

FlashBlade™ and XFM-8400/EFM-3200e Safety and Compliance Sécurité et Conformité

40-0137-04

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Chapter 1

Conventions and Guidelines

Conventions

The following symbols appear in Pure Storage documentation.

Table 1.1 Documentation Symbols

Symbol	Meaning
	Additional information
	Supplementary instruction
	Potential for injury, physical damage, data loss, or array configuration loss
	Important information
	Indicates a need for login access to a FlashBlade or involvement from Pure Technical Services.

Safety and Handling Guidelines

-  If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment might be impaired.
-  Equipment is intended for installation in a restricted access area.
-  Verify that all electrical connections are grounded before powering on.
-  Avoid contact with back-plane components and connectors.
-  Disconnect power cords before moving chassis and shelves.

- ⚠ Install replacement components within two minutes of removing a faulty component to ensure the maximum blade temperatures do not exceed temperature limits.
- ⚠ Use only CDRH approved Class 1 fiber optic transceiver modules.
- ⚠ Verify all rack electrical distribution systems meet all safety requirements of UL 62368-1, IEC 62368-1, or EN 62368-1 when fully populated, and they provide adequate 100-240V 50-60Hz AC power and over-current protection.
- ⚠ Do not use bifurcated ("Y") power cords.
- ⚠ Do not open chassis, shelf enclosures, or other components unless you are a qualified service representative performing a procedure approved by Pure Storage.
- ⚠ Do not use component handles to lift the chassis. Use the chassis lift handles to lift a chassis.
- ⚠ When servicing rack-mounted equipment, remove only one chassis at a time.
- ⚠ Use a mechanical lift or 3 or more people to lift the FlashBlade chassis.
- ⚠ Do not replace batteries due to the risk of exploding if mishandled.
- ⚠ Do not insert anything into any FlashBlade or XFM-8400/EFM-3200e connectors except as specified in installation or repair instructions.

Conventions et Lignes Directrices

Les directives suivantes s'appliquent aux produits Pure Storage.

Conventions

Les symboles suivants apparaissent dans la documentation sur le stockage de données de Pure Storage.

Table 1.2 Symboles de Documentation

Symbole	Signification
 Conseil:	Meilleure pratique
 Remarque:	Instructions supplémentaires
 Mise en GARDE:	Risque de blessure, de dommage physique, de perte de données ou de perte de configuration de la matrice
 Important:	Renseignements importants
	Indique un besoin d'accès de connexion à un FlashBlade ou une implication de Pure Technical Services.

Directives de Sécurité et de Manutention

◆ **Mise en GARDE:** Si cet équipement est utilisé d'une manière qui n'est pas précisée par le fabricant, la protection fournie par l'équipement pourrait être compromise.

◆ **Mise en GARDE:** Les matériels sont destinés à être installés dans des EMPLACEMENTS À ACCÈS RESTREINT.

◆ **Mise en GARDE:** Vérifiez que toutes les connexions électriques sont mises à la terre avant d'allumer l'alimentation.

◆ **Mise en GARDE:** Éviter tout contact avec les composants et les connecteurs du fond de panier.

◆ **Mise en GARDE:** Débranchez tous les cordons d'alimentation avant de déplacer le châssis ou les tablettes ou d'effectuer toute opération de mise hors tension.

◆ **Mise en GARDE:** Installez les composants de remplacement dans les deux minutes suivant la dépose des composants défectueux. Cela permet de s'assurer que les températures maximales ne sont pas dépassées.

◆ **Mise en GARDE:** Utilisez uniquement des modules émetteur-récepteur à fibre optique de Classe 1 approuvés par le CDRH.

