

### Overview

#### HPE Nimble Storage Secondary Flash Arrays

The HPE Nimble Storage platform leverages flash storage and the power of predictive analytics to deliver fast and reliable access to data. This approach closes the app-data gap and radically simplifies operations. HPE InfoSight predictive analytics predict and prevent issues to deliver a guaranteed 99.9999% availability<sup>1</sup>. Utilize a single multicloud architecture to flexibly deploy workloads on flash arrays, converged infrastructure, and the public cloud.

As part of the HPE Nimble Storage platform, Adaptive Flash hybrid storage arrays combine affordable flash performance with radical simplicity for mixed, mainstream workloads. Adaptive Flash Arrays are cloud ready – providing an easy on-ramp to the cloud through HPE Cloud Volumes. Backed by our Timeless Storage guarantee<sup>2</sup>, optional software is included and forklift upgrades can become a thing of the past.

HPE Nimble Storage Secondary Flash Arrays let you put your backup data to work. Designed to simply and efficiently handle tasks like Veeam backups and disaster recovery, they also offer the flash-optimized performance needed to run development/test, QA, and analytics workloads on your backup data—plus production workloads when needed.

Back up and recover data from any primary storage array nearly instantaneously. Save space with always-on, inline deduplication and compression, Simplify data management through integration with leading availability software for virtualization environments from Veeam. Don't wait for a disaster—put your backup data to work today.

HPE Nimble Storage Secondary Flash Arrays scale from effective capacities up to 3.6PB<sup>3</sup>.

Designed to radically simplify operations, HPE Nimble Storage Secondary Flash Arrays feature HPE InfoSight predictive analytics predict and prevent issues across the infrastructure stack. Even the most complex issues are rapidly resolved because HPE InfoSight has already collected the necessary information to solve the problem, removing the need for complex troubleshooting. As a result, traditional level 1 and 2 support staff is completely automated by HPE InfoSight. The HPE Nimble Storage support organization is entirely composed of level 3 experts who answer calls in less than a minute on average.



**HPE Nimble Storage SF100/SF300 Secondary Flash Array  
(Base array, 4U; 21 bays hold carriers with Large Form Factor HDDs,  
3 bays hold Dual Flash Carriers with Small Form Factor SSDs)**

#### NOTE:

<sup>1</sup>For details on the HPE Nimble Storage 6-nines guarantee, refer

to <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00018503enw>

<sup>2</sup>Refer to <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00021804enw> for details.

<sup>3</sup>Assumes typical 3x to up to 18x savings, based on Backup retention policy.

**NOTE:** For more information about the entire HPE Nimble Storage product portfolio, go

to <https://www.hpe.com/us/en/storage/nimble.html>. HPE Nimble Storage products are not available in some markets.

## Overview

### Put Your Backup Data to Work

- Secondary storage that does real work: Flash performance lets you use your backup data for development/test, QA, analytics, and more.
- Eliminates need for full backups: And speeds synthetic full backups from hours to minutes.
- Faster backup verification: Makes it possible to test backups more often than ever before.

### Flash Enhanced Data Protection

- Near-instant restores: Access files, VMs, applications, and entire systems directly on the Secondary Flash Array or rapidly copy them back to primary storage.
- Near-instant disaster recovery: Fail over from primary storage to Secondary Flash Arrays and resume production workloads at flash speed.
- Data reduction without penalty: Always-on, inline deduplication and compression increases effective capacity without impacting performance.
- Backup and DR at a third of the cost, when replicating from all-flash to secondary flash<sup>1</sup>.

### Radical Simplicity

- Converged infrastructure: Reduce footprint by combining backup, disaster recovery, and secondary storage workloads into one device.
- Worry-free operations: HPE InfoSight predictive analytics deliver a **guaranteed 99.9999% availability**<sup>1</sup> by resolving 86%<sup>2</sup> of problems before you are even aware of an issue.
- Rich data services with common management and mobility across all HPE Nimble Storage products.
- Cloud ready: Future-proof your data center for the cloud with HPE Nimble Storage cloud ready flash arrays.

