



Updated August 2023

Product type

Storage controller in a Storage Shelf

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-1501  
NAF-1502

Marketing model Number

FAS2650, AFF A200, AFF A220, FAS2750, AFF C190, AFF A150  
FAS2720, FAS 2820

First year of manufacture

2016

PSU efficiency

Load percentage	DCJ9133-01 PSU efficiency	TDPS-900AB A PSU efficiency
10%	89.50%	81.74%
20%	92.93%	91.75%
50%	94.37%	94.18%
100%	92.71%	92.90%
Average efficiency	93.84%	92.94%
Power Factor at 50% load	0.980	0.980

Declared ASHRAE operating condition class FAS2650, AFF A200, AFF A220, FAS2750, AFF C190, FAS2720, AFF A150

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°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 Po9int	24
Maximum rate of change (°C/hr)	5/20

Declared ASHRAE operating condition class: FAS 2820

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 Po9int	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.