

FlashBlade//S Technical Specifications

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Chapter 1

Overview

FlashBlade//S is the next-generation unified fast file and object (UFFO) storage system that incorporates the latest advances in technology components and delivers significantly higher performance and capacity. The modular design of FlashBlade//S disaggregates the compute resources from the storage, so it is simple to reconfigure and efficiently scale for capacity, performance, or both.

Features

FlashBlade//S features new hardware designs:

- Chassis
 - The FlashBlade//S chassis is 5RU high and contains bays for mounting ten blades. Fully populated with high-density blades, a chassis holds up to 3PB of raw capacity with headroom for future density increases. The 5RU chassis height accommodates the new blades and improves airflow to efficiently dissipate heat.
 - The chassis midplane distributes power and contains dual Ethernet links capable of operating at 100 Gbps to each blade. Blades connect to two Fabric I/O Modules (FIOMs) on the midplane. The FIOMs contain Ethernet switches that connect blades to the client network, or in multi-chassis systems, to eXternal Fabric Modules (XFM-8400/EFM-3200e).
 - The chassis contains four AC or DC power supply units (PSUs), each rated at 2,000 watts. The PSUs are “2+2 redundant”—any two of them can provide the chassis’ maximum rated power of 4,000 watts, anticipating the greater demands of future components.
- Blade
 - The blades contain CPUs, NICs, DRAM, and four DirectFlash Module (DFM) mounting slots. Blades use NVMe over on-board PCIe to communicate with their DFMs. Blades operate with up to four DFMs installed. All blades in the chassis must be configured with the same number of DFMs in each blade.
 - Blade models can be configured for entry-level scale-out flash storage (//S100 single-chassis equipped with 18TB or 37TB DFMs) or elevated with performance-optimized //S500 blades equipped with 24, 48, and 75TB DFMs. For a more balance setup, capacity-optimized 37TB or 48TB DFMs and denser (75TB) DFMs are also available with //S200 and //S500 configurations.

- Systems can be configured for applications from the very read-intensive (e.g., artificial intelligence and machine learning) to those requiring very high capacity (e.g., backup and archiving).
- The blade design isolates failure domains. A failed DFM can be replaced from the chassis front without affecting its blade's ability to function. As a temporary workaround until the spare blade is made available, DFMs can be relocated to available/empty bays on different blades in a system to minimize the operational impact of recovering from blade failures or replacements.
- **eXternal Fabric Modules**
 - A pair of eXternal Fabric Modules (XFM-8400/EFM-3200e) available only for multi-chassis configurations interconnects all chassis and connected host servers.
 - 8 x 10, 25, 40, or 100 Gbps QSFP28/QSFP+ or 200 Gbps QSFP56 (only supported on XFM-8400) or 400Gbps QSFP-DD DR4 (only supported with XFM-8400) optical transceivers are available for connecting to client network on each XFM module.
 - Maximum total potential bandwidth between FlashBlade//S system and clients is 6400Gbps/ 6.4Tbps with XFM-8400 and 400G QSFP-DD DR4 optics.
- **Networking**
 - FlashBlade//S chassis uses dual FIOMs to interconnect blades and to connect them to the external environment. The FIOMs contain state-of-the-art Ethernet switches with a total of 800 Gbps cross-sectional bandwidth and eight external ports (four ports are available at initial product release), each capable of 10, 25, 40, or 100 Gbps communication speeds.
 - Each FIOM communicates among the blades in its chassis at 50 Gbps, although both FIOM switches and blade NICs are 100 Gbps-capable, to accommodate higher bandwidth demands in the future.
- **Expansion Options**
 - FlashBlade//S supports multiple expansion options between the support for blade-type //S200 and //S500, and DFM types 24, 37, 48, and 75TB DFMs.
 - For efficient storage, all models require a minimum of seven blades. Systems can be expanded by adding DFMs to blades, blades to chassis, or additional chassis, either initially or as post-deployment upgrades.

- FlashBlade//S (//S200 and //S500) single and multi-chassis configurations expand up to 10 chassis. FlashBlade//S100 are only available as single-chassis system with 18 and 37TB DFM options.

