# NetApp®

Updated February 2026

Product type

    Storage Shelf sold as part of a storage system

Manufacturer's name, registered trade name, and registered address

    NetApp

    NetApp, Inc.

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    San Jose, CA 95128
    United States

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| Product model number | Marketing model Number |
|---|---|
| NAJ-1801 | NX224 |

First year of manufacture

    2025

PSU efficiency until January 1, 2025

| Load percentage | TDPS-1600GB-A | DCJ-16002-06 |
|---|---|---|
| 10% | 90.43% | 91.69% |
| 20% | 94.68% | 94.77$ |
| 50% | 96.09% | 96.22% |
| 100% | 95.23% | 94.46% |
| Average efficiency | 95.33% | 95.12% |
| Power Factor at 50% load | 0.990 | 1.000 |

PSU efficiency beginning January 1, 2026

| Load percentage | PS-2202-10E PSU efficiency | DCJ20002-03 |
|---|---|---|
| 10% | 93.48% | 91.54% |
| 20% | 95.52% | 94.68% |
| 50% | 96.12% | 96.17% |
| 100% | 94.11% | 94.20% |
| Average efficiency | 95.25% | 95.02% |
| Power Factor at 50% load | 0.9944 | 0.9972 |

| Load percentage | TDPS-1600NB A PSU efficiency | |
|---|---|---|
| 10% | 90.41% | |
| 20% | 94.69% | |
| 50% | 96.32% | |
| 100% | 95.48% | |
| Average efficiency | 91.14% | |
| Power Factor at 50% load | 0.9908 | |

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Declared ASHRAE operating condition class

| ASHRAE rating | A4 |
|---|---|
| Allowable operating temperature range | 5 to 45 degrees C |
| Recommended operating range | 18 to 27 degrees C |
| Allowable operating relative humidity | -12$^\circ$C DP and 8% to 24$^\circ$C DP and 90% |
| Recommended operating relative humidity | -9$^\circ$C DP to 15$^\circ$C DP and 60% |
| Maximum Dew Po9int | 24 |
| Maximum rate of change ($^\circ$C/hr) | 5/20 |

Material ease of disassembly for repair or reuse

E-Series: https://docs.netapp.com/ess-11/index.jsp in the System maintenance tab

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Neodymium in HDDs

      All 10K RPM and 15K RPM drives have less than 5 g

      All 7200 RPM drives have between 5g and 25g

Cobalt in Li-Ion Batteries

      All Li-Ion Cells have less than 5g

      All Li-Ion Battery Packs have between 5g and 25g

Secure data deletion information: E-series

Storage Shelf must be installed as part of a storage system.

E-series secure data deletion capability is provided by a Python script which will issue commands appropriate for the drives in the array configuration to eliminate all user data.
Minimum SANtricity OS (controller software) level required is 11.70.1.

The script can be downloaded at this location:
https://mysupport.netapp.com/site/products/all/details/eseries-santricity/downloads-tab/download/62736/SecDel2020/downloads

To run the script, a host (Linux or Windows) is required, with the following connectivity and components:
- Network connectivity to the array
- Python 3.6 with the 'requests' library

Secure data deletion information: FAS and AFF

Storage Shelf must be installed as part of a storage system.

      Security Hardening Guide for NetApp ONTAP 9 (page 18)

      Starting with ONTAP 9.4, you can use the secure-purge feature with advanced privilege to nondisruptively "scrub" data on NVE-enabled volumes. Scrubbing data on an encrypted volume ensures that it cannot be recovered from the physical media. The following command securely purges the deleted files on vol1 on SVM vs1: cluster1::> volume encryption secure-purge start -vserver vs1 -volume vol1 Starting with ONTAP 9.7, NAE and NVE are enabled by default. If the VE license is in place, either OKM or external key managers are configured, and NSE is not used, then NAE and NVE are enabled by default. NAE volumes are created by default on NAE aggregates, and NVE volumes are created by default on non-NAE aggregates. This can be overridden by entering the following command: cluster1::*> options -option-name encryption.data_at_rest_encryption.disable_by_default true For more information about NSE, NVE, NAE, OKM, and external KMIP servers, see NetApp Encryption Power Guide in the ONTAP 9 Documentation Center.

      Clean up data spills quickly with NetApp secure_purge - analyst review

Firmware and Security Updates

      Go to:

      **https://mysupport.netapp.com/site/products/all**
      Register, then search for Firmware or Security for the product.