorients the connectors outward, simplifying cable management and ensuring a clean, organized build.

Image 3.1: The L-shape design facilitates easier cable management within a PC chassis.

3.2 Cable Management

The fully modular design allows you to connect only the necessary cables, reducing clutter. The PSU comes with braided-texture cables and cable combs for an organized and aesthetically pleasing build.



INDUSTRIAL GRADE CAPACITORS

The EDGE Gold PSU integrates the German EPCOS capacitors or same level Japanese capacitors, offering compact, robust performance with higher tolerances to harsh temperatures and environments.

Image 3.2: Braided cables with combs for improved cable routing and aesthetics.

3.3 USB/Fan Hub Connection

The included EDGE Hub can be connected directly to the PSU or powered independently via a PCIe 8-pin cable. Its magnetic design allows for flexible placement within your case.

- **Direct Connection:** Remove the cap from the Edge Hub and attach it directly to the designated connector on the Edge PSU for power.
- **Independent Power:** Connect the hub to a PCIe 8-pin cable for independent operation if direct connection is not preferred or possible.

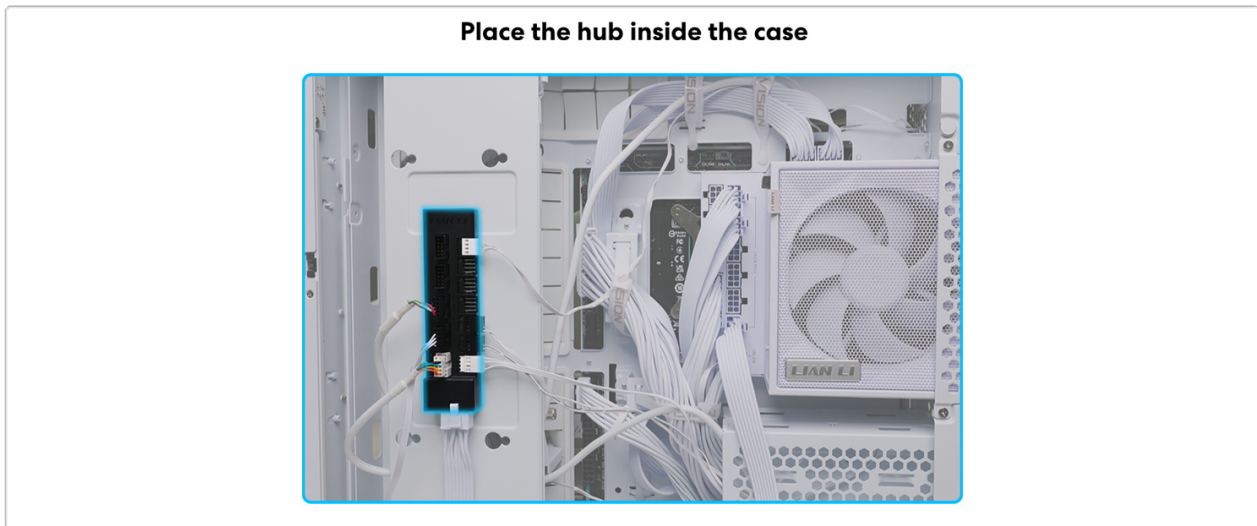


Image 3.3: Instructions for connecting the Edge Hub to the PSU.