Chapter 2

FlashBlade//S Specifications

The following sections describe the physical, environmental, and operating specifications of a FlashBlade//S system.

FlashBlade//S Dimensions and Weight

The following illustrations and tables list the physical specifications of a FlashBlade//S chassis and associated components.

Figure 2.1 FlashBlade//S Chassis (Front View)

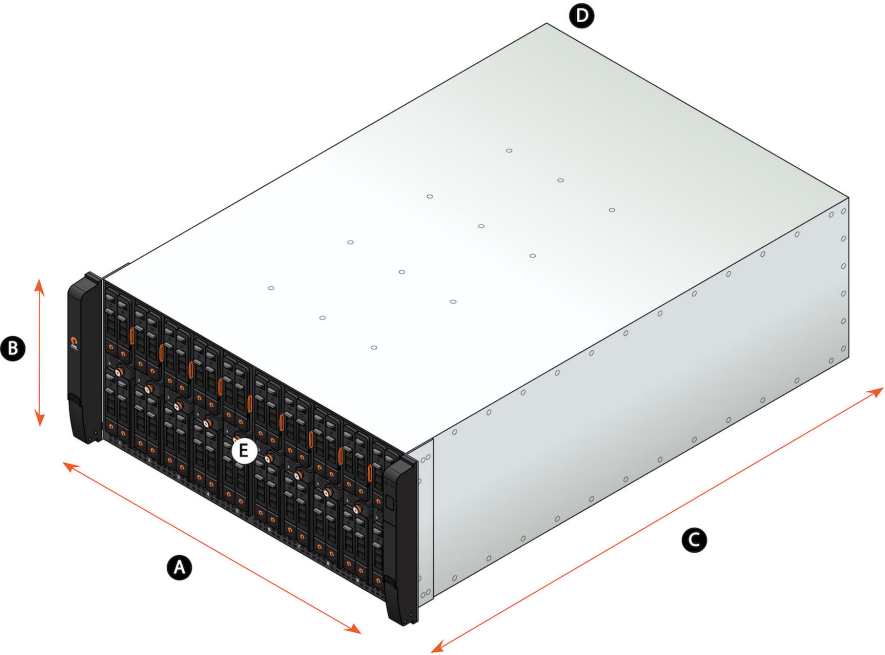


Table 2.1 FlashBlade//S Chassis Dimensions

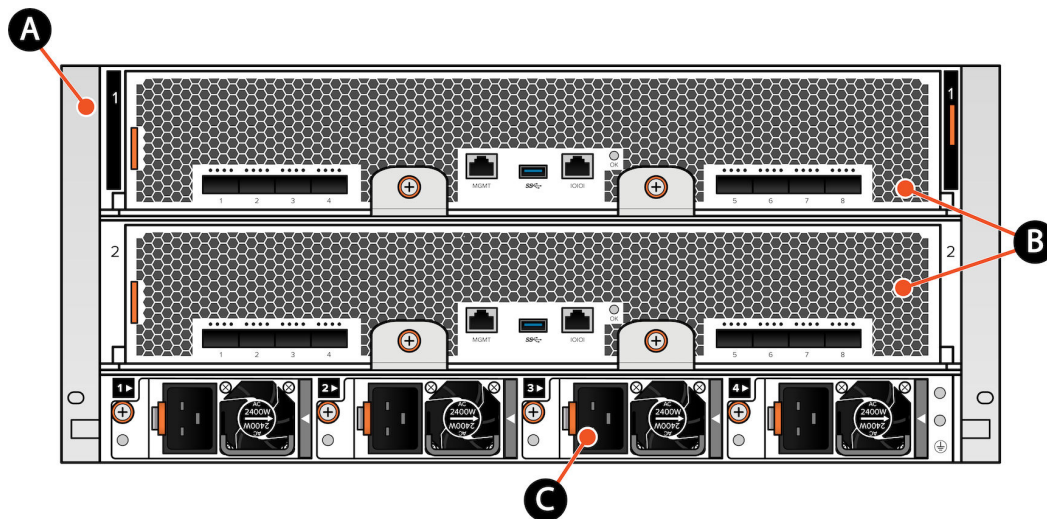
Callout	Specification	Dimensions	Notes
A	Chassis width	44.3 cm (17.44 in.)	Not including rack ears.
	Overall width	48.2 cm (19.00 in.)	Including rack ears and bezel.
B	Height	21.9 cm (8.62 in.)	5 RU of contiguous vertical space is required.

