

Review of the Cooler Master V1000 1000W power supply

Cooler Master has developed the V series and reaffirmed its position as a leading global supplier of computer power supplies. The V-series power supplies include three wattages: 700W, 850W, and 1000W. In this article, we will explore the Cooler Master V1000 1000W power supply.

Cooler Master 's new **V-series** power supplies are their top-of-the-line, designed in collaboration with Seasonic. Cooler Master offers V-series power supplies in three wattages: **700W** , **850W** , and **1000W** . All three models meet most user requirements. They are all 80 PLUS Gold certified and come with a 5-year warranty. Of the three models, the Cooler Master V1000 1000W is the best choice for PC users demanding a truly top-of-the-line power supply, acting as a mini power plant to power their entire system. This review of **the Cooler Master V1000 1000W** will help you better understand the specifications, design, and features of this power supply.



Detailed review of the Clooer Master V1000 1000W power supply.

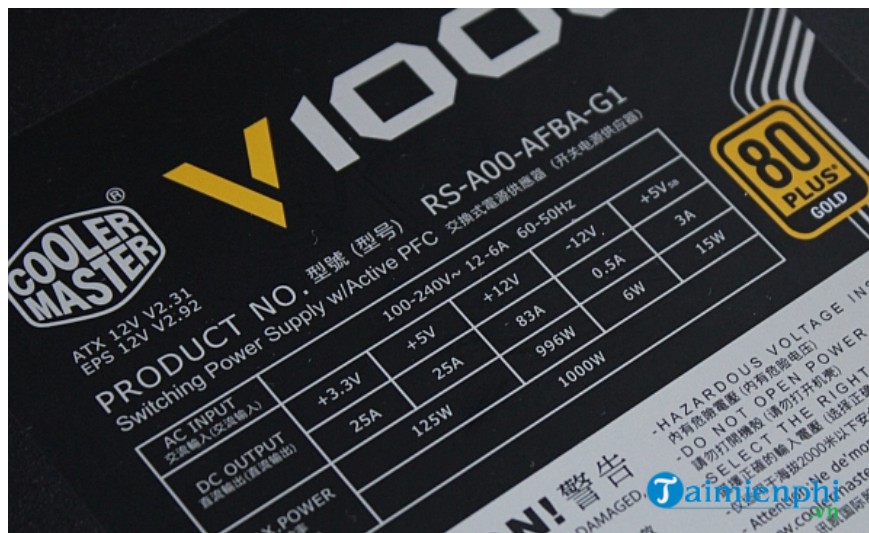
1. Unbox it and what do you get?



When you open the Cooler Master V1000 1000W box, you will find all of the following components:

- The Cool Master RS-A00-AFBA-G1 computer power supply comes in a velvet pouch.
- 1 x Modular cable set
- 1 x AC power cord
- 4 x Mounting screws
- 1 x Cable carrying pouch
- Quick installation guide

2. Specifications and design of the Cooler Master V1000 1000W



- Model: RS-A00-AFBA-G1
- Type: ATX12 V/EPS12 V
- Dimensions: 150 x 170 x 86 mm
- Input Current: 12 - 6A
- Input Voltage: 90 - 264 Vac
- Input Frequency Range: 60 - 50 Hz

- Modular: Full
- Efficiency: 80%
- MTBF: Over 100,000 hours
- Protection: OVP, UVP, OPP, OTP, SCP
- Power: 1000W
- Operating Temperature: 0 - 50°C
- Fan: Fluid Dynamic Bearing
- Certification: 80 PLUS Gold