#### NOTE:

<sup>1</sup>For details on the HPE Nimble Storage 6-nines guarantee, refer

to <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00018503ENW>

<sup>2</sup>Based on actual customer data collected by the HPE Nimble Storage Support organization. See

also <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00018503ENW>

<sup>3</sup>Subject to HPE Nimble Storage General Terms and Conditions available

at <https://www.hpe.com/us/en/storage/nimble.html/docs>

## Overview

### HPE Nimble Storage Secondary Flash Array models

	HPE Nimble Storage SF100		HPE Nimble Storage SF300		
Number of controllers	2				
Number of drives	(21) LFF Hard Drives				
Raw capacity in base array <sup>1</sup>	21 TB	42 TB	84 TB	126 TB	210 TB
Usable capacity in base array <sup>1</sup>	16 TB	33 TB	67 TB	101 TB	169 TB
Effective capacity in base array <sup>1,2</sup>	48-288 TB	99-594 TB	201 TB-1.2 PB	303 TB- 1.8 PB	507 TB – 3 PB
Flash Capacity in base array <sup>3</sup>	1.44 TB	2.88 TB	5.76 TB	9.6 TB	27.87 TB
Maximum capacity	Up to 126 TB		Up to 252 TB		
Expansion Shelves	Up to (2) Expansion Shelves				
RAID level	Triple+ Parity RAID				
On-board connectivity	(4) 1 GbE/10 GbE ports, (2) per controller				
Additional host connectivity	(4) 1/10GbE iSCSI (10GBASE-T), or (4) 1/10GbE iSCSI (Optical), or (4) 8/16Gb Fibre Channel; depending on configuration				

### Expansion Shelves for HPE Nimble Storage Secondary Flash Arrays

	Expansion Shelf with 21 TB	Expansion Shelf with 42 TB	Expansion Shelf with 84 TB	Expansion Shelf with 126 TB
Compatible with	HPE Nimble Storage Secondary Flash Arrays			
Number of drives	21 drives			
Raw capacity in expansion shelf <sup>1</sup>	21 TB	42 TB	84 TB	126 TB
Usable capacity in expansion shelf <sup>1</sup>	16 TB	33 TB	67 TB	101 TB
Effective capacity in expansion shelf <sup>1,2</sup>	48-288 TB	99-594 TB	201 TB-1.2 PB	303 TB- 1.8 PB
Flash Capacity in expansion shelf <sup>3</sup>	1.44 TB	2.88 TB	5.76 TB	9.6 TB
RAID level	Triple+ Parity RAID			

**NOTE:** Specifications are subject to change without notice.

<sup>1</sup> For storage capacity, 1 GiB = 230 bytes and 1 TiB = 1,024 GiB.

<sup>2</sup> Assumes typical 3x to up to 18x savings, based on Backup retention policy, on a Veeam target. Other workloads might yield lower data reduction ratio.

<sup>3</sup> Flash Capacity is provided by Solid State Drives, upgradable with Flash Upgrade Kits.

### Host OS Support

Microsoft® Windows® Server, including Microsoft® Hyper-V™ | VMware vSphere™ | HP-UX® | Ubuntu  
SUSE® Linux Enterprise | SUSE® Linux Virtualization | Red Hat® Enterprise Linux® | Red Hat® Enterprise Virtualization  
CentOS | Oracle® Linux® (UEK and RHEL compatible kernels) | Oracle® Solaris Citrix® | IBM® AIX®

For the latest information on supported operating systems refer to Single Point of Connectivity Knowledge (SPOCK) for HPE Storage products, including HPE Nimble Storage: <http://www.hpe.com/storage/spock>

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## Service and Support and Warranty Information

### Warranty

HPE Nimble Storage arrays come with the following warranties:

- 1 year, parts-only warranty for hardware components
- 90 day, software updates for defects

Additionally, HPE Nimble Storage will provide phone support for replacing a defective part. Additional support coverage is required for HPE Nimble Storage arrays.

