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**EVGA 220-P6-1000-X1**

# EVGA Supernova 1000 P6 Power Supply User Manual

Model: 220-P6-1000-X1

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EVGA Supernova 1000 P6 Power Supply. Please read this manual thoroughly before installation and keep it for future reference.



Image: The EVGA Supernova 1000 P6 power supply unit shown alongside its retail packaging.

## SAFETY INFORMATION AND PROTECTIONS

**WARNING: Improper installation or use can result in serious injury or damage to your system components. Always consult a qualified technician if you are unsure about any steps.**

- Ensure the power supply is disconnected from the AC power outlet before installation or removal.
- Do not open the power supply casing. There are no user-serviceable parts inside, and opening it voids the warranty.
- Install the power supply in a well-ventilated area, away from heat sources and moisture.
- Use only the modular cables provided with your EVGA Supernova P6 power supply. Using incompatible cables can damage the PSU and connected components.
- This product is designed for use with personal computers. Do not use it for industrial or other non-specified applications.

### Advanced Protection Features:

The EVGA Supernova P6 series incorporates multiple protection mechanisms to safeguard your system:

- **OVP (Over Voltage Protection)**
- **OCP (Over Current Protection)**
- **SCP (Short Circuit Protection)**
- **UVP (Under Voltage Protection)**
- **OTP (Over Temperature Protection)**
- **Dual OPP (Over Power Protection - Hardware + Firmware)**

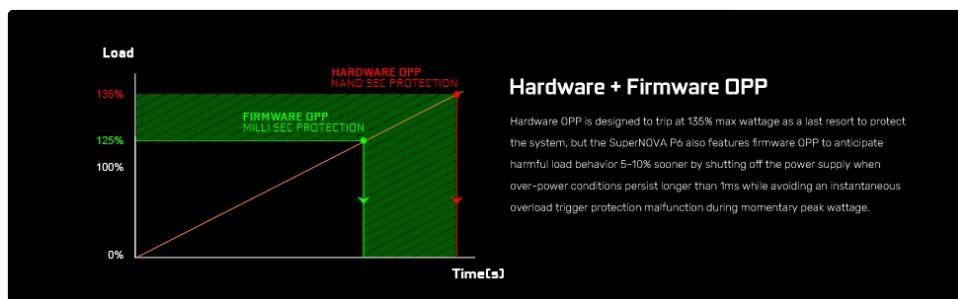


Image: A graph demonstrating the Hardware OPP (135% max wattage) and Firmware OPP (125% max wattage) mechanisms, showing their respective response times for system protection.

## PACKAGE CONTENTS

Verify that all items are present in your package:

- EVGA Supernova 1000 P6 Power Supply Unit
- Modular Cable Set (including ATX 24-pin, EPS/CPU, PCIe, SATA, Peripheral cables)
- AC Power Cord
- Mounting Screws
- Power ON Self Tester
- User Manual (this document)



Image: A comprehensive view of the modular cables, mounting screws, and power ON self tester included with the EVGA Supernova P6 power supply.

## PRODUCT OVERVIEW

The EVGA Supernova 1000 P6 is a fully modular power supply designed for high performance and efficiency.



Image: Top-down view of the power supply, highlighting the clearly labeled modular ports for various cables such as MB, VGA, CPU, SATA, and Peripheral.

## Key Features:

- 80 PLUS Platinum Certified:** Ensures high energy efficiency, reducing heat and operating costs.
- Fully Modular Design:** Allows for cleaner cable management and improved airflow within your PC case.
- 100% Japanese Capacitors:** Provides long-term reliability and stability.
- Fluid Dynamic Bearing (FDB) Fan:** Offers quiet operation and extended lifespan.
- EVGA ECO Mode:** Enables silent operation at low to medium loads by stopping the fan.
- Compact Size:** The P6 series features a compact 140mm size, making it suitable for various PC builds.



Image: An infographic detailing essential features of the power supply, including 80 PLUS Platinum certification, fully modular design, 100% Japanese capacitors, flat cables, and a full suite of protections.

## Next Generation Platform:

The SuperNOVA P6 utilizes a full-bridge LLC Resonant Converter and DC-DC design, leading to superior voltage regulation and extremely low ripple and noise, ensuring stable power delivery to your components.