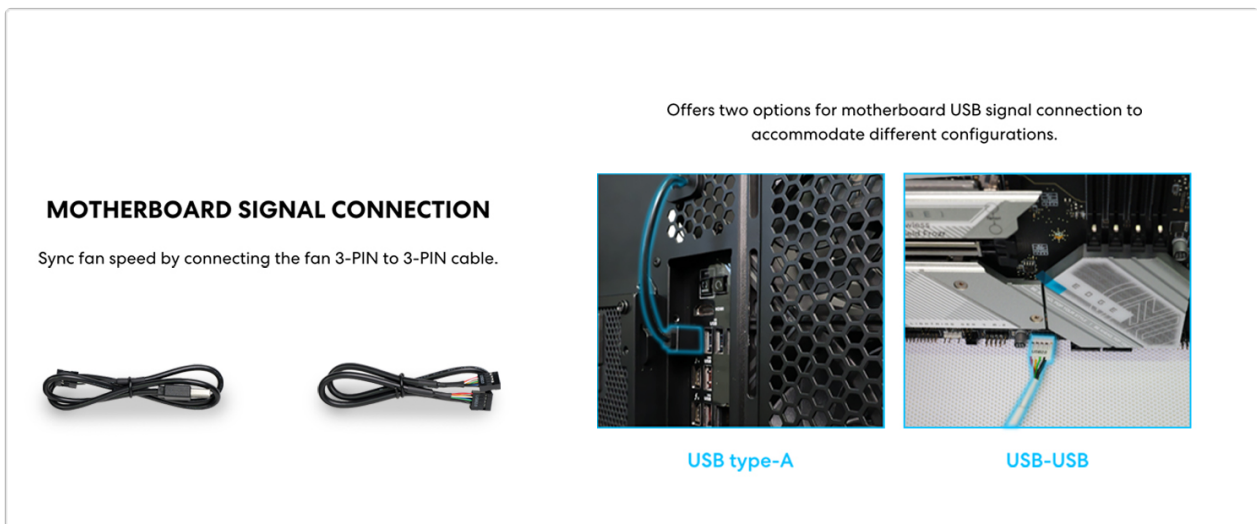


Image 3.4: Example placement of the Edge Hub within a PC case.

3.4 Motherboard Signal Connection

The hub offers two options for motherboard USB signal connection to accommodate different configurations:

- **USB Type-A:** Connect using a standard USB Type-A cable.
- **USB-USB:** Connect using a USB-USB cable.

To synchronize fan speed, connect the fan 3-PIN to 3-PIN cable.



MAGNETIC DUST FILTER

The magnetic mesh dust filter on top of the fan can be easily removed for regular cleaning, ensuring dust-free operation. A high porosity of 66.9% ensures ample ventilation and airflow with quiet fan operation, extending the PSU's lifespan and reliability.

Image 3.5: Motherboard signal connection options for the USB/Fan Hub.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Ensure all components are correctly connected before powering on your system. Use the main power switch on the PSU to turn the unit on or off. Always power down your system and unplug the PSU from the wall outlet before performing any internal hardware changes or maintenance.

4.2 Fan Operation

The PSU features a 120mm PWM fan designed for optimal cooling and low noise. It operates in a fanless mode during low loads for quiet operation, and the fan speed adjusts automatically based on power output to maintain optimal temperatures.