**NOTE:** Warranty is provided by HPE.

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### Service and Support

Support is required for all HPE Nimble Storage arrays. Support SKUs provide three years of 24x7 telephone and email support for the arrays with a choice of Next Business Day (NBD) or 4-hour parts delivery\*, access to HPE InfoSight predictive analytics platform and software updates.

**NOTE:** Support contract is mandatory for all HPE Nimble Storage products.

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### Installation Service

#### **New Array Installation (USA/Canada only)**

On-site installation of a new HPE Nimble Storage array in a data center.

#### **New Remote Installation**

Remote installation of a new HPE Nimble Storage array in a data center.

#### **Upgrade Kit or Expansion Shelf Installation (USA/Canada only)**

On-site installation of upgrades kits or expansion shelves for an existing HPE Nimble Storage array.

**NOTE:** Installation services are optional for all HPE Nimble Storage products.

**NOTE:\*** Available in select markets; for areas not currently covered, HPE Nimble Storage offers on-site spare parts/kits for purchase.

## Technical Specifications

### Step 1 - Choose a Base configuration

All HPE Nimble Storage Secondary Flash Arrays come in a 4U form-factor chassis with

- (2) controllers with fans and NVDIMM, and
- (4) 1GbE/10GbE network ports, i.e. (2) per controller, for iSCSI or management traffic and
- (2) power supplies and
- All-inclusive software including HPE InfoSight predictive analytics

Additional host connectivity per controller is indicated in the product description below.

Flash Cache upgrades and expansion shelves are available for integration in the field.

### HPE Nimble Storage Secondary Flash Arrays – Base Configuration

<b>Base Array</b>	HPE Nimble Storage SF100 Secondary Flash Dual Controller 10GBASE-T 2-port Base Array	Q8B42A
	HPE Nimble Storage SF300 Secondary Flash Dual Controller 10GBASE-T 2-port Base Array	Q8B36A

### HPE Nimble Storage Secondary Flash Arrays – Controller Upgrades

Use the upgrade to convert a previously existing SF100 to an SF300.

**NOTE:** Only available to the SF100.

<b>Controller Upgrade</b>	HPE Nimble Storage SF300 Secondary Flash Array Dual Controller Field Upgrade	Q8C96A
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### Step 2 – Choose Head HDD Capacity

HPE Nimble Storage Secondary Flash Arrays come with (21) LFF Hard Drives included as standard and supports (3) Dual Flash Carriers with SFF Solid State Drives. The configurations below include three SFF SSDs and accept one optional Flash Upgrade Kit to increase the Flash Cache (except for the HPE Nimble Storage SF300 Secondary Flash Array with 210TB raw capacity). Additional capacity can be added by connecting expansion shelves to the base array.

#### Head HDD Capacity

HPE Nimble Storage CS/SF Hybrid Array 21x1TB HDD Bundle (NOT AVAILABLE FOR THE SF300)	Q8B68A
HPE Nimble Storage CS/SF Hybrid Array 21x2TB HDD Bundle	Q8B69A
HPE Nimble Storage CS/SF Hybrid Array 21x4TB HDD Bundle	Q8B55A
HPE Nimble Storage CS/SF Hybrid Array 21x6TB HDD Bundle	Q8B56A
HPE Nimble Storage CS/SF Hybrid Array 21x10TB HDD Bundle (NOT AVAILABLE FOR THE SF100)	Q8B57A

### Step 3 – Choose Head SSD Cache Capacity

ONE or TWO of the following options can be selected. The two options must have different capacities, unless they are both the highest capacity options:

