

# PS SERIES SATA ARRAYS

## INTELLIGENT iSCSI STORAGE



SATA	PS50E	PS70E	PS100E	PS300E	PS400E
<b>TECHNICAL HIGHLIGHTS</b>					
Volumes	Up to 1,024				
Snapshots	512 per volume / up to 10,000 total				
Hosts accessing group	Up to 512				
Host interface	Any standards-compliant iSCSI initiator				
Controllers	1	1	2	2	2
Disk capacity*	250 GB; 7,200 RPM SATA II		250 GB; 7,200 RPM SATA II	500 GB; 7,200 RPM SATA II	750 GB; 7,200 RPM SATA II
System capacity**	1.75 TB	3.5 TB	3.5 TB	7 TB	10.5 TB
Number of drives	7 (supports up to 14)	14	14	14	14
Memory (battery-backed)	1 GB		2 GB		
Gb network interfaces	3				
Copper (standard)	3				
Optical (SFP purchased separately)	3				
Sustained system bandwidth	Up to 140 MBps	Up to 300 MBps			
Operating systems supported	Windows® 2000, Windows Server 2003, AIX®, HP-UX, Mac OS® X, VMware® ESX				
Upgrade option	PS70E or PS100E	PS100E, PS300E, or PS400E	PS300E or PS400E	PS400E	
Expansion option	Can be combined with other PS systems online				
<b>RAID SUPPORT</b>					
Automatic RAID 5, RAID 10 and RAID 50 configuration					
<b>RELIABILITY</b>					
Redundant, hot-swappable controllers, power supplies/cooling fans, and disks					
Write-back cache with 72-hour battery backup			Mirrored write-back cache with 72-hour battery backup		
Individual disk drive slot power control					
<b>ENCLOSURE MONITORING SYSTEM</b>					
Automatic spare configuration and utilization					
SMART					
Automatic bad block replacement					
Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives					

### PS STORAGE STACK



PS Series storage arrays are stackable as multi-array system configurations for customized performance and capacity\*\*\*

### ABOUT EQUALLOGIC:

EqualLogic makes data storage systems that radically simplify the way mid-size and large businesses store and protect information. EqualLogic's award-winning PS Series storage area network (SAN) solution provides sophisticated management capabilities that reduce the time and money IT staff spend on storage.

### DATA SERVICES INCLUDE:

- Auto-Replication
- Writeable Snapshots
- Automatic Load Balancing
- Auto-Snapshot Manager<sup>1</sup>
- Auto-Stat Disk Monitoring System
- Volume Consistency Sets
- Multi-Path I/O<sup>2</sup>
- PS Group Manager
- Pooled and Tiered Storage
- RAID Load Balancing
- Snapshot and Auto-Replication Scheduler
- E-mail Home
- Roles-based Administration
- Storage Virtualization
- Thin Provisioning
- Volume Cloning
- Volume Management
- Volume Snapshot

# PRODUCT SPECIFICATIONS

<b>MANAGEMENT INTERFACES</b>	SNMP, telnet, SSH, HTTP, Web (SSL), host scripting
	Serial console
	Multi-administrator support
<b>SECURITY</b>	CHAP authentication
	Access control for iSCSI and management interfaces
<b>NOTIFICATION METHODS</b>	SNMP traps, e-mail, syslog
<b>POWER</b>	AC voltage: 100-240 VAC ±10% single phase
	Frequency: 47-63 Hz
	Power factor: .90 (minimum)
	Power consumption: 400 VA (maximum)
	Heat dissipation: 1,200 BTU per hour (maximum) Power supplies: Dual 400 W
<b>ENVIRONMENTAL</b>	Temperature range: 5 to 40 °C / 41 to 104 °F
	Storage temperature: -30 to 60 °C / -22 to 140 °F
	Altitude: -70 to 3,048 m operational / -305 to 12,192 m non-operational
	Relative humidity: 20 to 80% non-condensing operational / 5 to 95% non-condensing non-operational
	Shock: 30 G 2 ms operational / 30 g 10 ms 1/2 sin non-operational
	Vibration: .1 G @ 10 to 100 Hz operational / Random 1.04 grms 2-200 Hz non-operational Acoustics: Sound Power Operating: <5.8 db LpA @ 20 °C
<b>PHYSICAL</b>	Height: 13.33 cm / 5.25 in / 3 EIA units
	Width: 44.77 cm / 17.625 in / 1EC Rack Compliant
	Depth: 63.5 cm / 25 in
	Weight: 36.74 kg / 81 lb (maximum configuration)
<b>AGENCY APPROVALS</b>	<b>Safety standards</b>
	UL 60950, CSA 60950, S Mark
	EN 60950 (Europe), CB Scheme
	<b>Electromagnetic Compatibility (EMC)</b>
	EN 55022 Class A, CE Mark
	EN 55024 Immunity, ITE
	FCC Class A, VCCI Class A (Japan); AN/NZS 3548 Class A (Australia/New Zealand); BSMI (Taiwan)
	MIC (Korea) C-Tick compliance N4292
<b>CUSTOMER CARE SERVICES PROGRAMS</b>	<b>Complete Care Plus</b> 24-hour priority online/telephone access, software maintenance and updates, 4-hour onsite advance hardware replacement; Secure Site option available for non-return of drives
	<b>Complete Care</b> 24-hour priority online/telephone access, software maintenance and updates, next business day advance hardware replacement; Secure Site option available for non-return of drives
	<b>Limited Warranty</b> 2 years telephone support (business hours 9AM-5PM EDT/EST USA); 1 year software maintenance and updates; 2 years hardware (return to factory, first 90 days advance replacement, pass through of drive manufacturer warranty)

**FOOTNOTES**

\*1 GB = 1,000,000,000 bytes, useable space may be less

<sup>1</sup>Qualified for Microsoft Windows Server 2003

\*\*1 TB = 1,000,000,000,000 bytes, useable space may be less

<sup>2</sup>Qualified for Microsoft Windows Server 2000 and 2003, VMware, Linux and Sun Solaris Operating Systems

\*\*\*Rack not included



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