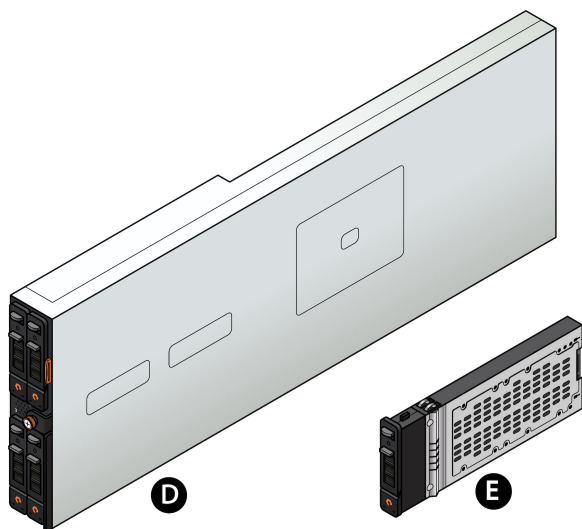
Table 2.1 FlashBlade//S Chassis Dimensions (continued)

Callout	Specification	Dimensions	Notes
C	Chassis length	81.3 cm (32.0 in.)	From rack mount surface.
	Overall length	86.0 cm (34.0 in.)	Includes rack ears and bezel.
D	Rear depth allowance	3.2 cm (1.3 in.)	Clearance for PSU handle not including power cord.
E	Individual blade (without DFMs)	Length: 57.5 cm (22.7 in.) Width: 4.2 cm (1.65 in.) Height: 19.8 cm (7.80 in.)	Width value does not include EMC gaskets. Height value does not include EMC gaskets or ejector.
Not shown	Front bezel allowance	5 cm (2.0 in.)	Rack mount surface to the front bezel.

Note: The direction of the airflow enters from the front and exits through the rear of the chassis.

Figure 2.2 FlashBlade//S Components (Rear View)




Table 2.2 FlashBlade//S Component Weight

Callout	Component	Quantity (per system)	Weight (per component)
A	Chassis	1	28.0 kg (61.8 lb)
B	Fabric I/O Module (FIOM-1000)	2 per chassis	5.8 kg (12.8 lb)
C	AC/DC Power supply unit (PSU)	4 per chassis	1.0 kg (2.3 lb)
	Power supply module (Housing unit for PSU)	4 per chassis	0.6 kg (1.4 lb)
D	Blade (without DFMs)	7-10 per chassis	4.6 kg (10.2 lb)
E	DirectFlash Module	1-4 per blade 7-40 per system	0.2 kg (0.4 lb)

Packaging Dimensions and Weight

FlashBlade//S shipping volume, including pallet, is approximately 1.1 x 0.7 x 0.8 m (43 1/8 x 24 1/2 x 31 3/8 in.). Multi-chassis configuration shipment may include multiple pallets.

The packaging without any contents weighs approximately 36 kg (80 lb). A fully loaded shipping configuration weighs approximately 136 kg (300 lb).

Rack Specifications

Verify the rack's front and rear mounting posts are between 61 and 91 cm (24-36 in.) apart, and there are 4 RU (17.8 cm or 7 in.) 5 RU (22.3 cm or 8.75 in.) of vertical space in the rack for the FlashBlade FlashBlade//S chassis.

Pure Storage provides #10-32 cage nuts and screws in the accessory kit to secure the chassis in a square-hole rack. For round-hole racks, use clip nuts (not provided) instead of cage nuts to secure the chassis to the rack. For round-hole racks, if you use #10-32 clip nuts, you can use the #10-32 screws provided in the accessory kit. If you use clip nuts of any other size, you must use matching screws. Clip nuts and alternate screws are not provided by Pure Storage.