HPE Nimble Storage CS/SF Hybrid Array 3x480GB Cache Bundle (NOT AVAILABLE FOR SF300)	Q8B81A
HPE Nimble Storage CS/SF Hybrid Array 3x960GB Cache Bundle	Q8B62A

## Technical Specifications

HPE Nimble Storage CS/SF Hybrid Array 3x1.92TB Cache Bundle	Q8B64A
HPE Nimble Storage CS/SF Hybrid Array 3x3.84TB Cache Bundle	Q8B66A
HPE Nimble Storage SF Hybrid Array 2x3.84TB and 1.92TB Cache Bundle	Q8B65A

## Head SSD Cache Upgrade Option

HPE Nimble Storage CS/SF Hybrid Array 3x480GB Cache Field Upgrade	Q8D14A
HPE Nimble Storage CS/SF Hybrid Array 3x960GB Cache Field Upgrade	Q8C99A
HPE Nimble Storage CS/SF Hybrid Array 3x1.92TB Cache Field Upgrade	Q8D00A
HPE Nimble Storage CS/SF Hybrid Array 3x3.84TB Cache Field Upgrade	Q8D01A
HPE Nimble Storage SF Hybrid Array 2x3.84TB and 1.92TB Cache Field Upgrade	Q8C47A

## Step 4 – Choose Head Networking Option

### Head Networking Options

Only ONE of the following options can be selected:

<b>2x default on-board 10GbT ports</b>	<b>N/A</b>
HPE Nimble Storage 2x1GbE 2-port Adapter Field Upgrade	Q8C64A
HPE Nimble Storage 4x1GbE 2-port Adapter Kit	Q8B85A
HPE Nimble Storage 2x10GBASE-T 2-port Adapter Kit	Q8B86A
HPE Nimble Storage 4x10GBASE-T 2-port Adapter Kit	Q8B87A
HPE Nimble Storage 6x10GBASE-T 2-port Adapter Kit (NOT AVAILABLE FOR THE SF100)	Q8C02A
HPE Nimble Storage 2x10GbE 2-port Adapter Field Upgrade	Q8C63A
HPE Nimble Storage 4x10GbE 2-port Adapter Kit	Q8B89A
HPE Nimble Storage 6x10GbE 2-port Adapter Kit (NOT AVAILABLE FOR THE SF100)	Q8C01A
HPE Nimble Storage 2x16Gb Fibre Channel 2-port Adapter Field Upgrade	Q8C65A
HPE Nimble Storage 4x16Gb Fibre Channel 2-port Adapter Kit	Q8B91A
HPE Nimble Storage 6x16Gb Fibre Channel 2-port Adapter Kit (NOT AVAILABLE FOR THE SF100)	Q8B92A
HPE Nimble Storage 2x10GbE 2-port and 2x16Gb Fibre Channel 2-port Adapter Kit	Q8B95A
HPE Nimble Storage 2x10GbE 2-port and 4x16Gb Fibre Channel 2-port Adapter Kit	Q8B96A
HPE Nimble Storage 2x10GBASE-T 2-port and 2x16Gb Fibre Channel 2-port Adapter Kit	Q8B93A
HPE Nimble Storage 2x10GBASE-T 2-port and 4x16Gb Fibre Channel 2-port Adapter Kit	Q8B94A
HPE Nimble Storage 4x10GbE 2-port and 2x16Gb Fibre Channel 2-port Adapter Kit	Q8B98A
HPE Nimble Storage 4x10GBASE-T 2-port and 2x16Gb Fibre Channel 2-port Adapter Kit	Q8B97A
HPE Nimble Storage 2x1GbE 2-port and 2x10GBASE-T 2-port Adapter Kit	Q8B99A
HPE Nimble Storage 2x1GbE 2-port and 4x10GBASE-T 2-port Adapter Kit	Q8C00A
HPE Nimble Storage 2x1GbE 4-port Adapter Kit	Q8C09A
HPE Nimble Storage 2x16Gb Fibre Channel 4-port Adapter Kit	Q8C03A
HPE Nimble Storage 4x16Gb Fibre Channel 4-port Adapter Kit	Q8C04A
HPE Nimble Storage 6x16Gb Fibre Channel 4-port Adapter Kit	Q8C05A
HPE Nimble Storage 2x10GbE 2-port and 4x16Gb Fibre Channel 4-port Adapter Kit	Q8C06A
HPE Nimble Storage 2x10GBASE-T 2-port and 4x16Gb Fibre Channel 4-port Adapter Kit	Q8C10A
HPE Nimble Storage 4x10GbE 2-port and 2x16Gb Fibre Channel 4-port Adapter Kit	Q8C07A
HPE Nimble Storage 2x10GbE 2-port and 2x16Gb FC 4-port and 2x16Gb FC 2-port Adapter Kit	Q8C08A