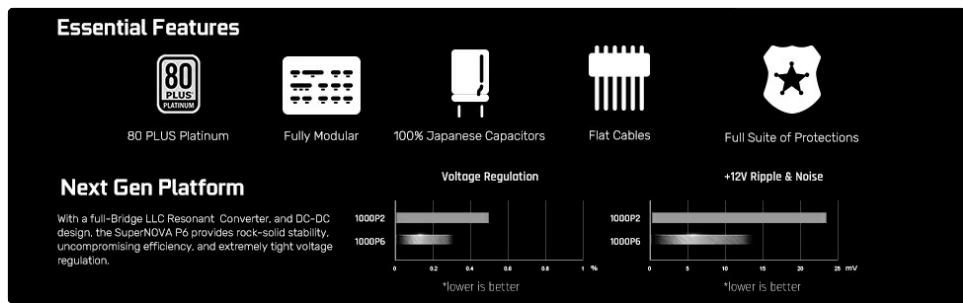


Image: Comparative graphs illustrating the improved voltage regulation and reduced +12V ripple and noise performance of the 1000P6 model compared to the 1000P2.

## SETUP AND INSTALLATION

### 1. Prepare Your System:

- Turn off your computer and unplug the AC power cord from the wall outlet.
- Open your computer case.
- If replacing an old PSU, disconnect all cables from the old power supply and remove it from the case.

### 2. Install the New PSU:

- Carefully slide the EVGA Supernova 1000 P6 into the power supply bay of your computer case.
- Secure the power supply to the case using the provided mounting screws.

### 3. Connect Modular Cables:

- Connect the necessary modular cables to the power supply first. Refer to the labels on the PSU for correct port identification (e.g., MB for motherboard, VGA for graphics cards, CPU for CPU power).
- Connect the other end of each cable to the corresponding component in your system (motherboard, graphics card(s), SSDs/HDDs, etc.).
- Ensure all connections are firm and secure.

### 4. Cable Management:

- Route cables neatly to improve airflow and aesthetics within your case.

### 5. Final Steps:

- Close your computer case.
- Connect the AC power cord to the power supply and then to a wall outlet.
- Turn on your computer.

## OPERATING INSTRUCTIONS

### Power ON Self Tester:

The included Power ON Self Tester allows you to verify the basic functionality of your power supply before installing it into your system. Simply plug the 24-pin ATX cable into the tester and then into the power supply. Connect the AC power cord and flip the PSU's power switch to ON. If the PSU fan spins briefly and the tester's LED lights up, the basic power delivery is functional.

### EVGA ECO Mode:

The EVGA Supernova 1000 P6 features an ECO mode switch on the rear of the unit. This mode allows the power

supply fan to remain off during low to medium loads, providing silent operation. The fan will automatically activate when the load increases or internal temperatures rise to maintain optimal cooling.



Image: The rear panel of the power supply, clearly showing the main power switch and the toggle switch for activating or deactivating the EVGA ECO mode.

- **ECO Mode ON:** Fan operates only when necessary (recommended for quiet operation).
- **ECO Mode OFF:** Fan spins continuously, regardless of load (may result in slightly higher noise levels).



Image: An infographic highlighting the compact size of the P6 series compared to P2, and a graph illustrating the ultra-quiet operation of the 135mm FDB fan with EVGA ECO Mode enabled, showing noise levels relative to load.

## MAINTENANCE

To ensure the longevity and optimal performance of your EVGA SuperNOVA 1000 P6 power supply, follow these maintenance guidelines:

- **Keep it Clean:** Periodically clean dust from the power supply's fan intake and exhaust vents using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Ensure Proper Airflow:** Make sure your PC case has adequate airflow to prevent heat buildup around the power supply.
- **Avoid Overloading:** Do not exceed the power supply's rated wattage. Ensure your system's total power consumption is within the PSU's capacity.
- **Regular Checks:** Occasionally check cable connections to ensure they remain secure.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Power supply does not turn on.	<ul style="list-style-type: none"> <li>AC power cord not connected.</li> <li>PSU power switch is OFF.</li> <li>Loose cable connections.</li> <li>Faulty wall outlet.</li> <li>Internal protection triggered.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure AC cord is firmly plugged into PSU and wall.</li> <li>Flip the PSU power switch to ON.</li> <li>Check all modular cable connections (24-pin, CPU, GPU).</li> <li>Test the wall outlet with another device.</li> <li>Unplug PSU for 5 minutes, then retry. If problem persists, contact support.</li> </ul>
System crashes or reboots under load.	<ul style="list-style-type: none"> <li>Insufficient wattage for components.</li> <li>Overheating.</li> <li>Loose power connections.</li> </ul>	<ul style="list-style-type: none"> <li>Verify total system power draw does not exceed 1000W.</li> <li>Ensure proper case airflow and clean PSU fan.</li> <li>Re-seat all power cables.</li> </ul>
Fan is noisy or not spinning.	<ul style="list-style-type: none"> <li>ECO mode is ON (fan not spinning).</li> <li>Dust buildup in fan.</li> <li>Fan malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>If ECO mode is ON, fan will only spin under load. This is normal.</li> <li>Clean fan and vents with compressed air.</li> <li>If fan is constantly noisy or not spinning when it should be (ECO mode OFF or under high load), contact support.</li> </ul>