- ◆ **Mise en GARDE:** Vérifier que les systèmes de distribution électrique du bâti répondent à toutes les exigences de sécurité des normes UL 62368-1, IEC 62368-1, ou EN 62368-1 lorsqu'ils sont entièrement remplis et fournir une alimentation c.a. de 100 à 240V de 50 à 60Hz, une protection contre les surintensités et une mise à la terre électrique adéquates pour tous les équipements installés.
- ◆ **Mise en GARDE:** N'utilisez pas de cordons d'alimentation bifurqués ("Y").
- ◆ **Mise en GARDE:** N'ouvrez pas le châssis, les boîtiers d'étagère ou tout autre composant à moins d'être un représentant qualifié qui effectue une procédure d'entretien conformément aux instructions publiées par Pure Storage.
- ◆ **Mise en GARDE:** N'utilisez pas de poignées des composants pour soulever un châssis. Utilisez les poignées de levage du châssis pour soulever un châssis.
- ◆ **Mise en GARDE:** Lors de l'entretien de l'équipement monté sur bâti, prolonger un seul châssis à la fois.
- ◆ **Mise en GARDE:** Utilisez un élévateur mécanique ou 3 personnes ou plus pour soulever le châssis FlashBlade.
- ◆ **Mise en GARDE:** Ne remplacez pas les piles en raison d'un risque d'explosion si elles sont manipulées incorrectement.
- ◆ **Mise en GARDE:** N'insérez rien dans le connecteur FlashBlade or XFM-8400/EFM-3200e sauf dans les directives d'installation ou d'entretien.

Safety Statements (Hebrew)

הוראות בטיחות לשימוש במטען

מטענים:

יש לפעול ע"פ כללי הבטיחות הבאים בעת שימוש במטענים:

- בשימוש במכשיר בישראל יש לחבר לספק הכוח אך ורק את ראש התקע האירופי המתאים לשקעים בישראל
- ודא שלמות ותקינות כבל החשמל והתקע.
- אין להכניס או להוציא את התקע מרשת החשמל בידיים רטובות.
- אין לפתוח את המטען, במקרה של בעיה כלשהי, יש לפנות למעבדת השירות הקרובה.
- יש להרחיק את המטען מנוזלים.
- במקרה של ריח מוזר, רעשים שמקורם במטען, יש לנתקו מיידית מרשת החשמל ולפנות למעבדת שירות.
- המטען מיועד לשימוש בתוך המבנה בלבד, לא לשימוש חיצוני ולא לשימוש בסביבה לחה.
- אין לחתוך, לשבור, ולעקם את כבל החשמל.
- אין להניח חפצים על כבל החשמל או להניח לו להתחמם יתר על המידה, שכן הדבר עלול לגרום לנזק, דליקה או התחשמלות.
- לפני ניקוי המטען יש לנתקו מרשת החשמל.
- יש להקפיד לתחזק את התקן הניתוק במצב תפעולי מוכן לשימוש

אזהרה:

- אין להחליף את כבל הזינה בתחליפים לא מקוריים, חיבור לקוי עלול לגרום להתחשמלות המשתמש.
- בשימוש על כבל מאריך יש לוודא תקינות מוליך הארקה שבכבל.
- מיועד לשימוש פנימי בלבד.

הוראות בטיחות לסוללת ליתיום

- זהירות סכנה! החלפה שגויה עלולה לגרום לפיצוץ, יש להחליף אך ורק בסוללה דומה או שקולה.
- אין לחשוף את הסוללה לחום גבוה כגון אור שמש, אש וכדומה.
- אין להשליך את הסוללה לאשפה אלא במתקני מחזור המיועדים לכך.

Chapter 2

Product Regulations and Standards

Pure Storage products are subject to the regulations, directives, and standards established by governing agencies of various countries.

FCC Compliance (USA)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

 **Note:** Changes or modifications not expressly approved by Pure Storage may void the user's authority to operate the equipment.

If special accessories are needed to ensure compliance of the product add instructions on the first page of the text concerned with the installation of the device that these special accessories must be used with the device.