## Technical Specifications

### Head Network Upgrade Options

Only ONE of the following options can be selected:

HPE Nimble Storage 2x1GbE 2-port Adapter Field Upgrade	Q8C64A
HPE Nimble Storage 2x10GBASE-T 2-port Adapter Field Upgrade	Q8C62A
HPE Nimble Storage 2x10GbE 2-port Adapter Field Upgrade	Q8C63A
HPE Nimble Storage 2x16Gb Fibre Channel 2-port Adapter Field Upgrade	Q8C65A
HPE Nimble Storage 2x1GbE 4-port Adapter Field Upgrade	Q8C67A
HPE Nimble Storage 2x16Gb Fibre Channel 4-port Adapter Field Upgrade	Q8C66A
HPE Nimble Storage 2x10GbE 4-port Adapter Field Upgrade	Q8C68A
HPE Nimble Storage 2x10GBASE-T 4-port Adapter Field Upgrade	Q8C69A

### Step 5 – Add Expansion Shelves

HPE Nimble Storage Secondary Flash Arrays accept additional capacity to an existing base array by connecting expansion shelves. HPE Nimble Storage SF Expansion Shelves come with (2) C13/C14 power cords and (2) 1m 12Gb/s SAS cables.

### SF-ES2 Expansion Shelves

Mix any of the following options up to platform max.

**NOTE:** SF100 supports up to 126 GB raw capacity and SF300 supports up to 252 TB raw capacity. Both arrays can be connected to up to two (2) Expansion Shelves, within maximum capacity limits of the array.

HPE Nimble Storage SF-ES2 Hybrid 21x1TB HDD 3x480GB Cache Expansion Shelf (NOT AVAILABLE FOR THE SF300)	Q8B43A
HPE Nimble Storage SF-ES2 Hybrid 21x2TB HDD 3x960GB Cache Expansion Shelf	Q8B44A
HPE Nimble Storage SF-ES2 Hybrid 21x4TB HDD 3x1.92TB Cache Expansion Shelf	Q8B45A
HPE Nimble Storage SF-ES2 Hybrid 21x6TB HDD 2x3.84TB and 1.92TB Cache Expansion Shelf (NOT AVAILABLE FOR THE SF100)	Q8B46A
HPE Nimble Storage SF-ES2 Hybrid 21x10TB HDD 3x3.84TB and 3x1.92TB Cache Expansion Shelf (NOT AVAILABLE FOR THE SF100)	Q8B47A

### ES2 Optional Cache for SF-ES2 Expansion Shelves Bank B

Only ONE of the following options can be selected:

HPE Nimble Storage CS/SF Hybrid ES2 Expansion Shelf 3x960GB Cache Bundle	Q8C25A
HPE Nimble Storage CS/SF Hybrid ES2 Expansion Shelf 3x1.92TB Cache Bundle	Q8C26A
HPE Nimble Storage CS/SF Hybrid ES2 Expansion Shelf 3x3.84TB Cache Bundle	Q8C28A
HPE Nimble Storage SF Hybrid ES2 Expansion Shelf 2x3.84TB and 1.92TB Cache Bundle	Q8C27A