The minimum mounted clearances for each chassis surface:

- Front (Cold Aisle): 81.5 cm (32 in.)
- Rear (Hot Aisle): 81.5 cm (32 in.)
- Side: 1.5 cm (0.6 in.)
- Top and Bottom: 0 cm (0 in.)

Power Specifications

The following sections provides power specifications for FlashBlade//S chassis and power supply units.

FlashBlade//S100 Power Specifications

The following tables describe the power consumption for a single FlashBlade//S100 chassis. These numbers are valid irrespective of the storage capacity or number of DirectFlash Modules.

Table 2.3 FlashBlade//S100 Peak Power Specifications

Model	AC Peak Power (W)	AC Peak Power (VA)	Peak Current 208V (A)	Peak Current 240V (A)	Peak Heat (BTU/hr)
7-blade FlashBlade//S100 Chassis	2,317	2,364	11.4	9.9	7,901

Table 2.3 FlashBlade//S100 Peak Power Specifications (continued)

Model	AC Peak Power (W)	AC Peak Power (VA)	Peak Current 208V (A)	Peak Current 240V (A)	Peak Heat (BTU/hr)
10-blade FlashBlade//S100 Chassis	3,018	3,080	14.8	12.8	10,291

Model	DC Peak Power (W)	Peak Current -48V (A)	Peak Current -60V (A)	Peak Heat (BTU/hr)
7-blade FlashBlade//S100 Chassis	2,317	48.3	38.6	7,901
10-blade FlashBlade//S100 Chassis	3,018	62.9	50.3	10,291

 **Note:** Peak power for other configurations, such as chassis with other blade quantities and multi-chassis configurations, can be obtained by adding the following modules to the configurations above.

Module	Total Peak Power (W)
FlashBlade//S100 blade	195
0-blade chassis	760

Table 2.6 FlashBlade//S100 Typical Power Estimates

Model	AC Typical Power (W)	AC Typical Power (VA)	Typical Current 208V (A)	Typical Current 240V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S100 Chassis	1,656	1,689	8.1	7.0	5,645
10-blade FlashBlade//S100 Chassis	2,445	2,494	12.0	10.4	8,336

Model	DC Typical Power (W)	Typical Current -48V (A)	Typical Current -60V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S100 Chassis	1,656	34.5	27.6	5,645
10-blade FlashBlade//S100 Chassis	2,445	50.9	40.7	8,336

FlashBlade//S200 Power Specifications

The following tables describe the power consumption for a single FlashBlade//S200 chassis. These numbers are valid irrespective of the storage capacity or number of DirectFlash Modules.

Table 2.8 FlashBlade//S200 Peak Power Specifications

Model	AC Peak Power (W)	AC Peak Power (VA)	Peak Current 208V (A)	Peak Current 240V (A)	Peak Heat (BTU/hr)
7-blade FlashBlade//S200 Chassis	2,407	2,527	12.2	10.5	8,618
10-blade FlashBlade//S200 Chassis	3,108	3,263	15.7	13.6	11,128

Model	DC Peak Power (W)	Peak Current -48V (A)	Peak Current -60V (A)	Peak Heat (BTU/hr)
7-blade FlashBlade//S200 Chassis	2,407	50.1	40.1	8,618
10-blade FlashBlade//S200 Chassis	3,108	64.8	51.8	11,128

 **Note:** Peak power for other configurations, such as chassis with other blade quantities and multi-chassis configurations, can be obtained by adding the following modules to the configurations above.

Module	Total Peak Power (W)
FlashBlade//S200 blade	240

Module	Total Peak Power (W)
0-blade chassis	760

Table 2.11 FlashBlade//S200 Typical Power Estimates

Model	AC Typical Power (W)	AC Typical Power (VA)	Typical Current 208V (A)	Typical Current 240V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S200 Chassis	1,882	1,976	9.5	8.2	6,739
10-blade FlashBlade//S200 Chassis	2,514	2,640	12.7	11.0	9,001

Model	DC Typical Power (W)	Typical Current -48V (A)	Typical Current -60V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S200 Chassis	1,882	39.2	31.4	6,739
10-blade FlashBlade//S200 Chassis	2,514	52.4	41.9	9,001

FlashBlade//S500 Power Specifications

The following tables describe the power consumption for a single FlashBlade//S500 chassis. These numbers are valid irrespective of the storage capacity or number of DirectFlash Modules.

