DELL EMC
POWERPROTECT DP
SERIES APPLIANCES

SIMPLE, EFFICIENT AND AGILE DATA PROTECTION AT A LOW COST-TO-PROTECT. GUARANTEED.

The DP series, the next generation of the Integrated Data Protection Appliance, simplifies deployment and management, while delivering powerful, enterprise-class data protection capabilities for mid-size and enterprise organizations at a low cost-to-protect than competing solutions.

It is an integrated solution that offers complete backup, replication, recovery, deduplication, instant access and restore, search & analytics, seamless VMware integration—plus, cloud readiness with disaster recovery and long-term retention to the cloud—all in a single appliance.

The DP series delivers a low cost-to-protect, is guaranteed under the Future-Proof Program and is part of the Dell Technologies APEX program.

<table>
<thead>
<tr>
<th>Specifications</th>
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</table>

Table 1. DP series Performance and Capacity

<table>
<thead>
<tr>
<th>Features</th>
<th>DP4400</th>
<th>DP5900</th>
<th>DP8400</th>
<th>DP8900</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM THROUGHPUT¹</td>
<td>Up to 9 TB/hr</td>
<td>Up to 33 TB/hr</td>
<td>Up to 57 TB/hr</td>
<td>Up to 94 TB/hr</td>
</tr>
<tr>
<td>MAXIMUM LOGICAL CAPACITY¹,²</td>
<td>4.8 PB</td>
<td>18.7 PB</td>
<td>49.9 PB</td>
<td>65 PB</td>
</tr>
<tr>
<td>W/ CLOUD TIER</td>
<td>14.4 PB²</td>
<td>56.1 PB</td>
<td>149.7 PB</td>
<td>195 PB</td>
</tr>
<tr>
<td>MAXIMUM USABLE CAPACITY</td>
<td>8 to 96 TB³</td>
<td>96 to 288 TB</td>
<td>192 to 768 TB</td>
<td>576 to 1 PB</td>
</tr>
<tr>
<td>W/ CLOUD TIER</td>
<td>Up to 288 TB²</td>
<td>Up to 864 TB</td>
<td>Up to 2.3 PB</td>
<td>Up to 3 PB</td>
</tr>
<tr>
<td>PROCESSOR</td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
</tr>
<tr>
<td>DRIVE TYPE</td>
<td>SAS 12 TB</td>
<td>SAS 4 TB</td>
<td>SAS 8 TB</td>
<td>SAS 8 TB</td>
</tr>
<tr>
<td>BUILT- IN NETWORKING</td>
<td>8x RJ45 or 8x SFP Optical links (only two req’d)³</td>
<td>4x40GbE Customer uplinks; Each Quad SFP port can be split to 4x10GbE uplinks; Only two required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<th>DP8400</th>
<th>DP8900</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT (LBS)</td>
<td>72.8 lbs.</td>
<td>450 lbs.</td>
<td>734 lbs.</td>
<td>846 lbs.</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>17.09 x 28.17 x 3.42 (inches WDH)</td>
<td>434 x 715.5 x 86.8 (mm WDH)</td>
<td>40U rack Height: 75 in (190.8 cm); Width: 24.0 in (61.1 cm); Depth: 39.0 in (99.2 cm)</td>
<td></td>
</tr>
<tr>
<td>POWER (100-120 / 200-240 V ≈ 50/60HZ)</td>
<td>475 VA (MAX @ 35°C)</td>
<td>Up to 2,830 VA (200-240 V only)</td>
<td>Up to 5,480 VA (200-240 V only)</td>
<td>Up to 7,250 VA (200-240 V only)</td>
</tr>
<tr>
<td>THERMAL RATING (BTU/HR)</td>
<td>1,620</td>
<td>9,300</td>
<td>17,800</td>
<td>23,400</td>
</tr>
<tr>
<td>OPERATING TEMPERATURE / ALTITUDE</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
</tr>
<tr>
<td>NON-OPERATING (TRANSPORTATION) TEMPERATURE</td>
<td>-40°C to +65°C (-40°F to +149°F)</td>
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<td>-40°C to +65°C (-40°F to +149°F)</td>
</tr>
<tr>
<td>OPERATING HUMIDITY</td>
<td>10% to 80% relative humidity with 29°C (84.2°F), maximum dew point</td>
<td>20% to 80% non-condensing</td>
<td>20% to 80% non-condensing</td>
<td>20% to 80% non-condensing</td>
</tr>
</tbody>
</table>

**DP series Rack**

**Power configuration**

DP4400: Two single-phase inlet connections. All power connections redundant.