### Cache Upgrade on SF-ES2 Expansion Shelves (Bank B only)

Only ONE of the following options can be selected:

HPE Nimble Storage CS/SF Hybrid ES2 3x960GB Cache Field Upgrade	Q8C48A
HPE Nimble Storage CS/SF Hybrid ES2 3x1.92TB Cache Field Upgrade	Q8C49A
HPE Nimble Storage SF Hybrid ES2 2x3.84TB and 1.92TB Cache Field Upgrade	Q8C51A
HPE Nimble Storage CS/SF Hybrid ES2 3x3.84TB Cache Field Upgrade	Q8C50A

## Technical Specifications

### Installation Services

Installation Services are intended to guide you from start to finish and to help make your installation a success. Our engagement includes the following phases:

#### Array Installation

- Inventory and verify HPE Nimble Storage equipment against the sales order
- Physically rack and cable all HPE Nimble Storage equipment, including connecting network cables provided by the customer
- Conduct power-on tests and verify operation
- Add the array to an existing HPE Nimble Storage Group, if applicable
- Configure array's basic management, monitoring, & reporting capabilities
- Configure array for additional data networks / SAN connectivity as needed
- Upgrade the array to the latest recommended HPE Nimble OS version

**NOTE:** Installation services are optional.

HPE Nimble Storage Upgrade Kit/Expansion Shelf Installation Service	Q2R14A
HPE Nimble Storage New Array Installation Service	Q2R15A
HPE Nimble Storage New Array Remote Installation Service	Q2R16A
HPE Nimble Storage Additional Array Installation Service	Q2R17A

### Racks

HPE Nimble Storage arrays and expansion shelves are compatible with industry standard 4-post EIA 19 inch racks with square mounting holes, including HPE 36U, 42U and 47U Enterprise Shock Racks.

For more information on the HPE rack offerings, please see the following URL:

<http://h18004.www1.hpe.com/products/servers/platforms/rackandpower.html>

For more information on rack options, see:

<http://www.hpe.com/products/rackoptions>

For more information on PDUs, see:

<http://h18004.www1.hpe.com/products/servers/proliantstorage/power-protection/pdu.html>



## Technical Specifications

### Required and additional power cords

HPE Nimble Storage arrays and expansion shelves do not ship with any power cords by default and require a minimum of 2 power cords per system. Please ensure these are selected at time of quoting. A pair of C13/C14 power cords are required when connecting base arrays or expansion shelves to Rack-Mounted Power Distribution Units (PDU). A pair of country/region specific power cords are required when connecting base arrays or expansion shelves to standard office wall power outlets.

#### Description

	<b>SKU</b>
HPE NS AS 3112 to C13 AU Power Cord	Q8F89A
HPE NS WS-010A to C13 EU Power Cord	Q8F90A
HPE NS BS 1363 UK10 to C13 UK Power Cord	Q8F91A
HPE NS NEMA 5-15P to C13 US Power Cord	Q8F92A
HPE NS GB2099 to C13 CN Power Cord	Q8F93A
HPE NS WS-010A to C13 KR Power Cord	Q8F94A
HPE NS JIS 8303 to C13 TW/JP Power Cord	Q8F95A
HPE NS NEMA 6-15P to C13 JP Power Cord	Q8F96A
HPE NS C13/C14 PDU Base Array Power Cord	Q8F97A
HPE NS PE361L to LS-60 IN Power Cord	Q8G57A
HPE NS WS-016 to C13 ZA Power Cord	Q8G58A
HPE NS SI-32 to C13 IL Power Cord	Q8G59A
HPE NS CEI 23-16 to C13 IT Power Cord	Q8G60A

