

EMC DL6000 Series Disk Library

Specifications

Disk Library Connectivity

	DL6100	DL6300
SAN Client Ports	8	16
Array Ports	10	16
Backend Ports	6	16
GbE Ports	12	24

Notes: The backend ports may be configured, if desired, as front-end ports.
 Multiple RAID groups are distributed across redundant loops to maximize bandwidth to disks.
 All 400 MB/s FC ports.
 Failover from each storage processor to both Fibre Channel loops is possible.

Drive Interface

Disk Drives	500 GB (7,200)
Capacity	500 GB
Form Factor	3.5"
Height	1.0"
Rotational Speed	7,200 rpm
Interface	3.5 Gb/s FC
Internal Data Rate (Mb/s)	470-944
Data Buffer	16 MB

Transfer rates	
Buffer to/from Media	31-64 MB/s
SP to/from Buffer	300 MB/s
Average Seek	8.2 ms Read 9.2 ms Write
Rotational Latency	4.17 ms

RAID Protection Items

DL6100 RAID 5: Data Striped on Four or Eight Hypervolumes
 DL6300 RAID 1: Mirrored Pair of Two Hypervolumes

Maximum Capacities	DL6100	DL6300
Number of System Bays (maximum)	1	1
Number of Storage Bays (maximum)	6	10
Number of Disk Library Server Bays (maximum)	1	1
Number of Drives	1440	2400
Usable Space (TB)	615	584

Dimensions (approximate)*

Model Solutions (minimum configurations)	Height (inches)	Width (inches)	Depth (inches)	Weight (lbs)
System Bay	76.66	24.02	41.16	1,626
Storage Bay	76.66	30.02	41.88	2,422
Disk Library Server Bay	76.66	24.02	41.16	713

An additional 18 inches (45.7 cm) is required for ceiling/top clearance.



Power*

	System Bay	Storage Bay	DL 6100 Disk Library Server Bay	DL6300 Disk Library Server Bay
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Input Voltage (VAC)	200-240 VAC +/- 10% single phase			
Circuit Breaker (Amps), North America	50	50	50	50
Circuit Breaker (Amps), International	32	32	32	32
Power Consumption KVA (maximum)	6.4	6.1	0.9	1.8
Heat Dissipation Btu/hr (maximum)	21,850	19,800	3,050	6,100
AC Power Connection	Two per bay	Two per bay	Two per bay	Two per bay

*Weight, power, and cooling are typical for a full configuration (500 GB LC-FC drives).
Circuit breakers internal on each power branch.

AC Power Capability*

40U Cabinet	
AC Voltage	200-240 VAC +/- 10%
Frequency	47-63 Hz
Power Configuration	Two power domains (base and extended), each redundant
Power Inlet Count	Two plugs for base model, four plugs for extended configuration
Plug Type	NEMA L6-30P or IEC309-332 P6 or IP57 (Australia)
Input Power Capacity	4,800VA @200VAC, 5,760VA @240VAC (w/two plugs) 9,600VA @200VAC, 11,520VA @240VAC (w/four plugs)

Operating Environment

Temperature	50-90 degrees F (10-32 degree C)
Relative Humidity	20% to 80% (non-condensing)
Altitude	7,500 ft. (2,286 m) @ 90 degrees F (32 degrees C) maximum 10,000 ft. (3,048 m) @ 1.1 degrees F derating per 1,000 ft.

Electromagnetic Emissions and Immunity

FCC, part 15b, Class A
EN55022 Class A
CE Mark—European EMC Directive and Low Voltage Directive Requirements
VCCI V-1 Class A (Japan)
ICES-003 Class A (for Canada)
CAC-Tick, Class A (for Australia/New Zealand)
EN55024 Immunity, ITE
BSMI-CNS 13438, Class A (for Taiwan)
RRL-MIC (Korea)
UL 60950-1—Safety of Information Technology Equipment including Electrical Business Equipment
CAN/CSA 22.2—Safety of Information Technology Equipment including Electrical Business Equipment
IEC 60950-1—Safety of Information Technology Equipment including Electrical Business Equipment
EN 60950-1—Safety of Information Technology Equipment including Electrical Business Equipment
BSMI 14336 Information Technology Equipment—Safety—General Requirements

Safety

UL 60950; CSA C22.2-60950; IEC 60950, TUV, GOST, IRAM

Quality Standard

Manufactured under an ISO 9000-registered quality system

*The data associated with each EMC Disk Library model in the Dimensions and Power tables includes the Disk Library engine and associated EMC CLARiiON® CX series array. To determine the correct weight, rack space, power consumption, and heat dissipation, each of those values must be increased based on the number of ATA disk expansion chassis included in the configuration.



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Specification Sheet
H2784