Sustainability Without Compromise

Reduce energy consumption with Dell PowerMax 2500 and PowerMax 8500 storage

The world's most secure¹ mission-critical storage delivers massive performance paired with best in class sustainability.

Massive performance at scale

- Up to 2.8X more IOPS per watt¹
- Up to 2X faster performance⁴

Smaller energy bills

- 80% power savings per terabyte⁵
- Up to $207,000 electricity costs savings⁶

Smaller carbon footprint

- Up to 82% reduction in emissions² compared to previous generation
- Up to 43,000 gallons (162.8 liters) of gas equivalent CO₂ reduction⁹

Smaller data center footprint

- 5X capacity per kVA¹²
- 5:1 data reduction guarantee backed by the Dell Future-Proof Program¹¹
- Up to 14X more storage capacity per rack unit¹²

Advance your sustainability and business goals with Dell PowerMax storage.

Learn more at Dell.com/IT-Sustainability

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¹ Based on Dell's internal analysis of cybersecurity capabilities of PowerMax versus cybersecurity capabilities of competitive mainstream arrays supporting open systems and mainframe storage, April 2023.

² Based on Dell's analysis of published product specs and features impacting power usage of PowerMax versus competitive mainstream arrays supporting open systems and mainframe storage operating at 8PBe, June 2023.

³ Based on Dell's internal testing comparing IOPS per watt for PowerMax 2500 compared with PowerMax 2000 using the 8K random writes workload. Performance per watt will vary, August 2023.

⁴ Based on Dell's internal testing using the Sequential Read Hits (128K) GB-per-second benchmark and IOPS per FC port benchmarks (within a single array) comparing PowerMax 8500 to PowerMax 8000. Actual performance will vary, April 2023.

⁵ Based on Dell's internal analysis comparing power (kVA) per effective terabyte of the PowerMax 2500 compared with the PowerMax 2000, April 2023.

⁶ Based on Dell's internal analysis of total electricity cost savings over five years operating PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW) using $.21 per kWh (U.S. EIA April 2023 report, California Commercial rate). Actual cost savings will vary, July 2023.

⁷ Based on Dell's internal analysis of total CO₂ emissions over five years for PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW). Calculations are from the U.S. EPA CO₂e formula. Actual CO₂e reduction will vary, July 2023.

⁸ Based on Dell's internal analysis of converting CO₂e reduction that can equal the energy required to power up to 74 average U.S. homes for a year. The reduction is from operating PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW) over five years. Calculations from EIA 2020 Average Annual Outlook Report. Actual CO₂e reduction will vary, July 2023.

⁹ Based on Dell's internal analysis of converting CO₂e reduction that can equal the consumption of gasoline. The reduction is from operating PowerMax 2500 at 8PBe (5kW) over five years versus six PowerMax 2000s at 8PBe (27.5kW). Calculations are based on the U.S. EPA gallons-of-gas-consumed formula. Actual CO₂e reduction will vary, July 2023.

¹⁰ Based on Dell's internal analysis comparing the effective capacity per kVA of the PowerMax 2500 compared with the PowerMax 2000, April 2023.

¹¹ Based on Dell's Future-Proof program that offers 5:1 data reduction guarantee based on PowerMax data reduction tools (dedupe and data compression) for open systems storage. Actual data reduction rates may vary. See terms and conditions for details at https://www.delltechnologies.com/asset/enus/products/storage/legal-pricing/future-proof-drguarantee-tc.pdf, August 2023.

¹² Based on Dell's internal analysis comparing effective storage capacity per rack unit (1.75") of the PowerMax 2500 compared with the PowerMax 2000. Actual storage capacities will vary, April 2023.