

EMC DL4000 Series Disk Library

Specifications



Disk Library Connectivity

	DL4106	DL4206	DL4406
Front-end Ports	4	8	8
Back-end Ports	4	8	8
Replicaton Ports	4	8	8

Notes: The back-end 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	1 TB (7,200)	1 TB (5,400)
Formatted Capacity (520 bytes/sector)	931.51 GB	931.51 GB
Form Factor	3.5"	3.5"
Height	1.0"	1.0"
Rotational Speed	7,200 rpm	5,400 rpm
Interface	SATA	SATA
Data Buffer	32 MB	32 MB

Transfer rates

Buffer to/from Media	42–85 MB/s	84 MB/s sustained
SP to/from Buffer	300 MB/s	300 MB/s
Average Seek	8.2 ms Read	8.9 ms Read
	9.2 ms Write	
Rotational Latency	4.17 ms	n/a

Dimensions (approximate)*

Model	EIA Units	Height (inches)	Width (inches)	Depth (inches)	Weight (lbs)
DL4100	17	29.75	18.98	28.05	426
DL4200	22	38.5	18.98	28.05	481
DL4400	34	59.5	18.98	28.05	852
Add-on DAE-ATA	3	5.25	17.72	14	68
RACK-40U-60		75	24	36	380

Model	Height (cm)	Width (cm)	Depth (cm)	Weight (kg)
DL4100	75.65	48.26	71.33	193.6
DL4200	97.90	48.26	71.33	218.6
DL4400	151.30	48.26	71.33	387.3
Add-on DAE-ATA	13.33	45.00	35.60	30.9
RACK-40U-60	190.80	61.10	91.60	172.7

Power

	DL4106	DL4206	DL4406	Add-on DAE-ATA (7,200)	Add-on DAE-ATA (5,400)
Frequency	47–63 Hz	47–63 Hz	47–63 Hz	47–63 Hz	47–63 Hz
AC Voltage	200–240 VAC +/- 10% single phase				
Power Factor (typical)	0.98	0.98	0.98	0.95	.96
Power Consumption Watts (maximum)	2,000	2,630	4,010	387	255
Power Consumption Watts (typical)	1,450	1,950	2,890	357	235
Heat Dissipation BTU/hr (maximum)	6,830	8,980	13,690	1,325	870
Heat Dissipation BTU/hr (typical)	4,950	6,660	9,870	1,220	804

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 per cabinet
Plug Type	NEMA L6-30P or IEC309-332 P6 or IP57 (Australia)
Input Power Capacity	4,800 VA @200 VAC, 5,760 VA @240 VAC (w/two plugs) 9,600 VA @200 VAC, 11,520 VA @240 VAC (w/four plugs)
AC Protections	20 A circuit breakers internally on each power branch

Operating Environment

Temperature	50–104 degrees F (10–40 degree C)
Temperature Gradient	10 degrees C/hr
Relative Humidity	20% to 80% (non-condensing)
Altitude	8,000 ft. (2438.4 m) @ 104 degrees F (40 degreesC) max. 10,000 ft. (3048 m) @ 98.6 degrees F (37 degrees C) max.

Electromagnetic Emissions and Immunity

FCC Class A
EN55022 Class A
CE Mark
VCCI Class AA (for Japan)
ICES-003 Class A (for Canada)
AZ/NZS, CISPR22, Class A (for Australia/New Zealand)
EN55024 Immunity, ITE
BSMI Class A (for Taiwan)
MIC (Korea)

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 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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