SPECIFICATIONS			
Edge Gold 750	Edge Gold 850	Edge Gold 1000	Edge Gold 1200
1x24/20-Pin motherboard connector(620mm) x1pcs	1x24/20-Pin motherboard connector(620mm) x1pcs	1x24/20-Pin motherboard connector(620mm) x1pcs	1x24/20-Pin motherboard connector(620mm) x1pcs
1x8 pin CPU/ATX 12Vconnector (750mm)x1pcs	1x8 pin CPU/ATX 12Vconnector (750mm)x1pcs	1x8 pin CPU/ATX 12Vconnector (750mm)x1pcs	1x8 pin CPU/ATX 12Vconnector (750mm)x1pcs
1x 4+4 Pin CPU connector (750mm)x1pcs	1x 4+4 Pin CPU connector (750mm)x1pcs	1x 4+4 Pin CPU connector (750mm)x1pcs	1x 4+4 Pin CPU connector (750mm)x1pcs
1 x 6+2 Pin GPU connector\ (650mm+100mm) x1pcs	1 x 6+2 Pin GPU connector\ (650mm+100mm) x1pcs	1 x 6+2 Pin PCIe connector\ (650mm+100mm) x1pcs	1 x 6+2 Pin PCIe connector\ (650mm+100mm) x1pcs
1x SATA connector (300mm-15mm-15mm-15mm) x1pcs	1x SATA connector (300mm-15mm-15mm-15mm) x1pcs	4x SATA connector (300mm-15mm-15mm-15mm) x1pcs	4x SATA connector (300mm-15mm-15mm-15mm) x1pcs
1x SATA-Y connector (375mm-150mm-150mm)x1pcs	1x SATA-Y connector (375mm-150mm-150mm)x1pcs	4x SATA-Y connector (375mm-150mm-150mm)x1pcs	4x SATA-Y connector (375mm-150mm-150mm)x1pcs
1x SATA connector (400mm-150mm-150mm-150mm)x1pcs	1x SATA connector (400mm-150mm-150mm-150mm)x1pcs	4x SATA connector (400mm-150mm-150mm-150mm)x1pcs	4x SATA connector (400mm-150mm-150mm-150mm)x1pcs
4 x 4-Pin Peripheral connector (500mm-150mm-150mm-150mm) x1pcs	4 x 4-Pin Peripheral connector (500mm-150mm-150mm-150mm) x1pcs	4 x 4-Pin Peripheral connector (500mm-150mm-150mm-150mm) x1pcs	4 x 4-Pin Peripheral connector (500mm-150mm-150mm-150mm) x1pcs
1x12V-2X6 450W connector(650mm)x1pcs	1x12V-2X6 450W connector(650mm)x1pcs	1x12V-2X6 600W connector(650mm)x1pcs	1x12V-2X6 600W connector(650mm)x1pcs
2 x 6+2 Pin GPU connector(650mm)x2pcs	2 x 6+2 Pin GPU connector(650mm)x2pcs	USB*9pin-USB*9pin connector(470mm)1pcs	1x12V-2X6 450W connector(650mm)x1pcs
		USB*9pin -Type A connector(550mm)x1pcs	USB*9pin -Type A connector(550mm)x1pcs
			USB*9pin -Type A connector(550mm)x1pcs

Image 4.1: Fan acoustic noise levels relative to power output. Note the fanless mode at low loads.

5. MAINTENANCE

5.1 Magnetic Dust Filter Cleaning

The magnetic mesh dust filter on top of the fan can be easily removed for regular cleaning. This ensures dust-free operation, maintains ample ventilation, and extends the PSU's lifespan and reliability.

- Gently pull the magnetic dust filter upwards to remove it from the PSU.
- Clean the filter using a soft brush or compressed air to remove accumulated dust.
- Align the filter with the PSU's top panel and allow the magnets to secure it back in place.