Table 2.13 FlashBlade//S500 Peak Power Specifications

Model	AC Peak Power (W)	AC Power (VA)	Peak Current 208V (A)	Peak Current 240V (A)	Heat (BTU/hr)
7-blade FlashBlade//S500 Chassis	2,463	2,586	12.4	10.8	8,819
10-blade FlashBlade//S500 Chassis	3,181	3,340	16.1	13.9	11,390

Model	DC Peak Power (W)	Peak Current -48V (A)	Peak Current -60V (A)	Heat (BTU/hr)
7-blade FlashBlade//S500 Chassis	2,463	51.3	41.1	8,819
10-blade FlashBlade//S500 Chassis	3,181	66.3	53.0	11,390

 **Note:** Peak power for other configurations, such as chassis with other blade quantities and multi-chassis configurations, can be obtained by adding the following modules to the configurations above.

Module	Total Peak Power (W)
FlashBlade//S500 blade	245
0-blade chassis	760

Table 2.16 FlashBlade//S500 Typical Power Estimates

Model	AC Typical Power (W)	AC Typical Power (VA)	Typical Current 208V (A)	Typical Current 240V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S500 Chassis	2,090	2,195	10.6	9.1	7,483
10-blade FlashBlade//S500 Chassis	2,595	2,725	13.1	11.4	9,291

Model	DC Typical Power (W)	Typical Current 208V (A)	Typical Current 240V (A)	Typical Heat (BTU/hr)
7-blade FlashBlade//S500 Chassis	2,090	43.5	34.8	7,483
10-blade FlashBlade//S500 Chassis	2,595	54.1	43.3	9,291

Power Supply Unit Specifications

Pure Storage's FlashBlade//S storage systems use a family of common power supply unit (PSU) form-factor called *CRPS-185mm*. All share the same physical dimensions, but vary in power output capacity (Watts). Our AC power supplies perform to the 80-Plus[™] Titanium energy efficiency standard.

The Titanium AC PSU (2000W) or an alternative 2000W DC PSU is available for FlashBlade//S models.

 **Note:** The DC PSU option is available for FlashBlade//S multi-chassis configurations. However, the XFM modules are equipped with AC PSUs and draw AC power.

Capacity

The Titanium power supply units are available in the following capacity models:

Table 2.18 Titanium 2000W AC Model

Item	Description
AC Input Connector:	C14 Connector
Input Voltage	200V - 240V at 50/60HZ (autoranging)
Output:	2000W
Used on:	FlashBlade//S (all models)

 **Note:** Older Platinum 2400W model uses a C19 connector.

Figure 2.3 Input Connector Types

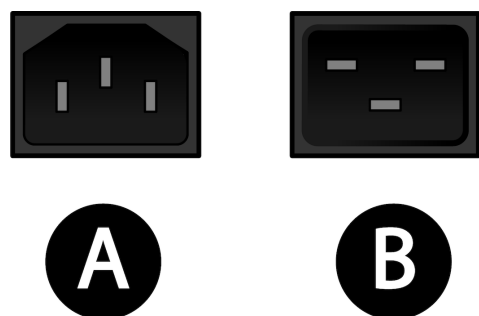


Table 2.19 Input Connector Types

Callout	Description
A	C14 receptacle
B	C20 receptacle

AC Input Voltage Models

Note: FlashBlade//S power supply units (PSU) are equipped with power cords. The PSUs are auto-ranging and operate over 200–240 VAC (nominal). FlashBlade//S PSUs operate in a 2+2 redundant mode at 200-240 VAC.

Table 2.20 Efficiency Ratings All Titanium AC Input Voltage Models

Titanium Rating	230V / 50Hz AC Input			
Power Output	10%	20%	50%	100%
Efficiency	90%	94%	96%	91%

Table 2.21 Power Factor

Titanium Rating	230V / 50Hz AC Input			
Power Output	10%	20%	50%	100%
Minimum PF	0.9	0.96	0.98	0.99

DC Input Voltage Models

Note: The DC PSU is equipped with a 3-meter -48V DC power cord.

