



Updated August 2023

Product type

Storage controller

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

NetApp
NetApp, Inc.
3060 Olsen Drive
San Jose, CA 95128
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Product model number

NAF-1602

Marketing model Number

FAS9500, FAS9000, AFF A900, AFF A700

First year of manufacture

2016

PSU efficiency

Load percentage	DPS-1600AB-4 A PSU efficiency	TDPS-2000KB A
10%	90.94%	92.65%
20%	93.49%	95.09%
50%	94.28 %	96.23%
100%	91.94 %	95.15%
Average efficiency	93.23%	95.49%
Power Factor at 50% load	0.990	0.9875

Declared ASHRAE operating condition class: FAS9000, AFF A700

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

Declared ASHRAE operating condition class: FAS9500, AFF A900

ASHRAE rating	A2
Operating temperature range	10 to 35 degrees C
Recommended operating range	18 to 27 degrees C
Allowable operating relative humidity	-12°C DP and 8% to 21°C DP and 80%
Recommended operating relative humidity	-9°C DP to 15°C DP and 60%
Maximum Dew Point	21
Maximum rate of change (°C/hr)	5/20



Secure data deletion information: FAS and AFF

[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 - analst review](#)

Material ease of disassembly for repair or reuse

FAS and AFF: <https://docs.netapp.com/platstor/index.jsp>

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

Firmware and Security Updates

Go to:

<https://mysupport.netapp.com/site/products/all>

Register, then search for Firmware or Security for the product.