Reaching for a more sustainable future

Lenovo | AMD

While the energy needs of IT keep growing, so does the need for sustainable solutions. By modernizing your IT infrastructure, you can not only help advance your sustainability goals – you can enhance performance and innovation for your business.

Say goodbye to older, energy-draining servers

The latest Lenovo ThinkSystem, ThinkAgile and ThinkEdge servers, powered by AMD EPYC™ processors, are among the world's most energy efficient servers[1], while providing outstanding performance, manageability and security.

Energy efficiency
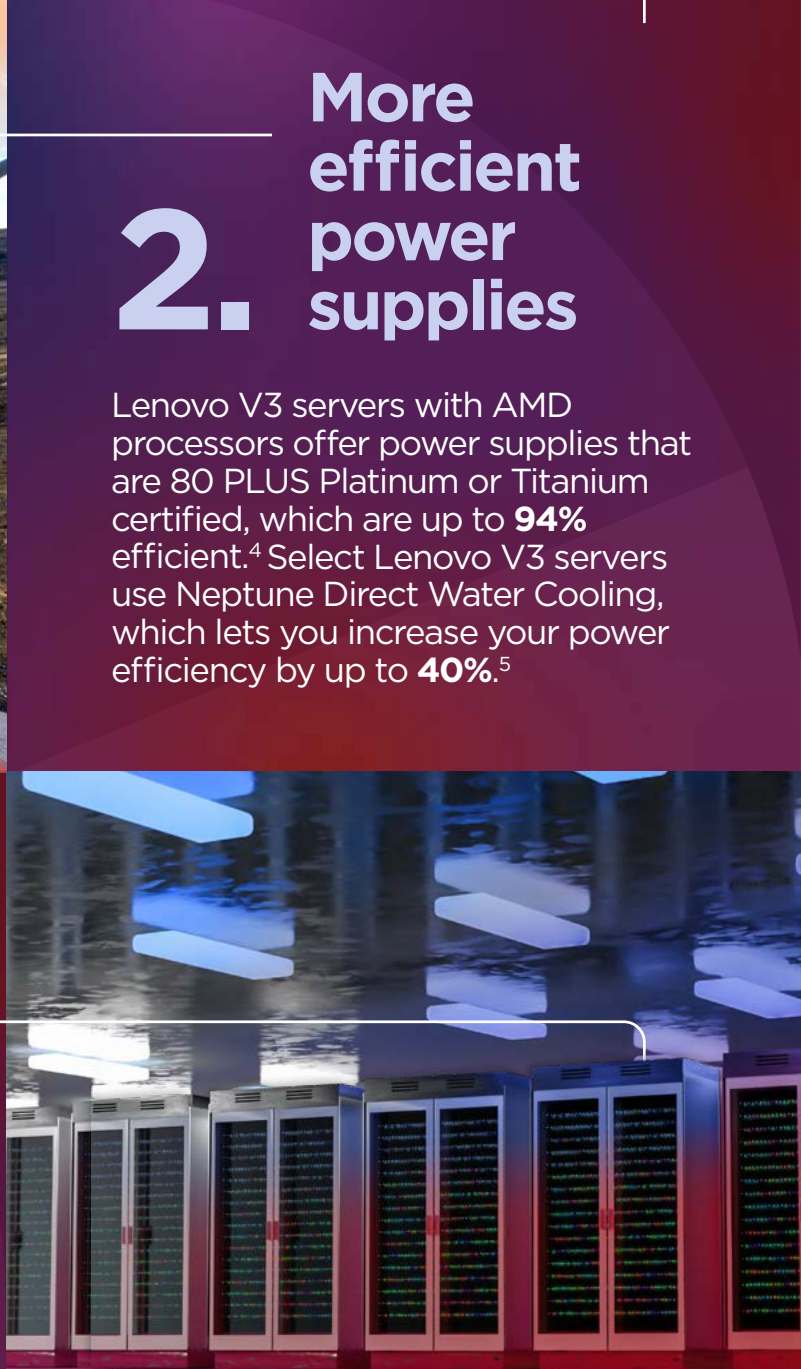
1. Leadership performance and efficiency

Lenovo servers with AMD processors offer an improvement of up to **98%** in memory streaming bandwidth[2] as well as **industry-leading performance** per watt.[3]

2. More efficient power supplies

Lenovo V3 servers with AMD processors offer power supplies that are 80 PLUS Platinum or Titanium certified, which are up to **94%** efficient.[4] Select Lenovo V3 servers use Neptune Direct Water Cooling, which lets you increase your power efficiency by up to **40%**.[5]

3. Water wins for cooling

Lenovo Neptune's 5th generation cooling **captures up to 100% of the system heat*** using up to 45°C water temperature.[6]

*depending on specific environment

4. Sustainable Product and Packaging Design

To support Lenovo's vision to achieve net-zero by 2050, we are designing for the circular economy, with innovative, sustainable product and packaging practices that reduce environmental impact and increase product efficiency. Our rack integration shipping methods for servers have reduced consumption per rack by 105 pounds of cardboard.

5. Knowledge is power

Energy management software offers real-time power monitoring and control, contributing to the ongoing efforts in curbing energy consumption.[7]

Make the choice that matters for your business and the planet, today and tomorrow.

Learn more

[1] See EPYCWR-683A, EPYCWR-683A, EPYCWR-684A, EPYCWR-685A, EPYCWR-952 at AMD EPYC World Records
[2] Lenovo servers with AMD processors offer an improvement of up to 98% in memory streaming bandwidth for Lenovo V3 AMD servers using DDR5 over Lenovo first generation AMD servers using DDR4, based on Lenovo internal testing comparing the memory bandwidth of Lenovo ThinkSystem V3 servers with AMD Genoa (2 channels of DDR5 @ 4800) to Lenovo ThinkSystem servers with AMD Milan (3 channels of DDR4 @ 3200).
[3] Lenovo SR665 V3 holds the #1 place on the industry standard SPECpower_ssj2008 performance/watt efficiency benchmark, as of 17Oct2023, 34,597 overall ssj_ops/watt. See https://spec.org/power_ssj2008/results/res2023q4/power_ssj2008-20230926-01323.html for result details. See http://www.spec.org for additional information. SPEC®, SPEC ACCEL®, SPEC CPU®, SPEC MPI®, SPEC OMP®, SPEC VIRT_SC®, SPEC VIRT®, SPECpwr™, SPECjbb®, and SPECpower_ssj™ are trademarks of the Standard Performance Evaluation Corporation (SPEC).
[4] https://www.clearesult.com/80plus/program-details#program-details-table
[5] https://lenovopress.lenovo.com/lp802-lenovo-thinksystem-sd665-v3-server
[6] https://lenovopress.lenovo.com/lp802-lenovo-thinksystem-sd665-v3-server
[7] https://support.lenovo.com/us/en/solutions/ht504642-lenovo-xclarity-energy-manager-lxem

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