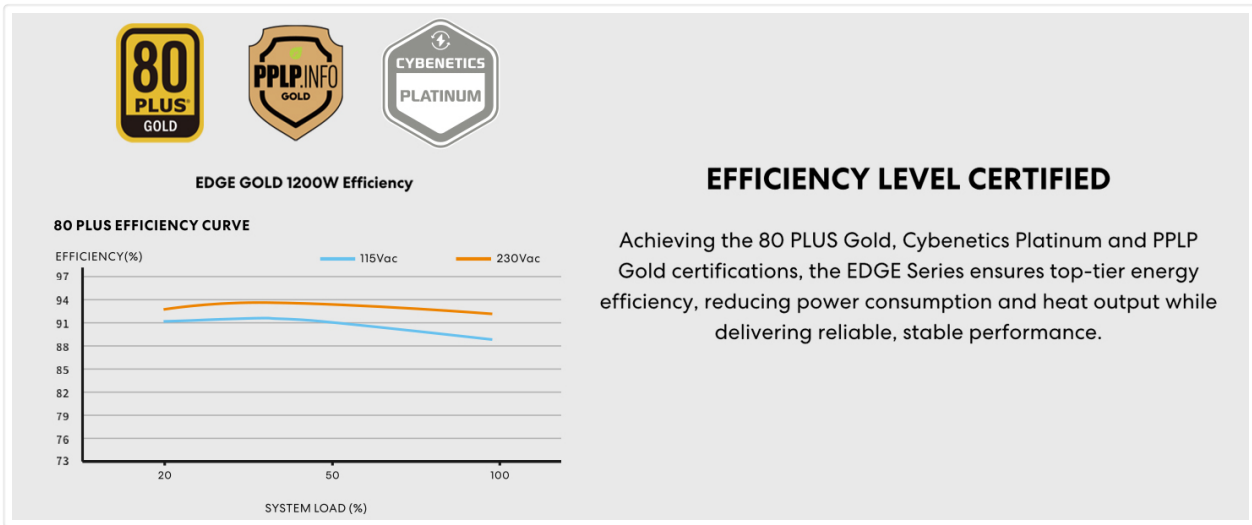


Image 5.1: The magnetic dust filter is easily removable for cleaning.

6. SPECIFICATIONS

The Lian Li EDGE1200W Power Supply adheres to ATX 3.1 standards and features industrial-grade capacitors for robust performance.

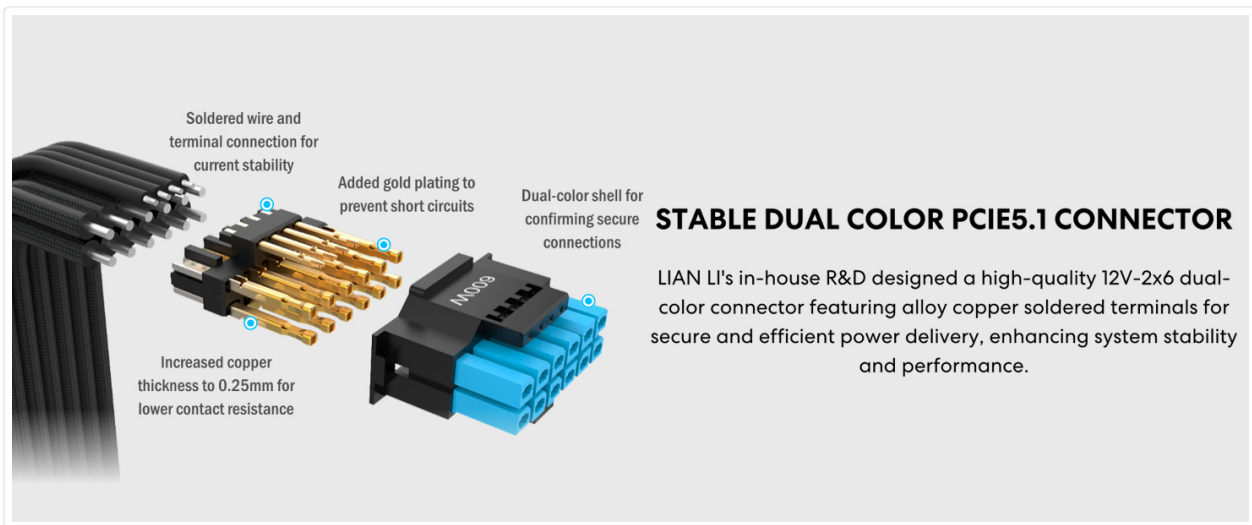


Image 6.1: Industrial-grade capacitors ensure stable and reliable power delivery.

6.1 General Specifications

Attribute	Value
Product Dimensions	7.17 x 3.39 x 5.91 inches
Item Weight	8.16 pounds
Manufacturer	LIAN LI
Item Model Number	EG1200G.WH

Brand	Lian Li
Compatible Devices	Desktop
Connector Type	ATX
Output Wattage	1200 Watts
Form Factor	ATX
Cooling Method	Air

6.2 Efficiency and Certifications

The EDGE series is certified for high efficiency, reducing power consumption and heat output.

