

# Review of the Seasonic Prime 1000GD 1000W power supply

This review of the Seasonic Prime 1000GD 1000W power supply will give you a clearer picture of this high-efficiency, top-performing power supply from Seasonic's Prime series, making it easier for you to make a purchase decision.

Extremely high efficiency and superior performance are the result of Seasonic's continuous commitment to innovation and progress over time. The introduction of the Prime series further solidifies this manufacturer's position. Improved low-load performance, noise reduction, and a 12-year warranty are just some of the features that set Seasonic products in general, **and** the Prime series in particular, apart from other computer power supplies on the market. In this article, TipsMake focuses on the **1000W Seasonic Prime 1000GD** model from the Prime series and will highlight its outstanding features.



**Detailed review of the Seasonic Prime 1000GD 1000W power supply.**

## *1. Specifications of the Seasonic Prime 1000GD 1000W power supply*

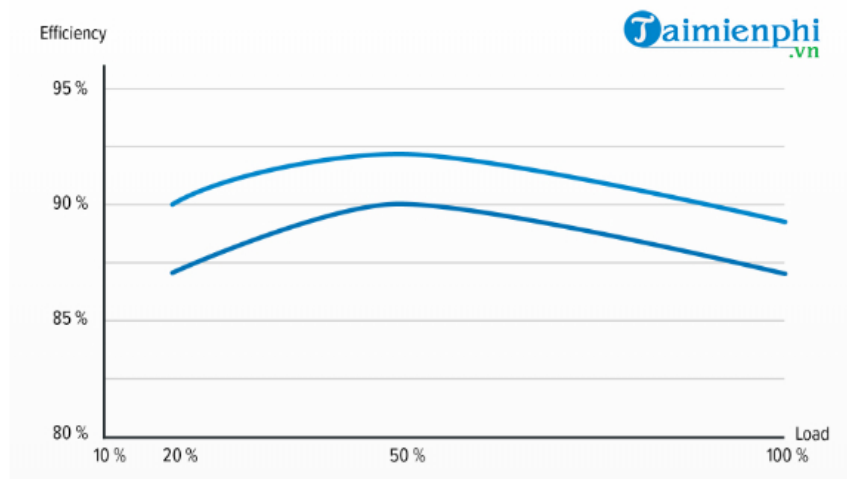


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- Product Name: SSR-1000GD
- Certification: 80 PLUS Gold
- Dimensions: 170 x 150 x 86mm
- Rated Power: 1000W
- Cooling Fan: 135mm
- Form Factor: Intel ATX 12V
- Modular System: Fully Modular
- Cable Type: Black Flat Cable
- Lifespan: 70,000 hours at 40°C, 15% - 65% RH
- Operating Temperature: 0 - 50°C
- Input Voltage: 100-240V
- Protection Standards: OPP, OVP, UVP, OCP, OTP, SCP
- Safety and EMC Standards: cTUVus, TUV, CB, CCC, BSMI, EAC

## 2. Key features of the Seasonic Prime 1000GD 1000W power supply

**\* 80 PLUS Gold Certified**



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Seasonic was a pioneer in creating the first 80 PLUS Gold certified power supplies on the market, and they developed the renowned Prime series known for its high efficiency and effectiveness. 80 PLUS Gold certification guarantees efficiency greater than 87%, 90%, and 97% at 20%, 50%, and 100% load, respectively. The clear advantage of purchasing an 80 PLUS Gold certified power supply is less energy waste during power conversion, resulting in lower operating costs.

**\* Advanced fan control and Fluid Dynamic Bearing technology**

Seasonic's extensive experience in designing the quietest and most efficient computer power supplies on the market has translated into the development of Hybrid Mode, an advanced fan control that allows users to keep overall fan noise levels as low as possible.

High-performance Fluid Dynamic Bearing (FDB) fans are designed to take advantage of the impact-absorbing effects of oil. They are extremely reliable, generating significantly less noise and heat than Ball Bearing fans. Lubrication of the bearing surfaces reduces friction and vibration, thus reducing overall power consumption. With easy rotation, quieter operation, and its robust construction, this reliable fan technology also significantly increases fan lifespan.

As the fan shaft rotates, high-pressure oil flows along the grooves of the bearing bushings to create a thin layer of lubricant between the bearing faces. As speed increases, the oil pressure also increases, and the shaft is lifted away from the bearing to create smooth, effortless rotations. The herringbone shape of the bushings helps distribute the lubricant efficiently and prevents leakage.

**\* The sound emitted by a computer power supply is extremely low.**

The Seasonic Prime 1000GD 1000W power supply utilizes carefully selected components and innovative circuit design to minimize noise output. Beyond rigorous internal testing, the power supply undergoes external testing with the most popular graphics cards to ensure that noise levels at all load levels are kept as low as possible.

**\* Stable energy performance**

Seasonic's latest design keeps the output voltage within a very tight range, achieving load stability below 0.5% (1% for 1000W and above). This stable and impressive power performance makes the SSR-1000GD an ideal choice for high-performance systems.

**\* Gold-plated connector**



The critical connector pins are all gold-plated (motherboard, CPU, and PCIe cables), which helps extend the lifespan of the connectors and significantly increases the efficiency of current transmission.

#### \* **Cable-free design**

Seasonic engineers have implemented a new design language where, instead of cables, the backplate and PCB (Printed Circuit Board) are connected using a copper plate. This groundbreaking solution not only reduces the risk of errors during manufacturing but also improves the quality of the power output.

#### \* **Supports multiple GPU platforms**

The SSR-1000GD power supply is equipped with 6-pin and 8-pin PCI-E connectors to support all GPU platforms.

Seasonic employs the most efficient manufacturing methods, uses the best materials, and works with the most reliable suppliers to produce its leading product line. With a 1000W capacity, a 12-year warranty, and the aforementioned features, the Seasonic Prime 1000GD 1000W power supply is a quality option you shouldn't overlook when considering purchasing a computer power supply.

If the Seasonic Prime 1000GD 1000W power supply hasn't fully satisfied you, please refer to our review of the Cooler Master V1000 1000W power supply here for more information and to help you make your choice.

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