A DC power supply unit is available in the following capacity model:

Table 2.22 2000W DC DPS-2000AB-31 C

Item	Description
DC Input Connector:	Contact Pure Storage for more information.
Input Voltage:	-48 VDC to -60 VDC
Output:	2000W
Used on:	FlashBlade//S (all models)

Figure 2.4 Input Connector Type

Table 2.23 Input Connector Types

Callout	Description
A	Contact Pure Storage for more information.

Table 2.24 Efficiency Ratings for DC Input Voltage Model

Platinum Rating	-48 VDC to -60 VDC Input		
Load	20%	50%	100%
Efficiency	90%	94%	91%

Environmental Limitations

The following table specifies the environmental limits for a FlashBlade//S system.

Table 2.25 FlashBlade//S Environmental Limits

Specification	Limit	Notes
Operating temperature	5° — 35°C	Derate 1°C per 300 m above 950 m
Non-operating temperature	–30° — 60°C	
Operating humidity	10 — 80% relative humidity	Non-condensing
Non-operating humidity	10 — 95%	
Operating altitude	–15 — 3,050 m	
Non-operating altitude	–15 — 12,000 m	
Operating shock	3 g, 11 ms, ½ Sine	
Non-operating shock	20 g, 6 ms, ½ Sine	
Operating vibration	0.55 Grms, 5 — 500 Hz	Random, 15 minutes/axis, 3 axes
Non-operating vibration	1.87 Grms, 5 — 500 Hz	Random, 15 minutes/axis, 3 axes

Acoustic Specifications

The following table lists the acoustic specifications for a FlashBlade//S system.

Table 2.26 FlashBlade//S System Acoustic Specifications

Noise Specification	27°C and below	Above 27°C
Sound power - LwAd	8.5 B	9.5 B
Sound pressure - LpAm	72.3 dBA	82.4 dBA
Assumes: Typical workload		

Chapter 3

XFM-8400 / EFM-3200e Specifications

The following sections describe the physical, environmental, and operating specifications of XFM-8400 and EFM-3200e modules.

XFM-8400 Dimensions and Weight

The XFM-8400 is only available with multi-chassis system configurations. The XFM-8400 chassis physical specifications are described in the following tables.

Figure 3.1 XFM-8400 module

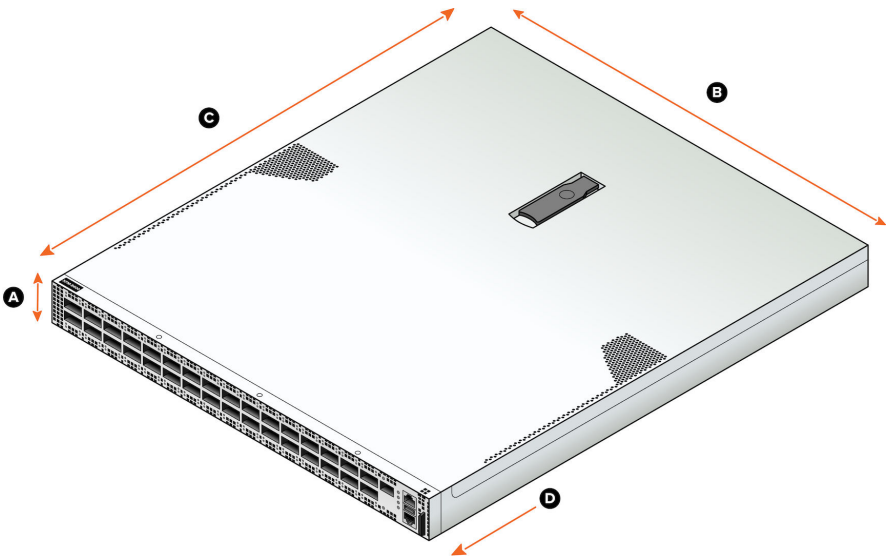


Table 3.1 Physical Dimensions

Callout	Specification	Dimension	Notes
A	Height	4.3 cm (1.70 in.)	
B	Width	43.9 cm (17.26 in.)	
C	Length	65.8 cm (25.89 in.) (Not including fan/PSU latches)	