RESPONSIBLE PARTY located in the United States of America:

Pure Storage, Inc. USA
2555 Augustine Drive, 1st Floor Santa Clara, CA 95054
Phone: 800-379-7873
Email: info@purestorage.com

Safety Compliance

FlashBlade

The FlashBlade system is a compliant product and adheres to the safety regulations set by the following agencies: CE, TUV (United States of America and Canada), BSMI, NOM.

XFM-8400

The XFM-8400 switch falls under the compliance model DS4000, which adheres to the safety regulations set by the following agencies: CE, UL Standards (United States of America and Canada), BSMI, NOM.

EFM-3200e

An EFM-3200e switch is a compliant product and adheres to the safety regulations set by the following agencies: CE, UL Standards (United States of America and Canada), BSMI, NOM.

Electromagnetic Compliance (EMC)

FlashBlade

The FlashBlade system is a Class-A compliant product and adheres to the electromagnetic regulations set by the following agencies: CE, FCC, BSMI, KCC, VCCI, RCM C-Tick, CISPR, EN, BS EN, QCVN

XFM-8400

An XFM-8400 switch is a Class-A compliant product and adheres to the electromagnetic regulations set by the following agencies: CE, FCC, BSMI, KCC, VCCI, RCM

EFM-3200e

An EFM-3200e switch is a Class-A compliant product and adheres to the electromagnetic regulations set by the following agencies: CE, FCC, BSMI, KCC, VCCI, RCM

Regulatory Compliance Notices

Australia/New Zealand

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Canada

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

European Union

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take adequate measures.

Learn more about how you can responsibly recycle your Pure Storage product or for a recommendation on a partner to recycle other electronic waste at <https://www.purestorage.com/recycling/country.html>.

Japan

"この装置は、クラスA 情報技術装置です。この装置を家庭環境で使用する
と電波妨害を引き起こすことがあります。この場合には使用者が適切な対策
を講ずるよう要求されることがあります。VCCI-A"

Translation: "This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures."

本製品に同梱いたしております電源コードセットは、本製品専用です。本電源
コードセットは、本製品以外の製品ならびに他の用途でご使用いただくことは
できません。製品本体に同梱された電源コードセットを使用し、他製品の電源
コードを使用しないでください。

Translation: "The power cord included in this product can only be used with specific equipment. This power cord cannot be used except for this product and the other purpose. Do not use the power cord from other product. Please use the cord included in this product."

Korea

"이 기기는 업무용(A급) 전자파 적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며,
가정외의 지역에서 사용하는 것을 목적으로 합니다."

Translation: "Class A device (Broadcasting Communication Device for Office Use): This device obtained EMC registration for office use (Class A), and may be used in places other than home. Sellers and/or users need to take note of this."



Model	KCC Certification Number
FlashBlade	MSIP-REM-pr2-FBm

Taiwan

警告使用者: 這是甲類的資訊產品, 在居住的環境中使用時,
可能會造成射頻干擾, 在這種情況下, 使用者會被要求採取某
些適當的對策

English translation: "This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures."

Israel

אזהרה

מוצר זה הוא מוצר Class A.

בסביבה ביתית, מוצר זה עלול לגרום הפרעות בתדר רדיו, ובמקרה זה, המשתמש עשוי להידרש
לנקוט אמצעים מתאימים.

Hazardous Substances

European Union

Pure Storage FlashBlade and XFM-8400/ EFM-3200e are compliant with the EU Directive 2011/65/EC.

United States of America

For California only: Perchlorate Material – special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

 **WARNING:** This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to <http://www.P65Warnings.ca.gov>.

Taiwan

設備名稱：網路服務器 Equipment name						
型號（型式）： Type designation (Type)						
單元 Unit	Restricted substances and its chemical symbols 限用物質及其化學符號					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
機殼/Chassis	-	○	○	○	○	○
硬碟/Hard Disk	-	○	○	○	○	○
記憶體/RAM	-	○	○	○	○	○
電路板/Printed circuit board	-	○	○	○	○	○
內部配線 /Internal cable	○	○	○	○	○	○
電源供應器/ Power Supply	-	○	○	○	○	○
電源線/AC Power Cord	○	○	○	○	○	○
備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考3. “-” 係指該項限用物質為排除項目。 Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.						