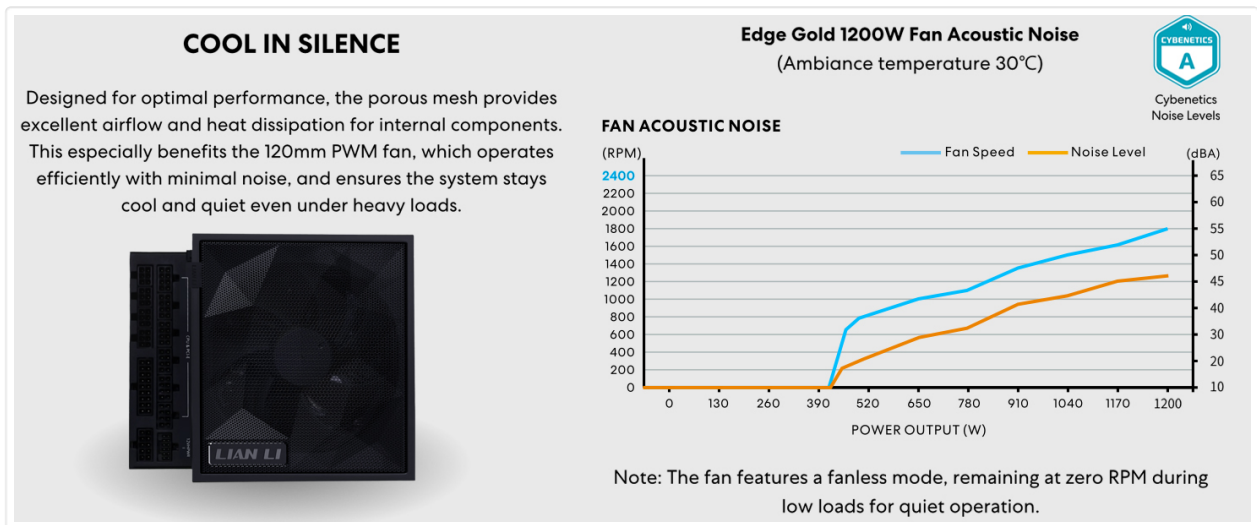


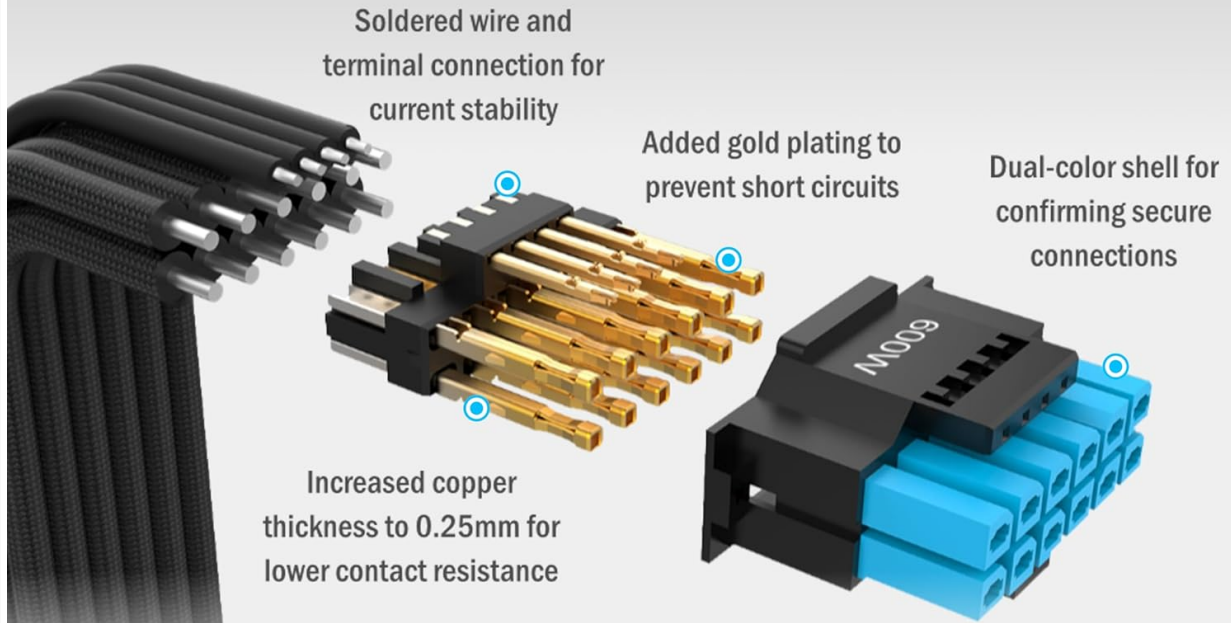
Image 6.2: Efficiency levels certified by 80 PLUS Gold, Cybenetics Platinum, and PPLP Gold.