Table 3.1 Physical Dimensions (continued)

Callout	Specification	Dimension	Notes
D			Direction of airflow

Table 3.2 Weight

Component	Quantity	Weight
Chassis (module)	1	14.22 kg (31.34 lb)
Power supply unit (hot-swappable)	2	1.16 kg (2.56 lb)

Packaging Dimensions and Weight

The XFM-8400 modules are shipped separately from the FlashBlade//S shipping container. Each XFM-8400 package includes power cords, network cables, adapters, and labels.

Table 3.3 Packaging Dimensions and Weight

Length	Width	Height	Gross Weight
91.4 cm (35.98 in.)	57.15 cm (22.50 in.)	44.5 cm (17.52 in.)	31 kg (69 lb)

EFM-3200e Dimensions and Weight

The EFM-3200e is only available with multi-chassis system configurations. The physical specifications for EFM-3200e chassis are described in the following tables.

Figure 3.2 EFM-3200e module

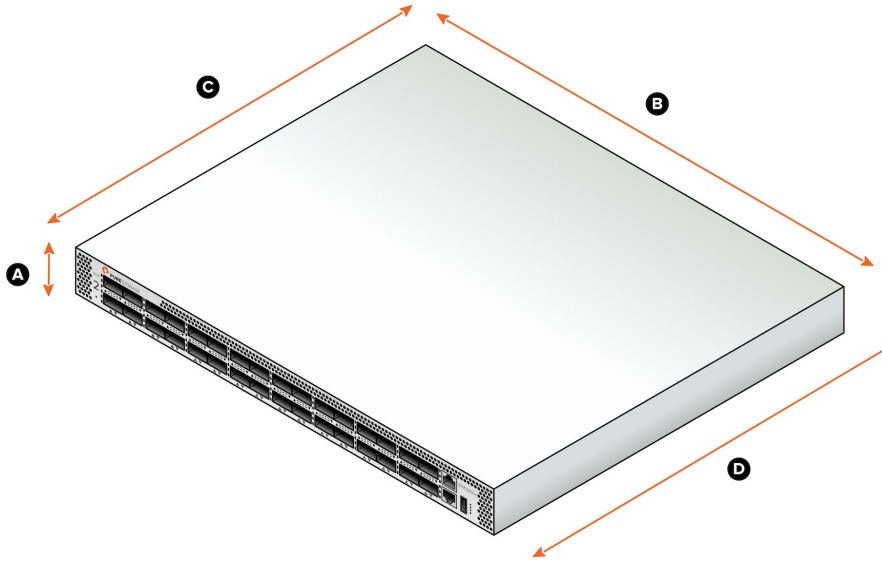


Table 3.4 Physical Dimensions

Callout	Specification	Dimension	Notes
A	Height	4.4 cm (1.73 in.)	
B	Width	43.8 cm (17.25 in.) 48.2 cm (19 in.)	Without inner rails Includes inner rails
C	Length	44.4 cm (17.25 in.) 66.0 cm (26 in.) 19.0 cm (7.5 in.)	Without inner rails Includes inner rails Inner rails extension beyond chassis
D			Direction of airflow

Table 3.5 Weight

Component	Quantity	Weight
Chassis	1	10 kg (22 lb)
Power supply unit (hot-swappable)	2	0.85 kg (1.9 lb)

Packaging Dimensions and Weight

The EFM-3200e modules are shipped separately from the FlashBlade FlashBlade//S shipping container. Each EFM-3200e package includes power cords, network cables, and labels.

Table 3.6 Packaging Dimensions and Weight

Length	Width	Height	Gross Weight
85.3 cm (33.58 in.)	55.9 cm (22.01 in.)	16.8 cm (6.61 in.)	17.6 kg (38.8 lb)

Power Specifications

XFM-8400 Module

The following table lists the typical power consumption of an XFM-8400 module.