People's Republic of China

This table is prepared in accordance with the provisions of SJ/T 11364.

本表格依据 SJ/T 11364 的规定编制。

部件名称 Component Name	有害物质 Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDE)
机壳 Chassis	X	O	O	O	O	O
硬盘 Hard disk	X	O	O	O	O	O
随机存取存储器 RAM (random access memory)	X	O	O	O	O	O
印刷电路板 Printed circuit board	X	O	O	O	O	O
内部电缆 Internal cable	O	O	O	O	O	O
电源供应 Power supply	X	O	O	O	O	O
电源线 Power cord	X	O	O	O	O	O

- O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

- X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement of GB/T 26572.

FlashBlade AC Power Supply Safety Warnings

⚠ WARNING: High touch current. Earth connection is essential before connecting the power supply.

⚠ **AVERTISSEMENT:** Courant élevé tactile. Eonnexion essentielle avant de connecter l'alimentation de la Terre.

⚠ **WARNUNG:** Hohe Berührungstrom. Erdung wichtig, bevor Versorgung.

⚠ **CAUTION:** This unit has redundant power sources. Please disconnect all the power cords before servicing.

⚠ **ATTENTION:** Unité est alimentée par des cordons d'alimentation multiples. Pour déconnecter totes les sources d'alimentation de l'unité, débranchez tous les cordons d'alimentation.

⚠ **ACHTUNG:** Das Gerät is mit mehreren Netzteilen ausgerüstet. Zur sicheren Trennung vom Stromkreis müssen alle Stromkabel gezogen werden.

Norge: Apparatet må tilkoples jordet stikkontakt.

Suomi: Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.

Sverige: Apparatens skall anslutas till jordat uttag.

European Union EcoDesign Directive for FlashBlade

European Union (EU) Directive 2009/125/EC, Commission Regulation (EU) 2019/424: EcoDesign requirements for servers and data storage products.

EU EcoDesign Compliance Form

Compliance Model:	FlashBlade
Product Type:	Data storage product
Manufacturer:	Pure Storage, Inc.
Registered Trade Name:	Pure Storage, Inc.

Registered Trade Address:		Pure Storage, Inc. EU (Czech Republic) Rohanské nábřeží 661/5, 186 00 Prague 8 - Karlín, Czech Republic Phone: +420 228 886 096 Website: https://www.purestorage.com E-mail: info@purestorage.com
First Year of Manufacture:	17TB	2017
	52TB	2017

Power Supply Unit Efficiency Compliance

Power supply compliance model: Artesyn DS1600SPE-3

80-Plus Certification Level: Platinum

% of Rated Load	10%	20%	50%	100%
Rated Efficiency	88.7%	92.9%	94.2%	92.7%

Minimum Power Factor: 0.98 at 50% load

Weight of Raw Critical Materials

Material	Weight
Cobalt in batteries	None
Neodymium in hard disk drive (HDD)	None

Material Disassembly Compliance

Device Type	Device Name	Device Location	Disassembly and Removal
Data storage	R1 and R2 storage blade 17TB and 52TB	Storage blade slot	Remove blade: Toolless latch
Memory (DIMM)	R1 blade CPU DDR3 RDIMM	Storage blade internal	Remove blade: Toolless latch Remove blade cover: Phillips screwdriver, 6 screws Remove DIMM: Toolless latch
	R2 blade CPU DDR3 RDIMM	Storage blade internal	Remove blade: Toolless latch Remove blade cover: Toolless latch Remove DIMM: Toolless latch
	EFM CPU DDR3 RDIMM	EFM internal	Release EFM latch screw: Screwdriver, 2 screws Release EFM: Latch Remove DIMM: Toolless latch
CPU	Blade X86 SOC	Blade CPU board	Not applicable: CPU is an embedded soldered BGA type
	EFM X86 SOC	EFM CPU board	Not applicable: CPU is an embedded soldered BGA type