## SPECIFICATIONS

Detailed technical specifications for the EVGA Supernova 1000 P6 Power Supply:

Feature	Detail
Model Number	220-P6-1000-X1
Wattage	1000 Watts
80 PLUS Rating	Platinum (92% efficiency or higher under typical loads)
Form Factor	ATX
Cooling Method	Air (Fluid Dynamic Bearing Fan)
Dimensions (L x W x H)	3.4 x 5.9 x 5.5 inches (86.4 x 150 x 140 mm)
Weight	7.57 pounds (3.44 kg)
Input Voltage	100-240V~
Input Frequency	50/60Hz
Capacitors	100% Japanese Capacitors
Protections	OVP, OCP, SCP, UVP, OTP, Dual OPP



Image: The side panel of the power supply displaying its electrical specifications label, including AC input, DC output voltages, maximum currents, and combined wattage.

Protection					
AC Input					100-240V~, 13-6.5A, 60/50Hz
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
MAX Output	25A	25A	83.3A	0.5A	3A
Combined	125W		1000W	6W	15W
Output Power			1000W		

Image: A table summarizing the various protection features integrated into the power supply, such as Over Voltage Protection (OVP), Over Current Protection (OCP), and Over Temperature Protection (OTP).

## WARRANTY AND SUPPORT

EVGA provides a comprehensive warranty for the SuperNOVA 1000 P6 power supply.

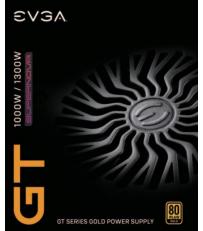
- Warranty Period:** This product typically comes with a 10-year warranty from the date of purchase. Please refer to the official EVGA website for the most current and detailed warranty terms and conditions.
- Registration:** It is highly recommended to register your product on the EVGA website shortly after purchase to ensure full warranty coverage.
- Technical Support:** For technical assistance, troubleshooting beyond this manual, or warranty claims, please visit the official EVGA support website or contact their customer service.
- Official User Manual:** A PDF version of the user manual can often be found on the EVGA product page or support section. A direct link to the PDF provided in the product data is [here](#).

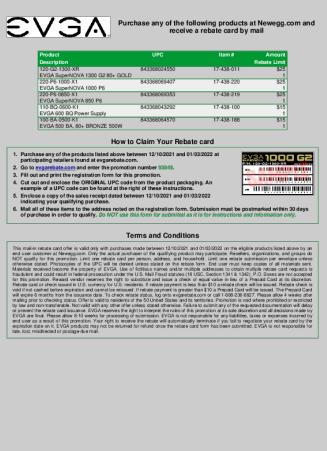
For the latest support information and contact details, please visit the official EVGA website [www.evga.com](http://www.evga.com)

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This manual is for informational purposes only. Specifications are subject to change without notice.

## Related Documents - 220-P6-1000-X1

	<p><a href="#"><u>EVGA SuperNOVA GT Series 1000W/1300W Power Supply User Manual</u></a></p> <p>User manual for the EVGA SuperNOVA GT Series 1000W and 1300W power supplies, detailing features, installation, specifications, and troubleshooting.</p>
	<p><a href="#"><u>EVGA SuperNOVA P5 Series Platinum Power Supply User Manual</u></a></p> <p>User manual for the EVGA SuperNOVA P5 Series Platinum power supplies (650W, 750W, 850W, 1000W), covering features, installation, specifications, cable configuration, and troubleshooting.</p>
	<p><a href="#"><u>EVGA SuperNOVA P+ 1300W / 1600W Platinum Series Power Supply User Manual</u></a></p> <p>Comprehensive user manual for the EVGA SuperNOVA P+ series 1300W and 1600W Platinum certified power supplies. Covers features, installation, safety information, cable configuration, specifications, and frequently asked questions.</p>
	<p><a href="#"><u>EVGA Supernova 1600 G+ 1600W 80+ Gold Fully Modular Power Supply User Manual</u></a></p> <p>User manual for the EVGA Supernova 1600 G+ 1600W 80+ Gold Fully Modular Power Supply. This guide covers installation, features, specifications, safety precautions, troubleshooting, and warranty information.</p>
	<p><a href="#"><u>EVGA SuperNOVA G5 Series Gold Power Supply User Manual</u></a></p> <p>User manual for the EVGA SuperNOVA G5 Series Gold power supplies (650W, 750W, 850W, 1000W), detailing features, installation, specifications, and safety information.</p>
	<p><a href="#"><u>EVGA SuperNOVA G7 Power Supply Quick Guide</u></a></p> <p>Discover the EVGA SuperNOVA G7 series, a compact, 80 Plus Gold certified ATX power supply delivering high efficiency, quiet operation, modular design, and comprehensive protections. This guide covers features, installation, and specifications for models ranging from 650W to 1000W.</p>



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