

EMC DISK LIBRARY FOR MAINFRAME

The EMC® Disk Library for mainframe addresses the challenges of the mainframe data center and delivers industry-leading performance and availability to tape operations, while working seamlessly with current host software and applications.

The EMC Disk Library for mainframe system is available in two configurations. The EMC DLm6000 is the EMC flagship mainframe solution in terms of scalability and performance. The EMC DLm120 is designed for users who have less need for massive scalability, or who do not require deduplication storage.

Disk Library for mainframe combines mainframe tape emulation with RAID 6 protected disk storage, hot-standby disks, and hardware compression, with the ability to combine both primary and deduplication storage to meet enterprise mainframe data center tape replacement requirements. All are essential capabilities to provide your enterprise with a high-capacity and performance-oriented mainframe storage solution in the smallest possible footprint.

Disk Library for mainframe connects directly to IBM mainframes via Virtual Tape Engines (VTE) using FICON channels, and it appears to the mainframe operating system as standard IBM tape drives. All tape commands are supported by the Disk Library for mainframe and respond as real tape drives, so existing work processes and applications can run without any modifications. With Disk Library for mainframe, the retrieval time of information is reduced from minutes via tape to just seconds via disk.

SPECIFICATIONS

DISK LIBRARY FOR MAINFRAME CONNECTIVITY

Type: Multi-mode or single-mode 4Gb FICON

Number of VTEs (min/max): DLm6000 2/6 - DLm120 1/2

Number of FICON ports (min/max): DLm6000 4/12 - DLm120 2/4

DRIVE INTERFACE

Disk Drives: 2 TB

Form Factor: 3.5"

Height: 1.0"

Rotational Speed: 7,200 rpm

Interface: SAS (EMC VNX7500™) or SATA II (DD890)

Data Buffer: 32 MB

Power Watts (maximum): 12.15



DIMENSIONS (APPROXIMATE)*

Model	EIAUnits	Height (in/cm)	Width (in/cm)	Depth (in/cm)	Max. Weight (lbs/kgs)
DLm6000					
VTEC Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	998/453.6
VNX Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,330/603.3
Storage Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,400/636.4
Data Domain Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	998/453.6
DLm120					
	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,269/576.8

*When trim kit is unattached, system bay height is 74.90 inches (190.25 cm).

POWER

	DLm6000				DLm120
	VTEC Bay	VNX Bay	Storage Bay	Data Domain Bay	
Frequency	50–60 Hz	50–60 Hz	50–60 Hz	50–60 Hz	50–60 Hz
AC Voltage	200–240 VAC +/- 10% Single-phase				
Power Consumption Watts (maximum)	3,200	5,720	4,040	2,928	3,600
Heat Dissipation BTU/hr (maximum)	11,000	17,200	13,200	11,800	11,500

The data about weight and power is based on fully configured systems and includes VTEs, disk drives, switches, and all other storage array components. The exact power and weight requirement is based on the actual Disk Library for mainframe configuration based on the number of VTEs and capacity.

AC POWER CAPABILITY

40U Cabinet

AC Voltage	200–240 VAC +/- 10%
Frequency	50-60 Hz
Power Configuration	Two power domains (VTEC, NAS storage and deduplication storage), each redundant
Power Inlet Count	DLm6000 VTEC, DLm6000 storage and DLm120 bays all require two; DLm6000 VNX bays require four
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	30 A circuit breakers internally on each power branch

OPERATING ENVIRONMENT

Temperature	50–90 degrees F (10–32 degree C)
Temperature Gradient	10 degrees C/hr
Relative Humidity	20% to 80% (non-condensing)
Operating Altitude(32 degrees C)	7,500 ft. (2,286 m) @ 90 degrees F (32 degrees C) max.
Operating Altitude(maximum)	10,000 ft. (3,048 m) 1.1 degrees F (0.611 degrees C) derating per 1,000 ft. (304.8 m)

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

SAFETY

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

QUALITY STANDARD

Manufactured under an ISO 9000-registered quality system.

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller, or visit us at www.EMC.com.

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