Table 3.7 Typical XFM-8400 Power Consumption

Power consumption	Value
Voltage range	200-240 VAC
Frequency	50/60 Hz
Power factor correction	>=95%
Inrush current	40A per power supply unit

The following table describes the peak and typical power values of a single XFM-8400 module. Each XFM-8400 module is equipped with two high efficiency 80 Plus Platinum Level rated AC power supplies.

Table 3.8 XFM-8400 Peak Power Specifications

AC draw (W)	AC draw (VA)	Current at 208V (A)	Current at 240V (A)	Heat (BTU/hr)
600	630	2.9	2.5	2,046

Table 3.9 XFM-8400 Typical Power Specifications

AC power (W)	AC Power (VA)	Current at 208V (A)	Current at 240V (A)	Heat (BTU/hr)
314	330	1.5	1.3	1,071

 **Note:** Typical power numbers do not include optics. Numbers may vary depending on multi-chassis configuration.

Optical Links	Power
Downlinks	14W per chassis
Uplinks	10W per link

The XFM-8400 module includes two IEC C13/C14 (10A 250V) power cords.

 **Note:** Power cords may vary depending on national regulations.

EFM-3200e Module

The following table lists the typical power consumption of an EFM-3200e module.

Table 3.11 Typical EFM-3200e Power Consumption

Power consumption	Value
Voltage range	90-264 VAC
Voltage range selection	Auto-ranging
Frequency	50/60 Hz
Power factor correction	>=95%
Inrush current	25A per power supply unit

The following tables describe the peak and typical power values of a single EFM-3200e module.

Table 3.12 EFM-3200e Peak Power Specifications

AC draw (W)	AC draw (VA)	Current at 120V (A)	Current at 208V (A)	Current at 240V (A)	Heat (BTU/hr)
495	520	4.1	2.4	2.1	1,689

Table 3.13 EFM-3200e Typical Power Specifications

AC power (W)	AC Power (VA)	Current at 120V (A)	Current at 208V (A)	Current at 240V (A)	Heat (BTU/hr)
181	190	1.6	0.9	0.8	616

The EFM-3200e includes two IEC C13/C14 (10A 250V) power cords.

 **Note:** Power cords may vary depending on national regulations.

Environmental Limitations

XFM-8400 Module

The following table specifies the environmental limits for XFM-8400 modules.

Table 3.14 XFM-8400 Environmental Limits

Specification	Limit	Notes
Operating temperature	0° — 40°C	
Non-operating temperature	–40° — 70°C	
Operating humidity	8 — 90% relative humidity	
Non-operating humidity	20 — 90%	
Operating altitude	Up to 3,000 m	
Non-operating altitude	Up to 12,000 m	
Operating shock	3 g, 11 m/s, ½ Sine	

Table 3.14 XFM-8400 Environmental Limits (continued)

Specification	Limit	Notes
Non-operating shock	18 g, 6 m/s, ½ Sine	
Operating vibration	0.26 Grms, 5 — 350 Hz	Random, 30 minutes/axis, 3 axes
Non-operating vibration	0.78 Grms, 5 — 200 Hz	Random, 30 minutes/axis, 3 axes

EFM-3200e Module

The following table specifies the environmental limits for EFM-3200e modules.

Table 3.15 EFM-3200e Environmental Limits

Specification	Limit	Notes
Operating temperature	5° — 40°C	
Non-operating temperature	–30° — 60°C	
Operating humidity	20 — 80%	Relative humidity
Non-operating humidity	unavailable	
Operating altitude	10,000 ft	
Non-operating altitude	15,000 ft at 25°C	
Operating shock	9 — 14 g, 1.88 m/s, ½ Sine	Velocity change
Non-operating shock	60 g	Trapezoidal maximum peak
Operating vibration	0.41 Grms, 3 — 500 Hz	Random
Non-operating vibration	1.12 Grms, 3 — 500 Hz	Random

Chapter 4

Supported Cables and Transceivers

FlashBlade//S system supports a variety of network cables and transceivers. For more information, visit FlashBlade//S [*Transceiver and Cable Support*](#).



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