Product type
   Storage controller

Manufacturer’s name, registered trade name, and registered address
   NetApp
   NetApp, Inc.
   1395 Crossman Ave.
   Sunnyvale, CA 94089
   United States
   +1 408-822-6000

Product model number   Marketing model number
   NAF-1602   FAS9000, AFF A700

First year of manufacture
   2016

PSU efficiency

<table>
<thead>
<tr>
<th>Load percentage</th>
<th>DPS-1600AB-4 A PSU efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>90.94%</td>
</tr>
<tr>
<td>20%</td>
<td>93.49%</td>
</tr>
<tr>
<td>50%</td>
<td>94.28 %</td>
</tr>
<tr>
<td>100%</td>
<td>91.94 %</td>
</tr>
<tr>
<td>Average efficiency</td>
<td>93.23%</td>
</tr>
<tr>
<td>Power Factor at 50% load</td>
<td>0.990</td>
</tr>
</tbody>
</table>

Declared ASHRAE operating condition class

<table>
<thead>
<tr>
<th>ASHRAE rating</th>
<th>Operating temperature range</th>
<th>Recommended operating range</th>
<th>Allowable operating relative humidity</th>
<th>Recommended operating relative humidity</th>
<th>Maximum Dew Point</th>
<th>Maximum rate of change (°C/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3</td>
<td>5 to 40 degrees C</td>
<td>18 to 27 degrees C</td>
<td>-12°C DP and 8% to 24°C DP and 85%</td>
<td>-9°C DP to 15°C DP and 60%</td>
<td>24</td>
<td>5/20</td>
</tr>
</tbody>
</table>

Secure data deletion information: FAS and AFF


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

Material ease of disassembly for repair or reuse

FAS and AFF: [https://docs.netapp.com/platstor/index.jsp](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