All other systems: Single phase is standard, optional 3-phase. For rack 1, four power inlet connections for single phase. Two power inlet connections for 3-phase. For rack 2, if required, two power inlet connections. All power connections redundant.

**Plug types**

Single phase: NEMA L6-30p or IEC 60309 332P6

3-phase: Consult your local Dell representative

**Power requirements**

Refer to table above

**AC protection**

30A site circuit breaker on each power domain

**Dimensions**

40U available rack capacity

Height: 75 in (190.8 cm); Width: 24.0 in (61.1 cm); Depth: 39.0 in (99.2 cm)

Weight: 380 lbs. (173 kg) when empty
**DS60 EXPANSION SHELF**

**External interface (host/expansion)**
Quad 8 lane 12 Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC). Half of each port is blocked allowing the use of standard mini-SAS-HD connectors. One port is used for the host connection and the other is used for expansion. The host controller runs at 12 Gb/s to the DS60.

**SAS cable length**
Up to 5 meters

**Disk drives**
60-drive bays per DS60 expansion shelf, support low profile, one inch high, 3.5-inch form factor drives
SAS (12 Gb/s), 4 TB, 7200 RPM

**Dimensions**
Height: 8.75 in (22.23 cm) 5U (4U plus 1U cable management tray)
Width including rails: 17.50 in (44.45 cm)
Depth (chassis only): 34.5 in (87.63 cm)
Maximum depth (fully configured): 36.4 in (92.46 cm)
Weight: 225.0 lbs. (90.7 kg) (with 60 HDD installed)

**Operational (included in information above)**
Power: 980 VA or 931W (200-240V ~, 47 to 63 Hz)
Thermal Rating: 3177 BTU/hr.

**Operating:**
Ambient temperature: 41° F to 104° F (5° C to 40° C)
Temperature gradient: 18° F/hr. (10° C/hr.)
Relative humidity extremes: 20% to 80% noncondensing
Elevation: -50 to 7500 ft. (-16 to 2300 m)

**Non-Operating (Transportation):**
Ambient temperature: -40° F to 149° F (-40° C to 65° F)
Temperature gradient: 45° F/hr. (25° C/hr.)
Relative humidity: 10% to 90% noncondensing
Elevation: -50 to 35,000 ft. (-16 to 10,600 m)
ES40 EXPANSION SHELF

External interface (host/expansion)
Dual 4 lane 12 Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC)—one for host and one for expansion

SAS cable length
Up to 5 meter

Disk drives
15-drive bays per ES30 expansion shelf, support low profile, one inch high, 3.5-inch form factor drives
SAS (12 Gb/s), 3TB, 7200 RPM

Dimensions
Height: 5.25 in (13.34 cm)
Width: 19.0 in (48.3 cm)
Depth: 14.0 in (35.56 cm)
Weight: 68 lbs (30.8 kg)

Operational (included in information above)
Power (VA): 280VA or 235W, (100-240V ~, 47 to 63 Hz)
Thermal Rating: 800 BTU/hr

Operating Temperature:
Ambient temperature: 41° F to 104° F (5° C to 40° C)
Temperature gradient: 18° F/hr (10° C/hr)
Relative humidity extremes: 20% to 80% noncondensing
Elevation: -50 to 7500 ft (-16 to 2300 m)

Non-Operating (Transportation) Temperature:
Ambient temperature: -40° F to 149° F (-40° C to 65° F)