## Technical Specifications

Physical Dimensions	Width in/mm	Depth in/mm	Height in/mm/U	Weight lb/kg
HPE Nimble Storage Secondary Flash Arrays	17.5/445	26.5/673	7/175/4	105/48
HPE Nimble Storage SF Series Expansion Shelves	17.5/445	26.5/673	7/175/4	90/41
HPE Nimble Storage SF Series Flash Upgrade Kits	12/305	12/305	7/175	3/2

Power Requirements	HPE Nimble Storage SF100	HPE Nimble Storage SF300
Input Voltage	100 to 240 VAC (50 to 60 Hz)	
AC PCM option		
Max power requirements (Watts/kVA)	700 W / 0.78 kVA	800 W / 0.89 kVA
Thermal (BTU)	2293 BTU	2620 BTU

### Environmental Specifications<sup>4</sup>

Operating Temperature	10 - 35° C (50 - 95° F) Reduce rating by 1° F for each 1000 ft altitude (1.8° C/1,000 m)
Shipping Temperature	0° C - 40° C (32° F - 104° F) Maximum rate of change is 20°C/hr (36°F/hr)
Operating Altitude (ft/m) max.	10,000 ft / 3,048 m
Shipping Altitude (ft/m) max.	40,000ft/ 12,192 m
Humidity	8 - 90%, non-condensing
Shipping Humidity	5 - 95%, non-condensing
Operating Vibration	0.25 G, Sine 5 - 200 Hz (approx. 15 min/axis); 0.4 GRMS, Random 5 - 200 Hz (approx. 60 min/axis)
Non-operating Vibration	0.5 G, Sine 5 - 200 Hz (approx. 15 min/axis); 0.98 GRMS, Random 5 - 500Hz (approximate 30 min/axis)
Operating Shock	20 G, 2.5ms, half-sine, one shock on each side
Non-operating Shock	20 G, 10ms, square wave, one shock on each side

## Technical Specifications

Electromagnetic Compatibility	Subpart B of Part 15 of FCC Rules for Class A digital devices ICES-003, Issue 6, dated January 2016 (Class A) VCCI V-3: April 2014 (Class A) EN 55022:2010 CISPR 22:2008 AS/NZS CISPR 22:2009 +A1:2010 EN55032:2012 CISPR 32:2012 EN 55024:2010 CISPR 24:2010 +A1:2015 TCVN 7189:2009 NBTC TS 3001-2555 TP TC 020/2011		
Acoustics Sound pressure level measured per ISO 7779 specs during normal operating fan	Fan Speed (RPM)	Standard Speed (3540 RPM)	Full Speed (13000 RPM)
	Front	65.5	72.0
	Back	71.2	75.8
	Left	65.6	69.0
	Right	65.6	70.7
Safety	EN60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 EN60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 UL/IEC 60960-1 2nd Ed. Am1 + Am2 CNS14336-1 ('99) CNS13438 ('95) NOM-019-SCFI-1998 NBTC TS 4001-2550 TP TC 004/2011 IS 13252 (PART 1):2010 +A1:2013 + A2:2-15 SANS IEC 60950-1		

**NOTE:** <sup>4</sup> Specifications are subject to change without notice.

Certifications / Markings	UL cUL CE FCC Class A IC Class A VCCI Class A RCM BSMI Class A KC CCC Exemption	NOM MoEc NBTC SDoC CITC/CoC* EAC BIS LOA (S. Africa) RoHS 2011/65/EU, EN50581:2012 WEEE
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## Summary of Changes

Date	Version History	Action	Description of Change
13-Nov-2017	From Version 3 to 4	Changed	Overview and Configuration Information were revised.
06-Nov-2017	From Version 2 to 3	Changed	Changes made to the entire document.
12-Jun-2017	From Version 1 to 2	Changed	Detail on included power cords and SAS cables.
5-Jun-2017	Version 1	Created	Created first version, including SF100 and SF300.



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a00008275enw- 15934 - Worldwide – V4 – 13-November-2017