



Energy Star 2.1 Certification for NetApp Products

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As part of our commitment to preserving natural resources, NetApp partners with the U.S. Environmental Protection Agency (EPA) and other government agencies to encourage energy efficiency in storage systems. NetApp is pleased to be a founding member of the EPA's ENERGY STAR program for data center storage and to have many of our storage systems certified as ENERGY STAR products. Find out more about the EPA's [ENERGY STAR program for data center storage](#).

Many of NetApp's data storage systems have earned ENERGY STAR certification for their proven energy efficiency. Storage efficiency translates into energy efficiency by reducing energy consumption. Every unused kilowatt of energy saves almost two kilowatts of energy, by avoiding the cooling required to counteract each kilowatt's BTUs of waste heat.

NetApp products are designed to lower energy consumption through technologies that combine high storage efficiency with high performance for meeting demanding data center requirements; energy-efficient power supplies; and efficient packaging that reduces the energy needed for raw materials and transportation.

The ENERGY STAR program for data center storage applies to configurations that fall within ranges based on:

- Number of drives
- Verified storage efficiency measurement (COMS)
- System redundancy
- Storage protection
- Nondisruptive serviceability

NetApp AFF/ FAS and E-Series data storage systems have earned ENERGY STAR 2.1 certification for high performance and efficiency. Both NetApp AFF/FAS and E-Series systems are deployed across the globe to tackle the most demanding workloads. They are designed to meet extreme performance challenges while delivering performance efficiency by maximizing each storage component. They deliver high performance per watt consumed or BTU generated. The result: very fast, dense, and efficient systems that deliver high performance (GB/s or IOPS) per watt consumed or BTU (heat) generated, which leads to savings of both production and ongoing operating resources.

All ENERGY STAR 2.1 certified systems are dual power/cooling/controllers, FDE or non-FDE drives of any capacity, with any host interface option. NetApp has certified the most common configurations for certified models to meet the core ENERGY STAR 2.1 requirements. The following configurations are ENERGY STAR 2.1 certified:

Model Number	Product Type	Capacity Optimized Method Available (COMs)	PSU Model Name
EF600	Disk Set Online 2	Delta Snapshots	DPS-160AB-18 B
E2812	Disk Set Online 3	Thin Provisioning	TDPS-900AB A
E2860	Disk Set Online 3	Thin Provisioning	Delta TDPS-2325AB
E2824	Disk Set Online 3	Thin Provisioning	TDPS-900AB A
EF300	Disk Set Online 2	Delta Snapshots	DPS-160AB-18 C
AFF A250	Disk Set Online 3	Thin Provisioning, Data Deduplication	DPS-160AB-18 C
FAS2720	Disk Set Online 3	Thin Provisioning, Data Deduplication	TDPS-900AB A

In addition to Storage Systems, NetApp has also obtained ENERGY STAR for Servers certification for the HCI H615C Compute Node Family Computer Servers.