Device Type	Device Name	Device Location	Disassembly and Removal
Motherboard	R1 blade CPU board	Blade CPU board	Remove blade: Toolless latch Remove blade cover: Phillips screwdriver, 6 screws Remove CPU module side screws: Phillips screwdriver, 6 screws Remove CPU PCBA: Phillips screwdriver, 5 screws
	R2 17TB Blade CPU board	Blade CPU board	Remove blade: Toolless latch Remove blade cover: Toolless latch Remove storage PCBA: Phillips screwdriver, 4 screws each module Remove super cap PCBA: Phillips screwdriver, 2 screws each module Remove CPU PCBA: Phillips screwdriver, 15 screws 1/4" Hex driver: 5 Standoffs
	R2 52TB blade CPU board	Blade CPU board	Remove blade: Toolless latch Remove blade cover: Toolless latch Remove storage PCBA: Phillips screwdriver, 4 screws each module Remove super cap PCBA: Phillips screwdriver, 2 screws each module Remove CPU PCBA: Phillips screwdriver, 7 screws 1/4" Hex driver: 13 Standoffs
	EFM CPU board	EFM CPU board	Release EFM latch screw: Screwdriver, 2 screws Remove EFM: Latch Remove CPU PCBA: Phillips screwdriver, 7 screws

Device Type	Device Name	Device Location	Disassembly and Removal
Expansion card	None		
(AC) Power supply unit (PSU)	AC PSU	Chassis rear	Toolless latch
Chassis	Rear card cage	Rear side of chassis	Release PSU latch (4x) and remove. Release EFM latch screw: Phillips screwdriver, 2 screws Remove EFM: Latch Remove chassis top cover: Phillips screwdriver, 45 screws side of chassis Remove rear card cage: Phillips screwdriver, 10 screws on side and bottom of chassis
	Midplane PCBA	Middle of chassis (access from the rear side)	(Remove rear card cage first) Remove midplane PCBA: Phillips screwdriver, 16 screws
Batteries	RTC blade CPU RTC CoinCell Battery	Blade CPU board	Remove blade: Toolless latch Remove blade cover: Phillips screwdriver, 6 screws Remove battery: Toolless
	R2 blade CPU RTC CoinCell Battery	Blade CPU board	Remove blade: Toolless latch Remove blade cover: Toolless latch Remove battery: Toolless
	EFM CPU RTC CoinCell Battery	EFM CPU board	Release EFM latch screw: Screwdriver, 2 screws Remove EFM: Latch Remove CPU PCBA: Phillips screwdriver, 7 screws Remove battery: Toolless

Secure Data Deletion

Pure Storage FlashBlade has the functionality for secure data deletion. Contact Pure Storage Technical Support for assistance with using the data deletion feature.

Address	Pure Storage, Inc. USA Office 2555 Augustine Drive, 1st Floor Santa Clara, CA 95054
	Dublin, Ireland Office Adelphi Plaza, Upper Georges Street Dun Laoghaire
email	support@purestorage.com
Website	https://support.purestorage.com

Firmware Update

Pure Storage Support contact information.

Address	Pure Storage, Inc. 2555 Augustine Drive, 1st Floor Santa Clara, CA 95054
email	support@purestorage.com
Website	https://support.purestorage.com

Temperature and Environmental Operation

ASHRAE Class: A2 (5° C - 35° C operation), (41° F - 95° F)

Manual Information

This manual (40-0137-xx CDOC, *FlashBlade and XFM-8400/EFM-3200e Safety and Compliance*) is available online at: https://support.purestorage.com/FlashBlade/Purity_FB/FlashBlade_Technical_Reports



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