6.3 Connector Details

The PSU features a high-quality 12V-2x6 dual-color connector with alloy copper soldered terminals for secure and efficient power delivery.

STABLE DUAL COLOR PCIE5.1 CONNECTOR

LIAN LI's in-house R&D designed a high-quality 12V-2x6 dual-color connector featuring alloy copper soldered terminals for secure and efficient power delivery, enhancing system stability and performance.



The terminal maintains a contact resistance below 1.5mΩ after 50 plug/pull cycles, compared to ordinary terminals at 2-3mΩ, enhancing the connector's performance and long-term reliability.

Image 6.3: Detailed view of the PCIe 5.1 connector design for enhanced stability and performance.

SPECIFICATIONS																			
PRODUCT NAME	MODEL	DIMENSIONS	POWER SUPPLY DESIGN	COLOR	MATERIAL	FORM FACTOR	CERTIFICATION	MAX. DC OUTPUT	COMBINED +3.3V & +5V	COMBINED +12V	INPUT VOLTAGE	INPUT FREQUENCY RANGE	PFC	EFFICIENCY	PROTECTIVE CIRCUIT	FAN TYPE	FAN SPEED	FAN NOISE LEVEL	WARRANTY
EDGE GOLD 750	EG0-750G	(D) 182 mm (W) 86 mm (H) 150 mm	Fully modular	Black	Steel	ATX 3.1	80 PLUS GOLD/ Cybenetics GOLD/ PPLP GOLD	750W	120W	744W	100-240Vac	9-4.5A 50-60Hz	100-240Vac	90.52% MAX	OCP / OVP / OTP / OPP / SCP / UVP	120 mm FDB Fan	2000 RPM	30.9dBA	10 Years (Hub 2 Years)
EDGE GOLD 850	EG0-850G			850W				120W	849W	10-5A 50-60Hz		90.71% MAX							
EDGE GOLD 1000	EG0-1000G			1000W				120W	996W	12-6A 50-60Hz		91.24% MAX							
EDGE GOLD 1200	EG0-1200G			1200W				120W	1200W	15-7.5A 50-60Hz		91.64% MAX							

Image 6.4: Connector specifications for various Edge Gold PSU models.

7. TROUBLESHOOTING

If you encounter issues with your Lian Li EDGE1200W Power Supply, consider the following troubleshooting steps:

- **No Power:** Ensure the PSU's main power switch is in the 'ON' position and the power cable is securely connected to both the PSU and a working wall outlet. Verify that the motherboard's 24-pin and CPU power connectors are firmly seated.
- **System Instability/Crashes:** Check all power connections to components (GPU, storage drives, etc.) to ensure they are secure. If issues persist, test components individually if possible, or consult a qualified technician.
- **Fan Noise:** The PSU fan operates in a fanless mode at low loads. If the fan is constantly running loudly, ensure adequate airflow within your PC case and that the PSU's dust filter is clean.
- **USB/Fan Hub Issues:** Verify the hub is correctly connected to the PSU or independently powered. Check motherboard signal connections (USB Type-A or USB-USB) for proper data transfer.

For further assistance, please refer to the support section or contact Lian Li customer service.

8. WARRANTY AND SUPPORT

The Lian Li EDGE1200W Power Supply comes with a **10-year warranty** for the main power supply unit. The integrated USB/Fan Hub module is covered by a **2-year warranty**.

For technical support, warranty claims, or additional product information, please visit the official Lian Li website or contact their customer service department.

Lian Li Official Website: www.lian-li.com