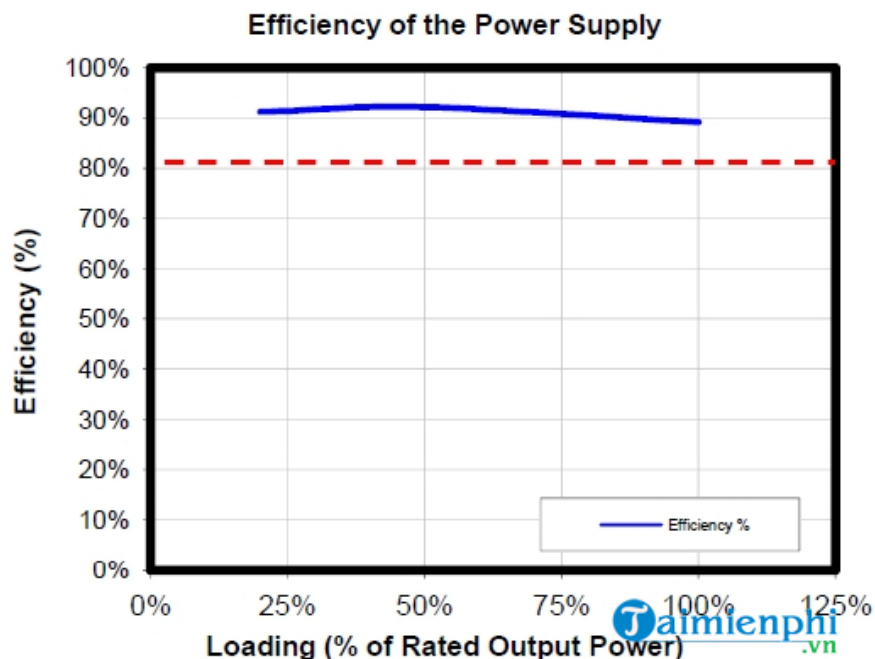
The Cooler Master V1000 1000W measures 150 x 170 x 86 mm, weighs over 1.9 kg, and fits into all standard PC cases. Its modular design makes the V1000 look very compact for its segment. The fully modular design allows users to only use the cables they actually need, keeping the chassis clutter-free.

In terms of exterior design, the V1000 is praised for its eye-catching black color and the rigidity of its metal frame, which is 0.9 mm thick. The V1000's metal shell stands out with its beautiful matte finish that resists dust and fingerprints. It gives the feel and look of a quality product.

All cable connectors are clearly arranged and marked, so even inexperienced users won't encounter any problems. Specifications are printed on the top of the power supply and it has 80 PLUS Gold certification. The V1000 is a Single Rail +12V power supply providing up to 83A, so it has a good voltage level, powerful enough to handle high-end graphics cards and hi-end systems.

3. Efficiency and power consumption

The Cooler Master V1000 is a 1000W computer power supply that is 80 PLUS Gold certified. This means it achieves an efficiency of 87-90%, with 87% efficiency for workloads of 20%, 50%, and 100%, respectively. This also means it operates efficiently and doesn't waste energy. Based on data from 80plus.org, the V1000 has achieved a platinum certification. The following chart shows that the V1000's efficiency is above or around 90% most of the time.



Real-world testing proves the V1000 is a quality computer power supply. One of the problems many high-end PSU users face is that their powerful PSUs can blow the fuse as soon as they are powered on. This can happen if the PSU consumes too much power, resulting in a high startup current. Users of the V1000 have reported no such problems. In standby mode, power consumption is only 0.2 W.

In testing using an EVGA X79 FTW motherboard, a Sandy Bridge-E Core i7 3820 (4.2 GHz) processor, and three Geforce GTX 780 graphics cards in SLI, with full CPU and graphics card load, the V1000 performed excellently. The maximum power consumption was 872 W.

Power Consumption - (the whole system's power draw was measured - Peak value)



According to the specifications, the fan can run at a maximum speed of up to 1800 RPM. At loads between 600 W and 800 W, the fan runs very quietly, but above 900 W, the fan works harder to prevent components from overheating, and it produces a slightly louder noise. This is normal, and the Cooler Master V1000 1000W fan operates relatively quietly in everyday use.

4. Summary

Cooler Master's V-series power supplies include three models: 700W, 850W, and 1000W, all of which are 80 PLUS Gold certified. The V1000 is the most impressive, boasting a high-quality design and stable performance. Rated at over 90% efficiency, this PSU features a single +12V rail with up to 83A current, meeting most user needs.

Furthermore, the V-series utilizes Seasonic's new KM3 platform, and the components used in its design are top-of-the-line. Every V-series PSU features a full modular flat cable design, offering greater flexibility than standard cables. Nowadays, graphics cards aren't as noisy as vacuum cleaners, and users tend to pay attention to other noise sources in their equipment. However, the V1000 operates very quietly regardless of the load.

While 1000W isn't enough for ultra-high-end configurations like quad-SLI with a Geforce Titan card, it will be more than sufficient for a standard Crossfire or SLI setup.

In addition, you can refer to the article " Review of FSP 850W HYDRO PTM Series Active PFC Power Supply" to make the best choice for yourself.

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